

DRAFT

APPENDICES

Appendix A:  
Roadway Segments Considered in Analysis and Traffic Data

DRAFT

## Roadway Segments Considered in the Assessment

The dispersion modeling analysis considered a large number of existing roads and roadway segments, in addition to new, or modified roads that will be constructed through implementation of the alternatives. These are as follows:

### Roads North of EC Row Expressway

Huron Church Road and all major intersecting roads along Huron Church were considered from the EC Row Expressway up to Riverside Drive. This includes the existing Ambassador Plaza, and local roads in the immediate vicinity of the Plaza. The roads that were included in the assessment are listed below:

- Riverside Dr.
- University Ave.
- Wyandotte St.
- Patricia Rd. / Union St. / Sunset Ave.
- College Ave.
- Millen St.
- Girardot St.
- Tecumseh Rd.
- Dorchester Rd.
- Prince / Totten Rd.
- Malden Rd.
- Industrial Dr.

In addition, all traffic on the Canadian side of the Ambassador Bridge and through the Ambassador Plaza was included in the assessment.

### Roads South of EC Row Expressway

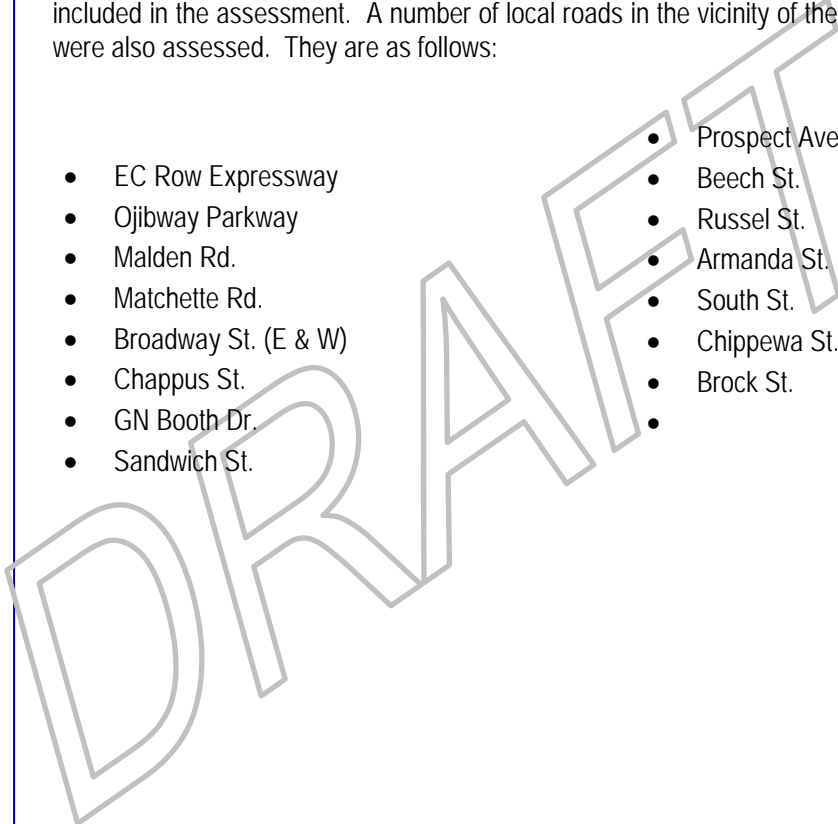
Huron Church Road, Talbot Road/Highway 3 and all major intersections south of EC Row Expressway along the Huron Church / Highway 3 corridor were also included in the analysis. These are as follows:

- Spring Garden Rd. /  
Labelle St.
- Lambton St. / Grand  
Marais Rd.
- Pulford St.
- Reddock Ave
- Todd Ln / Cabana Rd.
- Huron Line
- Geraedt's Rd.
- Cousineau Rd. /  
Sandwich Pkwy West
- Montgomery Dr.
- Surrey Dr.
- Grosvenor Rd.
- Howard Ave.
- Outer Dr.
- 6<sup>th</sup> Concession
- Roseland Dr.
- Eastbourne Ave.
- North Talbot Rd.
- Tuson Way

### Roads in the Vicinity of Ojibway Parkway

The EC Row Expressway and Ojibway Parkway also formed part of the road network included in the assessment. A number of local roads in the vicinity of these major arteries were also assessed. They are as follows:

- EC Row Expressway
- Ojibway Parkway
- Malden Rd.
- Matchette Rd.
- Broadway St. (E & W)
- Chappus St.
- GN Booth Dr.
- Sandwich St.
- Prospect Ave.
- Beech St.
- Russel St.
- Armanda St.
- South St.
- Chippewa St.
- Brock St.
- 



In order to represent each roadway in the air dispersion model, the geographic coordinates of the first and last point of each roadway segment (which were often comprised of several links) for each traffic flow direction had to be coded into the model input files. This was done using ArcView GIS in combination with digital orthographic aerial photography and geo-referenced AutoCAD drawings of each alternative to manually select the start and end points of each of the over 700 roadway links included in the modeling. It is important to note that the roadway links for each connecting route alternative differed, due to variations in route alignments, locations of service roads, etc. Thus, the coordinates for each connecting route alternative had to be coded manually for essentially all of the segments included in the models.

A map showing the network of existing roadways included in the analysis is shown in Figure A.1.

FIGURE A.1 - MODELLED ROAD NETWORK – EXISTING ROADWAYS



**TABLE A-1 HOURLY TRAFFIC PROFILES USED IN MODELING**

Period Starting	Profile 1		Profile 2		Profile 3		Profile 4	
	Outbound	Inbound	Outbound	Inbound	Outbound	Inbound	Outbound	Inbound
12:00 AM	47	27	22	22	8	9	29	20
01:00 AM	33	21	17	16	4	4	26	15
02:00 AM	33	19	14	15	3	3	24	14
03:00 AM	32	19	14	12	2	2	26	11
04:00 AM	41	18	18	12	2	3	34	12
05:00 AM	65	19	37	16	8	8	54	14
06:00 AM	135	28	92	29	29	21	114	24
07:00 AM	157	30	124	46	50	43	152	34
08:00 AM	175	38	149	53	81	88	139	53
09:00 AM	141	43	103	44	57	68	102	52
10:00 AM	114	48	82	46	67	68	100	56
11:00 AM	111	57	85	56	81	80	99	63
12:00 PM	112	58	87	58	81	79	100	64
01:00 PM	114	61	85	59	82	74	96	65
02:00 PM	117	69	95	68	89	84	102	74
03:00 PM	108	88	104	94	102	95	111	89
04:00 PM	100	100	100	100	100	100	100	100
05:00 PM	113	96	99	100	99	102	94	110
06:00 PM	116	82	92	75	91	96	98	98
07:00 PM	86	65	71	58	73	71	78	79
08:00 PM	94	67	63	59	61	58	74	65
09:00 PM	84	57	53	50	50	40	64	51
10:00 PM	75	48	50	42	27	29	52	44
11:00 PM	62	38	37	36	18	18	39	35
	3461		2856		2506		3151	

- Profile 1: Huron Church North of E.C. Row in Base Cases
- Profile 2: Huron Church South of E.C. Row in Base Cases and Freeway in Alternatives 1-3
- Profile 3: All other Streets in Base Cases and Alternatives 1-3
- Profile 4: Huron Church North of E.C. Row and E.C. Row in Alternatives 1-3

Profiles have been standardized to modelled p.m. peak hour 4:00 to 5:00 p.m.  
The modelled a.m. peak hour is between 7:00 and 8:00 a.m.



TABLE A-1 CONT'D.

Profile 1	Profile 2	Profile 3	Profile 4
0.021	0.015	0.007	0.016
0.016	0.011	0.003	0.013
0.015	0.010	0.002	0.012
0.015	0.009	0.002	0.012
0.017	0.010	0.002	0.014
0.024	0.018	0.006	0.022
0.047	0.042	0.020	0.044
0.054	0.060	0.037	0.059
0.061	0.071	0.068	0.061
0.053	0.052	0.050	0.049
0.047	0.045	0.054	0.050
0.048	0.049	0.064	0.051
0.049	0.051	0.064	0.052
0.050	0.050	0.062	0.051
0.054	0.057	0.069	0.056
0.057	0.070	0.078	0.064
0.058	0.070	0.080	0.063
0.061	0.069	0.080	0.065
0.057	0.058	0.074	0.062
0.044	0.045	0.057	0.050
0.047	0.043	0.047	0.044
0.041	0.036	0.036	0.037
0.036	0.032	0.022	0.030
0.029	0.025	0.014	0.023

**TABLE A-2 24-HOUR ANNUAL AVERAGE DAILY TRAFFIC (AADT) FOR  
ALTERNATIVE 1A – YEAR 2015**

LOCATION	SECTION		24 Hour AADT												
			Total Cars and Trucks		Local Cars		Local Trucks		International Cars		International Trucks				
			NB / WB	SB / EB	NB / WB	SB / EB	NB / WB	SB / EB	NB / WB	SB / EB	NB / WB	SB / EB			
	FROM	TO													
HC Road	Riverside	University	6903	5381	6720	5292	179	85	3	1	0	0	3		
	University	Wyandotte	3208	3874	3015	3508	91	119	55	244	47	3			
	Wyandotte	AMB Off Ramp	2263	3076	2228	2903	0	0	34	174	0	0			
	AMB Off Ramp	College	17476	6233	8505	6127	234	96	6342	1	2395	0			
	College St	Girardot St	25318	24056	18099	16524	543	480	6474	4536	203	2515			
	Girardot St	Tecumseh Rd	24203	23788	17739	17038	629	558	5654	3842	181	2350			
	Tecumseh Rd	Dorchester St	27458	27231	21099	20908	769	701	5407	3450	183	2172			
	Dorchester St	Prince Rd/Totten St	27503	28501	21746	22719	677	642	4927	3158	158	1983			
	Prince Rd/Totten St	Malden Rd	30089	31859	24345	25966	759	747	4841	3202	174	1950			
	Malden Rd	Industrial Rd	24695	26711	19089	20887	575	581	5025	3362	7	1881			
	Industrial Rd	EC Row N. Ramp Terminal	27133	28866	21649	23194	656	661	4828	3102	0	1910			
	EC Row N. Ramp Terminal	EC Row S. Ramp Terminal	20198	34938	15483	29452	441	749	4275	3003	0	1734			
	EC Row S. Ramp Terminal	S. of EC Row S. Ramp Terminal	24716	26836	20217	22131	557	479	3942	2688	0	1538			
	S Service Rd	N. of Lambton St	Todd Ln/Cabana Rd	0	10483	n/a	9712	n/a	159	n/a	612	n/a	0		
Lambton St		St Clair College	0	9429	n/a	9906	n/a	123	n/a	301	n/a	0			
Todd Ln/Cabana Rd		Cousineau Dr	0	16021	n/a	15950	n/a	71	n/a	0	n/a	0			
St Clair College		Howard Ave	0	9288	n/a	7675	n/a	90	n/a	1433	n/a	89			
Cousineau Dr		Howard Ave	0	6287	n/a	5737	n/a	90	n/a	356	n/a	104			
E. of Howard Ave		Howard Ave	0	12060	n/a	11822	n/a	238	n/a	0	n/a	0			
N Service Rd	N. of Labelle St	Grand Marais Rd Ramp	25245	0	20908	n/a	472	n/a	3865	n/a	0	n/a			
	Labelle St	Pulford St	24277	0	22254	n/a	307	n/a	1717	n/a	0	n/a			
	Grand Marais Rd Ramp	Todd Ln/Cabana Rd	12425	0	11288	n/a	153	n/a	984	n/a	0	n/a			
	Pulford St	St Clair College	12314	0	11286	n/a	163	n/a	865	n/a	0	n/a			
	Todd Ln/Cabana Rd	Cousineau Dr	6976	0	6976	n/a	0	n/a	0	n/a	0	n/a			
	St Clair College	Howard Ave	14452	0	11636	n/a	74	n/a	2721	n/a	0	n/a			
	Cousineau Dr	Howard Ave	7417	0	6689	n/a	179	n/a	548	n/a	0	n/a			
	E. of Howard Ave	Howard Ave	13630	0	13344	n/a	286	n/a	0	n/a	0	n/a			
Ojibway Pwy	EC Row Expressway	GN Booth Dr	10180	10555	9927	9984	136	134	27	14	91	422			
	GN Booth Dr	Sandwich St	10116	10431	9862	9851	135	133	27	15	92	433			
	Sandwich St	Prospect Ave	9479	9729	9356	9615	74	78	49	37	0	0			
	N. of Prospect Ave	Prospect Ave	9416	9510	9293	9398	74	76	49	36	0	0			
CROSSING ROADS			0	0											
Wyandotte	W of Huron Church	W of Huron Church	5210	4912	4850	4479	0	0	359	433	0	0			
	E of Huron Church	E of Huron Church	3635	5183	2855	4105	21	142	716	937	43	0			
University	W of Huron Church	W of Huron Church	1266	1188	1266	1188	0	0	0	0	0	0			
	E of Huron Church	E of Huron Church	2136	2122	1944	1963	119	91	70	21	3	47			
Riverside	W of Huron Church	W of Huron Church	3428	3580	3428	3580	0	0	0	0	0	0			
	E of Huron Church	E of Huron Church	6712	5703	6538	5669	0	0	174	34	0	0			
AMB Off Ramp	E of Huron Church	E of Huron Church	0	10153	0	1363	0	56	0	6339	0	2395			
AMB On Ramp	E of Huron Church	E of Huron Church	6407	0	303	0	12	0	5917	0	174	0			
Patricia	AMB	Wyandotte	4105	5097	541	1360	22	54	3371	3416	171	267			
College St	E. of HC Road	E. of HC Road	6514	6360	6352	5557	158	125	3	536	0	142			
	W. of HC Road	W. of HC Road	1861	809	1639	758	0	0	222	51	0	0			
Girardot St	E. of HC Road	E. of HC Road	1127	1169	962	1169	0	0	165	0	0	0			
	W. of HC Road	W. of HC Road	2346	2275	2258	2224	38	22	50	30	0	0			
Tecumseh Rd	E. of HC Road	E. of HC Road	5829	6836	5496	6181	132	145	200	357	0	153			
	W. of HC Road	W. of HC Road	6613	6995	6468	6877	0	0	146	118	0	0			
Dorchester St	E. of HC Road	E. of HC Road	1684	1556	1438	1556	0	0	247	0	0	0			
	W. of HC Road	W. of HC Road	1419	807	1371	789	23	9	24	10	0	0			
Prince Rd/Totten St	E. of HC Road	E. of HC Road	2075	2907	1999	2784	0	0	76	124	0	0			
	W. of HC Road	W. of HC Road	4784	5176	4709	5101	0	0	75	75	0	0			
Malden Rd	E. of HC Road	E. of HC Road	1376	1126	1173	927	0	0	203	199	0	0			
	W. of HC Road	W. of HC Road	7884	8413	6973	7418	371	367	390	86	151	542			
Industrial Rd	E. of HC Road	E. of HC Road	3616	3425	3397	3178	56	58	156	174	7	16			
	W. of HC Road	W. of HC Road	4072	3169	3912	2779	159	193	0	0	0	198			
EC Row N. Ramp Terminal	E. of HC Road (W-N/S Off Ramp & N-W On Ramp)	E. of HC Road (W-N/S Off Ramp & N-W On Ramp)	14179	2041	12487	1842	314	0	1377	199	0	0			
	W. of HC Road (S-W On Ramp)	W. of HC Road (S-W On Ramp)	609	0	414	n/a	14	n/a	49	n/a	133	n/a			
EC Row S. Ramp Terminal	E. of HC Road (N-E On Ramp)	E. of HC Road (N-E On Ramp)	0	7407	n/a	7295	n/a	113	n/a	0	n/a	0	0		
	W. of HC Road (S-E On Ramp & E-N/S Off Ramp)	W. of HC Road (S-E On Ramp & E-N/S Off Ramp)	8624	2901	7589	2479	257	83	499	338	279	0			
Grand Marais Rd Ramp	E. of N. Service Rd	E. of N. Service Rd	2073	715	1878	715	0	0	196	0	0	0			
	E. of N. Service Rd	E. of N. Service Rd	4896	1877	4640	1680	0	0	256	197	0	0			
Fazio Dr	W. of S. Service Rd	W. of S. Service Rd	3550	2411	3421	2355	58	28	71	28	0	0			
	E. of N. Service Rd	E. of N. Service Rd	493	1011	419	1011	0	0	74	0	0	0			
Pulford St	E. of N. Service Rd	E. of N. Service Rd	8970	7585	8882	7537	0	0	87	49	0	0			
	between N. and S. Service Rd	between N. and S. Service Rd	9971	13458	9971	12816	0	106	0	536	0	0			
Todd Ln/Cabana Rd	between S. Service Rd and Huron Church Line	between S. Service Rd and Huron Church Line	13705	14201	13430	13675	85	100	190	426	0	0			
	W. of Huron Church Line	W. of Huron Church Line	8686	8729	8682	8725	0	0	4	4	0	0			
St Clair College	E. of N. Service Rd	E. of N. Service Rd	2969	8656	2873	8387	0	0	95	268	0	0			
	between N. and S. Service Rd	between N. and S. Service Rd	2255	2572	2255	2389	0	0	0	183	0	0			
Cousineau Dr	E. of N. Service Rd	E. of N. Service Rd	5380	4408	4042	3492	0	0	1338	916	0	0			
	between N. and S. Service Rd	between N. and S. Service Rd	7569	6705	5520	6599	4	106	2044	0	0	0			
Howard Ave	W. of S. Service Rd	W. of S. Service Rd	9746	6412	8457	5507	17	114	1272	791	0	0			
	E. of N. Service Rd	E. of N. Service Rd	7718	8482	7588	8318	127	160	2	4	0	0			
EC Row Expressway	between N. and S. Service Rd	between N. and S. Service Rd	11604	7215	11288	7067	199	147	116	1	0	0			
	W. of S. Service Rd	W. of S. Service Rd	11359	13477	11047	13167	243	277	69	32	0	0			
EC Row Expressway	E. of Ojibway Pwy	E. of Ojibway Pwy	13304	8173	12917	7927	311	246	17	0	58	0			
	W. of Ojibway Pwy	W. of Ojibway Pwy	20534	11155	16503	10907	224	248	3710	0	97	0			
	E. of Huron Church Rd	E. of Huron Church Rd	34989	43027	31717	37465	673	793	2222	3542	377	1227			
	At Malden Rd	At Malden Rd	23221	29489	21261	25093	402	475	1062	3032	497	889			
GN Booth Dr	W. of Matchette	W. of Matchette	15619	8173	13990	7927	338	246	872	0	418	0			
	W. of Ojibway Pwy	W. of Ojibway Pwy	357	461	346	450	6	7	4	4	0	0			
	Sandwich St	W. of Ojibway Pwy	1533	1388	1360	1261	148	91	25	35	0	0			
	Prospect Ave	W. of Ojibway Pwy	342	437	332	427	6	4	4	6	0	0			

TABLE A-2 CONT'D.

HIGHWAY 401 Mainline													
S. of Hwy 3 merge/split		19972	21529	11333	10718	322	248	3131	3025	5185	7538		
N. of Howard Ave		19026	21477	10240	10473	316	255	3577	3490	4893	7259		
At Grand Marais Rd		16155	24917	8788	12349	292	305	3361	4476	3713	7787		
E. of Malden Rd		7502	13505	1749	5353	57	218	1572	2430	4123	5509		
To/From Canadian Plaza		10035	18007	0	3	2	4	4148	8568	5884	9432		
HIGHWAY 401 Ramps													
Hwy 3 merge/split		0	0										
401 NB Off Ramp		9970	0	8251	0	182	0	1114	0	423	0		
401 NB On Ramp		9124	0	8951	0	173	0	0	0	0	0		
401 SB Off Ramp		0	9491	0	9303	0	188	0	0	0	0		
401 SB On Ramp		0	9574	0	7278	0	186	0	1702	0	408		
At St. Clair College		0	0										
401 NB Off Ramp		6964	0	6964	0	0	0	0	0	0	0		
401 NB On Ramp		4318	0	3605	0	20	0	693	0	0	0		
401 SB Off Ramp		0	8288	0	6876	0	77	0	1227	0	108		
401 SB On Ramp		0	5019	0	5001	0	18	0	0	0	0		
At Huron Church Rd		0	0										
401 NB Off Ramp		8892	0	6939	0	242	0	1712	0	0	0		
401 SB On Ramp		0	11044	0	8072	0	187	0	1668	0	1117		
At Malden Rd		0	0										
401 NB On Ramp		3176	0	2447	0	406	0	262	0	61	0		
401 SB Off Ramp		0	4140	0	2705	0	571	0	864	0	0		
Hwy 401 to EC Row Expressway		0	0										
401 SB Off Ramp		0	13343	0	9377	0	221	0	2943	0	802		
Ojibway Pkwy IC		0	0										
401 NB Off Ramp		4660	0	4197	0	463	0	0	0	0	0		
401 NB On Ramp		1503	0	0	0	0	0	1210	0	293	0		
401 SB Off Ramp		0	1091	0	122	0	8	0	961	0	0		
401 SB On Ramp		0	14959	0	14542	0	417	0	0	0	0		
EC Row Expressway to Hwy 401		0	0										
401 NB On Ramp		2083	0	0	0	0	0	1309	0	774	0		
FROM		0	0										
TO		0	0										
S. of Hwy 3 merge/split		19972	0	11333		322		3131		5185			
Hwy 3/401 NB Off Ramp		9889	0	3119		125		2475		4170			
Hwy 3/401 NB On Ramp		19026	0	10240		316		3577		4893			
St. Clair/401 NB Off Ramp		11651	0	5820		235		2491		3105			
St. Clair/401 NB On Ramp		16155	0	8788		292		3361		3713			
HC Rd/401 NB Off Ramp		7502	0	1749		57		1572		4123			
Malden/401 NB On Ramp		10678	0	4197		463		1834		4185			
Ojibway Pkwy/401 NB Off Ramp		6018	0	0		0		1834		4185			
Ojibway Pkwy/401 NB On Ramp		7521	0	0		0		3044		4477			
EC ROW to 401 NB On Ramp		10032	0	0		0		4148		5884			
Canadian Plaza		0	0										
Canadian Plaza		0	18007		3		4		8568		9432		
Ojibway/401 SB Off Ramp		0	16722		3		4		7916		8799		
Ojibway/401 SB On Ramp		0	31533		16044		572		6781		8136		
401 to EC ROW SB Off Ramp		0	18914		5089		361		4119		9345		
Malden/401 SB Off Ramp		0	14235		3207		92		3163		7772		
HC Rd/401 SB On Ramp		0	24917		12349		305		4476		7787		
St Clair/401 SB Off Ramp		0	16134		6632		205		3057		6240		
St Clair/401 SB On Ramp		0	21477		10473		255		3490		7259		
Hwy 3/401 SB Off Ramp		0	10979		5098		121		1950		3811		
Hwy 3/401 SB On Ramp		0	21529		10718		248		3025		7538		
E. of connecting ramp		4769	4265	4528	3803	0	0	241	462	0	0		
W. of connecting ramp		3659	6458	3656	5871	3	36	0	551	0	0		
Broadway Street		330	352	329	352	0	0	1	0	0	0		
Huron Church Lane		0	0										
S. of Todd Lane		9097	8914	7829	7592	197	167	843	877	227	277		
Millen		107	257	104	251	2	4	1	3	0	0		
Felix		0	0										
HC		0	0										
Chappus		9796	11386	8976	10514	254	259	567	612	0	0		
401 S. Ramp		10788	7776	9899	7169	278	179	612	428	0	0		
N. of 401 N. Ramp		8014	8481	7359	7824	206	195	450	463	0	0		
Chappus		8514	7907	8409	7804	0	0	105	103	0	0		
EC Row S. Ramp		2621	8885	2487	8793	0	0	134	92	0	0		
EC Row N. Ramp		4793	3284	4678	3199	0	0	115	85	0	0		
Carmichael													

Highway 401 Mainline Vol

**TABLE A-3 24-HOUR ANNUAL AVERAGE DAILY TRAFFIC (AADT) FOR ALTERNATIVE 1A – YEAR 2025**

LOCATION	SECTION		24 Hour AADT											
			Total Cars and Trucks		Local Cars		Local Trucks		International Cars		International Trucks			
			NB / WB	SB / EB	NB / WB	SB / EB	NB / WB	SB / EB	NB / WB	SB / EB	NB / WB	SB / EB		
HC Road	FROM	TO												
	Riverside	University	6921	5488	6730	5355	188	91	3	1	0	41		
	University	Wyandotte	3185	3974	2976	3574	91	123	64	236	55	41		
	Wyandotte	AMB Off Ramp	2244	3139	2201	2973	0	0	43	166	0	0		
	AMB Off Ramp	College	18520	6297	8368	6194	239	102	7092	1	2821	0		
	College St	Girardot St	26148	24855	18434	16577	576	499	6873	4953	264	2826		
	Girardot St	Tecumseh Rd	25103	24972	18123	17435	682	591	6059	4282	238	2664		
	Tecumseh Rd	Dorchester St	28263	28077	21472	21113	833	733	5720	3811	238	2420		
	Dorchester St	Prince Rd/Totten St	28314	29360	22182	22974	737	668	5191	3496	204	2222		
	Prince Rd/Totten St	Malden Rd	30960	33126	24797	26746	824	786	5109	3544	230	2050		
	Malden Rd	Industrial Rd	24658	28107	18818	21670	611	631	5220	3782	8	2024		
	Industrial Rd	EC Row N. Ramp Terminal	27916	30104	22088	23972	711	692	5117	3429	0	2011		
EC Row N. Ramp Terminal	EC Row S. Ramp Terminal	20480	37897	15355	31912	465	803	4460	3350	0	1832			
S. of EC Row S. Ramp Terminal		27674	28928	22465	23981	651	505	4558	2895	0	1547			
S Service Rd	N. of Lambton St		0	12380	n/a	11499	n/a	174	n/a	707	n/a	0		
	Lambton St	Todd Ln/Cabana Rd	0	11489	n/a	10949	n/a	133	n/a	408	n/a	0		
	Todd Ln/Cabana Rd	St Clair College	0	17084	n/a	16998	n/a	86	n/a	0	n/a	0		
	St Clair College	Cousineau Dr	0	9834	n/a	8086	n/a	89	n/a	1543	n/a	115		
	Cousineau Dr	Howard Ave	0	6313	n/a	5739	n/a	80	n/a	376	n/a	118		
	E. of Howard Ave		0	13024	n/a	12772	n/a	251	n/a	0	n/a	0		
N Service Rd	N. of Labelle St		28297	0	23331	n/a	544	n/a	4421	n/a	0	n/a		
	Labelle St	Grand Marais Rd Ramp	27609	0	25324	n/a	345	n/a	1940	n/a	0	n/a		
	Grand Marais Rd Ramp	Pulford St	13788	0	12577	n/a	166	n/a	1045	n/a	0	n/a		
	Pulford St	Todd Ln/Cabana Rd	14331	0	13182	n/a	185	n/a	994	n/a	0	n/a		
	Todd Ln/Cabana Rd	St Clair College	7167	0	7167	n/a	0	n/a	0	n/a	0	n/a		
	St Clair College	Cousineau Dr	14675	0	11596	n/a	79	n/a	3000	n/a	0	n/a		
Ojibway Pwy	Cousineau Dr	Howard Ave	7599	0	6917	n/a	199	n/a	484	n/a	0	n/a		
	E. of Howard Ave		14732	0	14417	n/a	315	n/a	0	n/a	0	n/a		
	EC Row Expressway	GN Booth Dr	10894	11126	10618	10442	137	132	27	21	112	531		
	GN Booth Dr	Sandwich St	10830	10927	10553	10241	137	130	27	21	113	535		
Ojibway Pwy	Sandwich St	Prospect Ave	10088	10069	9968	9956	73	73	47	40	0	0		
	N. of Prospect Ave		10025	9858	9906	9748	72	72	47	39	0	0		
CROSSING ROADS			0	0										
Wyandotte	W of Huron Church		5139	4894	4769	4457	0	0	370	437	0	0		
	E of Huron Church		3633	5254	2820	4180	19	147	743	927	51	0		
University	W of Huron Church		1376	1275	1376	1275	0	0	0	0	0	0		
	E of Huron Church		2287	2207	2053	2040	123	91	70	21	41	55		
Riverside	W of Huron Church		3579	3715	3579	3715	0	0	0	0	0	0		
AMB Off Ramp	E of Huron Church		6925	5802	6759	5759	0	0	166	43	0	n/a		
AMB On Ramp	E of Huron Church		0	11250	0	1286	0	54	0	7089	0	2821		
AMB On Ramp	E of Huron Church		6739	0	240	0	6	0	6270	0	223	0		
Patricia	AMB	Wyandotte	4135	4980	422	1283	12	53	3486	3339	215	305		
	College St		6603	6529	6436	5615	164	129	3	574	0	212		
Girardot St	E of HC Road		2066	963	1666	921	0	0	400	42	0	0		
	W of HC Road		1147	1159	970	1159	0	0	177	0	0	0		
	E of HC Road		2297	2203	2218	2155	36	21	43	27	0	0		
Tecumseh Rd	W of HC Road		5789	6844	5461	6130	126	145	201	574	0	195		
	E of HC Road		6495	7114	6306	6991	0	0	189	123	0	0		
	E of HC Road		1717	1582	1453	1582	0	0	264	0	0	0		
Dorchester St	W of HC Road		1419	808	1375	790	23	9	22	9	0	0		
	E of HC Road		2214	2353	2135	2253	0	0	79	101	0	0		
	E of HC Road		5516	5545	5419	5468	0	0	97	77	0	0		
Prince Rd/Totten St	W of HC Road		1632	1359	1358	1086	0	0	274	273	0	0		
	E of HC Road		8212	8859	7338	7745	385	378	294	15	195	721		
	E of HC Road		3925	3673	3710	3431	50	58	157	163	8	21		
Industrial Rd	W of HC Road		4262	3467	4090	3017	173	204	0	0	0	246		
	E of HC Road (W-N/S Off Ramp & N-W On Ramp)		15964	2066	14136	1853	358	0	1469	214	0	0		
	W of HC Road (S-W On Ramp)		584	0	378	n/a	11	n/a	44	n/a	151	n/a		
EC Row S. Ramp Terminal	E. of HC Road (N-E On Ramp)		0	10547	n/a	10387	n/a	160	n/a	0	n/a	0		
	W. of HC Road (S-E On Ramp & E-N/S Off Ramp)		9448	3084	8157	2649	288	85	619	351	384	0		
Labelle St	E. of N. Service Rd		2018	758	1819	758	0	0	199	0	0	0		
	E. of N. Service Rd		5402	2065	5154	1852	0	0	248	213	0	0		
Grand Marais Rd Ramp	W. of S. Service Rd		3907	2924	3774	2859	62	35	71	31	0	0		
	E. of N. Service Rd		476	1099	402	1099	0	0	75	0	0	0		
Pulford St	E. of N. Service Rd		9635	7247	9555	7187	0	0	81	60	0	0		
	between N. and S. Service Rd		10668	14999	10668	14245	0	119	0	635	0	0		
	between S. Service Rd and Huron Church Line		16030	15949	15681	15339	91	114	259	496	0	0		
Todd Ln/Cabana Rd	W. of Huron Church Line		8758	9145	8753	9142	0	0	5	3	0	0		

TABLE A-3 CONT'D.

HIGHWAY 401 Mainline											
	S. of Hwy 3 merge/split	24704	26965	14104	13161	414	298	3568	3385	6618	10121
	N. of Howard Ave	22602	26333	11366	11823	363	290	4199	4060	6674	10160
	At Grand Marais Rd	19526	29871	9883	13605	340	339	4031	5132	5272	10795
	E. of Malden Rd	9431	18755	1906	6731	61	239	1847	2982	5617	8783
	To/From Canadian Plaza	12704	21543	0	4	3	4	5057	9228	7644	12306
		0	0								
	HIGHWAY 401 Ramps	0	0								
	Hwy 3 merge/split	0	0								
	401 NB Off Ramp	11166	0	9034	0	199	0	1343	0	590	0
	401 NB On Ramp	9328	0	9156	0	172	0	0	0	0	0
	401 SB Off Ramp	0	9841	0	9643	0	198	0	0	0	0
	401 SB On Ramp	0	10600	0	7754	0	494	0	2082	0	570
	At St. Clair College	0	0								
	401 NB Off Ramp	7216	0	7216	0	0	0	0	0	0	0
	401 NB On Ramp	4457	0	3658	0	22	0	777	0	0	0
	401 SB Off Ramp	0	8772	0	7229	0	75	0	1333	0	134
	401 SB On Ramp	0	5449	0	5426	0	23	0	0	0	0
	At Huron Church Rd	0	0								
	401 NB Off Ramp	10331	0	7959	0	289	0	2082	0	0	0
	401 SB On Ramp	0	10960	0	7881	0	176	0	1748	0	1154
	At Malden Rd	0	0								
	401 NB Off Ramp	3769	0	2808	0	384	0	425	0	151	0
	401 SB On Ramp	0	4949	0	3457	0	541	0	951	0	0
	Hwy 401 to EC Row Expressway	0	0								
	401 SB Off Ramp	0	14976	0	10255	0	248	0	3455	0	1018
	Ojibway Pkwy IC	0	0								
	401 NB Off Ramp	5160	0	4714	0	446	0	0	0	0	0
	401 NB On Ramp	1688	0	0	0	0	0	1331	0	357	0
	401 SB Off Ramp	0	1142	0	202	0	18	0	922	0	0
	401 SB On Ramp	0	18909	0	18372	0	536	0	0	0	0
	EC Row Expressway to Hwy 401	0	0								
	401 NB On Ramp	2521	0	0	0	0	0	1554	0	967	0
		0	0								
		0	0								
	FROM		TO								
	S. of Hwy 3 merge/split	Hwy 3/401 NB Off Ramp	24704	0	14104		414		3568		6618
	Hwy 3/401 NB Off Ramp	Hwy 3/401 NB On Ramp	13346	0	4087		170		3022		6067
	Hwy 3/401 NB On Ramp	St. Clair/401 NB Off Ramp	22602	0	11366		363		4199		6674
	St. Clair/401 NB Off Ramp	St. Clair/401 NB On Ramp	14904	0	6835		283		3101		4685
	St. Clair/401 NB On Ramp	HC Rd/401 NB Off Ramp	19526	0	9883		340		4031		5272
	HC Rd/401 NB Off Ramp	Malden/401 NB Off Ramp	9431	0	1906		61		1847		5617
	Malden/401 NB On Ramp	Ojibway/401 NB Off Ramp	13200	0	4714		446		2272		5768
	Ojibway Pkwy/401 NB Off Ramp	Ojibway Pkwy/401 NB On Ramp	8040	0	0		0		2272		5768
	Ojibway Pkwy/401 NB On Ramp	EC ROW to 401 NB On Ramp	9728	0	0		0		3603		6125
	EC ROW to 401 NB On Ramp	Canadian Plaza	12701	0	0		0		5057		7644
			0	0							
	Canadian Plaza	Ojibway/401 SB Off Ramp	0	21543		4			9228		12306
	Ojibway/401 SB Off Ramp	Ojibway/401 SB On Ramp	0	20153		4			8578		11568
	Ojibway/401 SB On Ramp	401 to EC ROW SB Off Ramp	0	39289		18221		637	8291		12140
	401 to EC ROW SB Off Ramp	Malden/401 SB Off Ramp	0	24273		5859		357	4978		13079
	Malden/401 SB Off Ramp	HC Rd/401 SB On Ramp	0	18679		3616		104	3880		11078
	HC Rd/401 SB On Ramp	St. Clair/401 SB Off Ramp	0	29871		13605		339	5132		10795
	St. Clair/401 SB Off Ramp	St. Clair/401 SB On Ramp	0	20521		7649		239	3643		8991
	St. Clair/401 SB On Ramp	Hwy 3/401 SB Off Ramp	0	26333		11823		290	4060		10160
	Hwy 3/401 SB Off Ramp	Hwy 3/401 SB On Ramp	0	15262		6566		156	2533		6006
	Hwy 3/401 SB On Ramp	S. of Hwy 3 merge/split	0	26965		13161		298	3385		10121
			0	0							
			0	0							
	Grand Marais Rd	E. of connecting ramp	5257	4687	5017	4186	0	0	240	501	0
		W. of connecting ramp	4021	7096	4018	6458	3	40	0	597	0
	Broadway Street	W. of Ojibway Pkwy	330	352	329	352	0	0	1	0	0
			0	0							
	Huron Church Line	S. of Todd Lane	10984	11821	9386	9973	233	220	1039	1162	326
	Millen	Felix	107	257	104	251	2	4	1	3	0
		HC	0	0							
	Malden	Chappus	401 S. Ramp	10514	12368	9601	11445	269	286	643	637
			401 N. Ramp	11628	7976	10637	7375	295	185	695	416
			N. of 401 N. Ramp	8383	8854	7675	8188	212	206	496	461
			Chappus	9852	9480	9736	9270	0	0	116	209
	Matchette	EC Row S. Ramp	EC Row N. Ramp	2796	10345	2667	10155	0	0	129	190
		EC Row N. Ramp	Carmichael	5098	3121	4984	2984	0	0	114	137

**TABLE A-4 24-HOUR ANNUAL AVERAGE DAILY TRAFFIC (AADT) FOR ALTERNATIVE 1A – YEAR 2035**

LOCATION	SECTION		24 Hour AADT											
			Total Cars and Trucks		Local Cars		Local Trucks		International Cars		International Trucks			
			NB / WB	SB / EB	NB / WB	SB / EB	NB / WB	SB / EB	NB / WB	SB / EB	NB / WB	SB / EB		
HC Road	FROM	TO												
	Riverside	University	6884	5632	6681	5506	199	5	3	1	0	0	81	
	University	Wyandotte	3071	4106	2848	3663	92	125	69	1	62	81	0	
	Wyandotte	AMB Off Ramp	2110	3240	2062	3072	0	0	47	168	0	0	0	
	AMB Off Ramp	College	19645	6460	7913	6352	238	107	7713	1	3781	0	0	
	College St	Girardot St	26159	25893	18212	16345	580	514	7061	5277	306	3756	0	
	Girardot St	Tecumseh Rd	25638	26470	18263	17708	712	614	6376	4624	287	3524	0	
	Tecumseh Rd	Dorchester St	28751	29264	21568	21580	867	768	6028	3842	287	3124	0	
	Dorchester St	Prince Rd/Totten St	28834	30327	22344	23278	763	691	5483	3517	3244	2844	0	
	Prince Rd/Totten St	Malden Rd	31699	34496	25100	27702	860	830	5462	3268	278	2696	0	
	Malden Rd	Industrial Rd	25290	29911	19140	23044	648	684	5492	3421	10	2762	0	
	Industrial Rd	EC Row N. Ramp Terminal	28563	32827	22486	25804	740	759	5337	3536	0	2728	0	
	EC Row N. Ramp Terminal	EC Row S. Ramp Terminal	21332	41573	16155	34765	488	890	4690	3428	0	2489	0	
S. of EC Row S. Ramp Terminal		29933	32061	24303	26445	722	568	4907	3037	0	2010	0		
S Service Rd	N. of Lambton St		0	14423	n/a	13352	n/a	204	n/a	867	n/a	0	0	
	Lambton St	Todd Ln/Cabana Rd	0	18362	n/a	12677	n/a	155	n/a	530	n/a	0	0	
	Todd Ln/Cabana Rd	St Clair College	0	18371	n/a	18273	n/a	98	n/a	0	n/a	0	0	
	St Clair College	Cousineau Dr	0	18653	n/a	8674	n/a	91	n/a	1745	n/a	143	0	
	Cousineau Dr	Howard Ave	0	6532	n/a	5944	n/a	77	n/a	426	n/a	136	0	
	E. of Howard Ave		0	18106	n/a	18828	n/a	278	n/a	0	n/a	0	0	
N Service Rd	N. of Labelle St		30429	0	25012	n/a	618	n/a	4799	n/a	0	n/a	0	
	Labelle St	Grand Marais Rd Ramp	29689	0	22023	n/a	408	n/a	2258	n/a	0	n/a	0	
	Grand Marais Rd Ramp	Pulford St	14568	0	13112	n/a	201	n/a	1256	n/a	0	n/a	0	
	Pulford St	Todd Ln/Cabana Rd	15197	0	13747	n/a	223	n/a	1227	n/a	0	n/a	0	
	Todd Ln/Cabana Rd	St Clair College	7428	0	7428	n/a	0	n/a	0	n/a	0	n/a	0	
	St Clair College	Cousineau Dr	15278	0	11970	n/a	87	n/a	3222	n/a	0	n/a	0	
	Cousineau Dr	Howard Ave	8810	0	7331	n/a	246	n/a	434	n/a	0	n/a	0	
Ojibway Pwy	E. of Howard Ave		45472	0	15128	n/a	344	n/a	0	n/a	0	n/a	0	
	EC Row Expressway	GN Booth Dr	11696	11775	11387	10979	144	129	25	19	140	648	0	
	GN Booth Dr	Sandwich St	11832	11576	11322	10778	143	127	26	19	141	652	0	
	Sandwich St	Prospect Ave	10789	10589	10666	10473	74	72	50	44	0	0	0	
N. of Prospect Ave		40726	10388	10603	10274	74	71	49	43	0	0	0		
CROSSING ROADS			0	0										
Wyandotte	W. of Huron Church		4985	4912	4604	4465	0	0	381	446	0	0	0	
	E. of Huron Church		3622	5422	2776	4327	17	154	771	942	58	0	0	
University	W. of Huron Church		1547	1310	1547	1310	0	0	0	0	0	0	0	
	E. of Huron Church		2500	2264	2225	2085	125	92	68	22	81	62	0	
Riverside	W. of Huron Church		3718	4039	3717	4039	0	0	0	0	0	0	0	
	E. of Huron Church		7178	5977	7009	5930	0	0	169	47	0	0	0	
AMB Off Ramp	E. of Huron Church		0	12464	0	931	0	43	0	7710	0	3781	0	
AMB On Ramp	E. of Huron Church		7143	0	265	0	7	0	6598	0	273	0	0	
Patricia	AMB	Wyandotte	4288	4829	469	928	14	41	3573	3465	233	394	0	
College St	E. of HC Road		6758	6585	6584	5577	171	131	3	582	0	296	0	
	W. of HC Road		2275	1078	1746	1039	0	0	529	39	0	0	0	
Girardot St	E. of HC Road		1155	1167	973	1167	0	0	182	0	0	0	0	
	W. of HC Road		2291	2171	2213	2122	36	22	42	27	0	0	0	
Tecumseh Rd	E. of HC Road		6209	7294	5868	6355	135	146	206	450	0	342	0	
	W. of HC Road		6677	7354	6315	7254	0	0	362	99	0	0	0	
Dorchester St	E. of HC Road		1740	1600	1466	1600	0	0	274	0	0	0	0	
	W. of HC Road		1419	808	1375	790	22	9	22	9	0	0	0	
Prince Rd/Totten St	E. of HC Road		2312	2888	2228	2764	0	0	83	124	0	0	0	
	W. of HC Road		5054	5711	4992	5628	0	0	62	83	0	0	0	
Malden Rd	E. of HC Road		1859	1512	1546	1009	0	0	313	503	0	0	0	
	W. of HC Road		8621	9302	7608	7977	399	391	380	44	234	890	0	
Industrial Rd	E. of HC Road		4561	3862	3605	3587	46	57	702	191	8	27	0	
	W. of HC Road		4490	3603	4307	3085	183	210	0	0	0	308	0	
EC Row N. Ramp Terminal	E. of HC Road (W-N/S Off Ramp & N-W On Ramp)		16497	2213	14587	1944	376	2	1534	267	0	0	0	
	W. of HC Road (S-W On Ramp)		626	0	387	n/a	11	n/a	45	n/a	182	n/a	0	
EC Row S. Ramp Terminal	E. of HC Road (N-E On Ramp)		0	12051	n/a	11821	n/a	230	n/a	0	n/a	0	0	
	W. of HC Road (S-E On Ramp & E-N/S Off Ramp)		10022	3317	8584	2930	312	86	541	301	585	0	0	
Labelle St	E. of N. Service Rd		2112	803	1900	803	0	0	212	0	0	0	0	
Grand Marais Rd Ramp	E. of N. Service Rd		5912	2254	5666	2026	0	0	245	228	0	0	0	
Fazio Dr	W. of S. Service Rd		4702	3481	4549	3403	74	39	79	39	0	0	0	
Pulford St	E. of N. Service Rd		476	1205	401	1205	0	0	76	0	0	0	0	
Todd Ln/Cabana Rd	E. of N. Service Rd		10835	8271	10749	8206	0	0	86	65	0	0	0	
	between N. and S. Service Rd		11958	16763	11958	15840	0	146	0	777	0	0	0	
	between S. Service Rd and Huron Church Line		18324	17933	17887	17167	103	140	333	626	0	0	0	
St Clair College	W. of Huron Church Line		9347	9638	9340	9633	0	0	7	5	0	0	0	
	E. of N. Service Rd		3387	9171	3387	8894	0	0	101	276	0	0	0	
	between N. and S. Service Rd		2706	2961	2706	2761	0	0	0	201	0	0	0	
Cousineau Dr	E. of N. Service Rd		5507	4380	4052	3386	0	0	1456	993	0	0	0	
	between N. and S. Service Rd		9161	7923	6330	7763	7	160	2824	0	0	0	0	
	W. of S. Service Rd		12108	8103	10109	7212	25	153	1974	738	0	0	0	
Howard Ave	E. of N. Service Rd		9246	10454	9092	10245	151	202	3	6	0	0	0	
	between N. and S. Service Rd		13631	8725	13254	8541	226	182	150	2	0	0	0	
	W. of S. Service Rd		13518	17014	13154	16611	281	354	82	49	0	0	0	
EC Row Expressway	E. of Ojibway Pwy		21805	9794	20974	9441	499	250	191	84	140	18	0	
	W. of Ojibway Pwy		30777	13314	24225	13029	311	285	6094	150	0	0	0	
	E. of Huron Church Rd		48161	57032	43009	48627	905	1071	3558	5208	688	2127	0	
	At Malden Rd		34317	37671	30637	31372	566	596	2197	4367	917	1336	0	
	W. of Matchette		24784	9794	21519	9441	512	250	1921	84	832	18	0	
	W. of Ojibway Pwy		357	461	347	450	6	6	4	4	4	0	0	
Sandwich St	W. of Ojibway Pwy		1775	1630	1594	1496	157	102	25	33	0	0	0	
Prospect Ave	W. of Ojibway Pwy		342	437	333	427	5	4	3	6	0	0	0	

TABLE A-4 CONT'D.

HIGHWAY 401 Mainline									
S. of Hwy 3 merge/split		27686	30966	15464	14400	474	334	3825	3724
N. of Howard Ave		25681	30052	12463	12507	411	312	4686	4508
At Grand Marais Rd		22404	33356	10894	14073	394	357	4549	5585
E. of Malden Rd		11228	21750	1969	6847	67	289	2183	3534
To From Canadian Plaza		14834	24168	1	5	3	4	5721	9960
		0	0						
		0	0						
HIGHWAY 401 Ramps									
<i>Hwy 3 merge/split</i>									
401 NB Off Ramp		11862	0	9353	0	208	0	1518	0
401 NB On Ramp		9728	0	9544	0	184	0	0	0
401 SB Off Ramp		0	10383	0	10166	0	217	0	0
401 SB On Ramp		0	11830	0	8354	0	209	0	2528
<i>At St. Clair College</i>									
401 NB Off Ramp		7753	0	7753	0	0	0	0	0
401 NB On Ramp		4850	0	3965	0	25	0	860	0
401 SB Off Ramp		0	8911	0	7289	0	74	0	1386
401 SB On Ramp		0	5824	0	5797	0	27	0	0
<i>At Huron Church Rd</i>									
401 NB Off Ramp		11496	0	8930	0	342	0	2224	0
401 SB On Ramp		0	11499	0	8128	0	187	0	1754
<i>At Malden Rd</i>									
401 NB On Ramp		4147	0	2986	0	436	0	516	0
401 SB Off Ramp		0	5453	0	3858	0	536	0	1059
<i>Hwy 401 to EC Row Expressway</i>									
401 SB Off Ramp		0	18144	0	12115	0	304	0	4414
<i>Ojibway Pkwy IC</i>									
401 NB Off Ramp		5459	0	4956	0	503	0	0	0
401 NB On Ramp		1807	0	0	0	0	0	1396	0
401 SB Off Ramp		0	1297	0	295	0	28	0	974
401 SB On Ramp		0	22906	0	22247	0	658	0	0
<i>EC Row Expressway to Hwy 401</i>									
401 NB On Ramp		3029	0	0	0	0	0	1865	0
FROM TO									
S. of Hwy 3 merge/split	Hwy 3/401 NB Off Ramp	27686	0	15464		474		3825	
Hwy 3/401 NB Off Ramp	Hwy 3/401 NB On Ramp	16034	0	4872		211		3465	
Hwy 3/401 NB On Ramp	St. Clair/401 NB Off Ramp	25681	0	12463		411		4686	
St. Clair/401 NB Off Ramp	St. Clair/401 NB On Ramp	17359	0	7633		328		3538	
St. Clair/401 NB On Ramp	HC Rd/401 NB Off Ramp	22404	0	10894		394		4549	
HC Rd/401 NB Off Ramp	Malden/401 NB On Ramp	11228	0	1969		67		2183	
Malden/401 NB On Ramp	Ojibway/401 NB Off Ramp	15375	0	4956		503		2698	
Ojibway Pkwy/401 NB Off Ramp	Ojibway Pkwy/401 NB On Ramp	9916	0	0		0		2698	
Ojibway Pkwy/401 NB On Ramp	EC ROW to 401 NB On Ramp	11723	0	0		0		4095	
EC ROW to 401 NB On Ramp	Canadian Plaza	14830	0	0		0		5721	
		0	0						
Canadian Plaza	Ojibway/401 SB Off Ramp	0	24168		5		4		9960
Ojibway/401 SB Off Ramp	Ojibway/401 SB On Ramp	0	22602		5		3		9245
Ojibway/401 SB On Ramp	401 to EC ROW SB Off Ramp	0	46534		19725		681		9840
401 to EC ROW SB Off Ramp	Malden/401 SB Off Ramp	0	29106		6163		354		5724
Malden/401 SB Off Ramp	HC Rd/401 SB On Ramp	0	22883		3767		98		4513
HC Rd/401 SB On Ramp	St Clair/401 SB Off Ramp	0	33356		14073		357		5585
St Clair/401 SB Off Ramp	St Clair/401 SB On Ramp	0	23809		8128		259		4069
St Clair/401 SB On Ramp	Hwy 3/401 SB Off Ramp	0	30052		12507		312		4508
Hwy 3/401 SB Off Ramp	Hwy 3/401 SB On Ramp	0	18217		7279		176		2918
Hwy 3/401 SB On Ramp	S. of Hwy 3 merge/split	0	30966		14400		334		3724
Grand Marais Rd	E. of connecting ramp	5749	5118	5514	4580	0	0	235	537
	W. of connecting ramp	4391	7750	4388	7049	3	47	0	654
Broadway Street	W. of Ojibway Pkwy	330	352	329	352	0	0	1	0
		0	0						
Huron Church Line	S. of Todd Lane	12558	13701	10527	11295	263	251	1324	1477
Millen <sup>3</sup>	Feix	107	257	104	251	2	4	1	3
		0	0						
Malden	Chappus	9268	13116	8502	12153	232	312	534	652
	401 S. Ramp	10504	8288	9648	7676	261	198	595	414
	N. of 401 N. Ramp	6946	9254	6413	8572	168	221	365	462
	Chappus	10463	9981	10420	9722	0	0	44	259
Matchette	EC Row S. Ramp	3015	10774	2981	10374	0	0	34	400
	EC Row N. Ramp	5379	3291	5343	2969	0	0	36	322

**TABLE A-5 24-HOUR ANNUAL AVERAGE DAILY TRAFFIC (AADT) FOR  
ALTERNATIVE 1B – YEAR 2015**

LOCATION	SECTION		24 Hour AADT											
			Total Cars and Trucks		Local Cars		Local Trucks		International Cars		International Trucks			
			NB / WB	SB / EB	NB / WB	SB / EB	NB / WB	SB / EB	NB / WB	SB / EB	NB / WB	SB / EB		
HC Road	Riverside	University	6911	5457	6735	5369	173	84	3	1	0	3		
	University	Wyandotte	3258	3990	3090	3626	91	148	58	242	20	3		
	Wyandotte	AMB Off Ramp	2322	3177	2285	3005	0	0	37	172	0	0		
	AMB Off Ramp	College	17448	6323	8617	6228	229	94	6211	1	2391	0		
	College St	Girardot St	25364	24092	18255	16675	545	487	6361	4419	205	2512		
	Girardot St	Tecumseh Rd	24197	23801	17763	17139	636	571	5615	3744	182	2347		
	Tecumseh Rd	Dorchester St	27469	27266	21118	21024	778	716	5388	3342	186	2185		
	Dorchester St	Prince Rd/Totten St	27511	28532	21714	22815	693	656	4945	3065	159	1997		
	Prince Rd/Totten St	Malden Rd	30088	31791	24278	26074	777	757	4852	3020	180	1940		
	Malden Rd	Industrial Rd	24739	26722	19254	21200	577	580	4904	3155	7	1837		
	Industrial Rd	EC Row N. Ramp Terminal	27169	28916	21772	23501	662	652	4738	2918	0	1845		
	EC Row N. Ramp Terminal	EC Row S. Ramp Terminal	20228	32043	15702	30398	416	646	4099	2573	0	1516		
S. of EC Row S. Ramp Terminal		24803	26946	20498	30057	528	389	3776	2217	0	1285			
S Service Rd	N. of Bethlehem Ave		0	23492	n/a	19685	n/a	343	n/a	2215	n/a	1249		
	Bethlehem Ave	Lambton St	0	5220	n/a	4783	n/a	124	n/a	313	n/a	0		
	Lambton St	Pulford St	0	5063	n/a	4812	n/a	29	n/a	222	n/a	0		
	Pulford St	Todd Ln/Cabana Rd	0	11853	n/a	11759	n/a	94	n/a	0	n/a	0		
	Todd Ln/Cabana Rd	Huron Church Line	0	12504	n/a	12007	n/a	112	n/a	585	n/a	0		
	Huron Church Line	St Clair College	0	16536	n/a	16439	n/a	97	n/a	0	n/a	0		
	St Clair College	Cousineau Dr	0	9134	n/a	7717	n/a	104	n/a	1359	n/a	154		
	Cousineau Dr	Howard Ave	0	6282	n/a	5460	n/a	105	n/a	534	n/a	184		
	Howard Ave		0	12060	n/a	11823	n/a	237	n/a	0	n/a	0		
	N. of Labelle St		28501	0	21702	n/a	443	n/a	3356	n/a	0	n/a		
	Labelle St	Grand Marais Rd Ramp	28298	0	21787	n/a	235	n/a	1276	n/a	0	n/a		
Grand Marais Rd Ramp	Pulford St	5423	0	5040	n/a	8	n/a	376	n/a	0	n/a			
Pulford St	Todd Ln/Cabana Rd	5498	0	5384	n/a	12	n/a	0	n/a	0	n/a			
Todd Ln/Cabana Rd	Huron Church Line	11813	0	10740	n/a	12	n/a	449	n/a	0	n/a			
Huron Church Line	St Clair College	7229	0	7197	n/a	32	n/a	0	n/a	0	n/a			
St Clair College	Cousineau Dr	14718	0	12769	n/a	123	n/a	1825	n/a	0	n/a			
Cousineau Dr	Howard Ave	7461	0	6898	n/a	111	n/a	451	n/a	0	n/a			
Howard Ave		78630	0	13346	n/a	283	n/a	0	n/a	0	n/a			
N Service Rd	EC Row Expressway	GN Booth Dr	10180	10566	9926	9978	137	137	27	14	91	427		
	GN Booth Dr	Sandwich St	10116	10433	9961	9845	136	135	27	15	91	438		
	Sandwich St	Prospect Ave	9478	9239	9354	9613	75	78	50	37	15	0		
	Prospect Ave		9415	9510	9292	9397	75	77	49	36	0	0		
Ojibway Pwy			0	0										
			0	0										
CROSSING ROADS			0	0										
Wyandotte	W of Huron Church		5168	4869	4808	4435	0	0	359	435	0	0		
	E of Huron Church		3574	5121	2813	4048	21	135	722	937	18	0		
University	W of Huron Church		1254	1192	1254	1192	0	0	0	0	0	0		
	E of Huron Church		2138	2118	1947	1986	118	91	70	21	3	20		
Riverside	W of Huron Church		3300	3487	3390	3487	0	0	0	0	0	0		
	E of Huron Church		6770	5671	6598	5633	0	0	173	37	0	0		
AMB Off Ramp	E of Huron Church		0	12464	0	931	0	43	0	7710	0	3781		
AMB On Ramp	E of Huron Church		6286	0	309	0	11	0	5792	0	174	0		
Patricia	AMB	Wyandotte	4111	5195	552	1458	21	57	3367	3412	171	267		
College St	E. of HC Road		6514	6361	6343	5558	168	124	3	535	0	144		
	W. of HC Road		1367	806	1670	752	0	0	167	54	0	0		
Girardot St	E. of HC Road		1133	1160	1017	1029	0	0	116	130	0	0		
	W. of HC Road		2346	2275	2258	2216	41	25	48	33	0	0		
Tecumseh Rd	E. of HC Road		5829	6836	5489	6174	139	148	201	359	0	156		
	W. of HC Road		6604	6994	6420	6866	0	0	184	127	0	0		
Dorchester St	E. of HC Road		1693	1533	1520	1350	0	0	173	183	0	0		
	W. of HC Road		1419	807	1370	786	26	10	24	11	0	0		
Prince Rd/Totten St	E. of HC Road		2075	2907	1998	2777	0	0	77	130	0	0		
	W. of HC Road		4782	5176	4701	5101	0	0	81	76	0	0		
Malden Rd	E. of HC Road		1377	1126	1172	923	0	0	205	203	0	0		
	W. of HC Road		7891	8417	6798	7406	386	398	553	38	154	576		
Industrial Rd	E. of HC Road		3619	3426	3425	3181	49	57	139	172	6	16		
	W. of HC Road		4072	3166	3914	2791	158	192	0	0	0	183		
EC Row N. Ramp Terminal	E. of HC Road (E-NS Off Ramp & S-W On Ramp)		14334	2042	13014	1881	270	0	1050	162	0	0		
	W. of HC Road (N-W On Ramp)		607	0	420	n/a	14	n/a	51	n/a	122	n/a		
EC Row S. Ramp Terminal	E. of HC Road (S-E On Ramp)		0	7407	n/a	7341	n/a	66	n/a	0	n/a	0		
	W. of HC Road (N-E On Ramp & W-N/S Off Ramp)		8637	2904	7642	2447	263	81	451	376	280	0		
Labelle St/Bethlehem Ave	E. of N. Service Rd		2903	2116	2670	1934	0	0	234	182	0	0		
	between N. and S. Service Rd		1403	3202	1403	3105	0	0	0	97	0	0		
	W. of S. Service Rd		1804	3255	1803	3251	0	0	2	24	0	0		
Grand Marais Rd/Lambton Rd	E. of N. Service Rd		4183	3270	3919	3026	0	0	264	244	0	0		
	between N. and S. Service Rd		2429	2940	2426	2777	3	24	0	140	0	0		
	W. of S. Service Rd		1714	1960	1647	1912	29	17	38	32	0	0		
Pulford St	E. of N. Service Rd		1465	1949	1306	1733	0	0	159	216	0	0		
	between N. and S. Service Rd		1393	1234	1393	1073	0	0	0	161	0	0		
	W. of S. Service Rd		1177	876	1143	855	24	7	11	14	0	0		
Todd Ln/Cabana Rd	E. of N. Service Rd		8721	7177	8177	6567	0	0	544	610	0	0		
	between N. and S. Service Rd		9351	8073	9351	7180	0	0	0	894	0	0		
	W. of S. Service Rd		9933	9958	9920	9948	0	0	13	10	0	0		
Huron Church Line	between N. and S. Service Rd		1219	5242	1178	4863	41	77	0	303	0	0		
	W. of S. Service Rd		7451	6841	7017	6398	93	98	341	345	0	0		
	E. of N. Service Rd		2968	8655	2874	8398	0	0	94	257	0	0		
St Clair College	between N. and S. Service Rd		2255	2587	2255	2418	0	0	0	169	0	0		
	E. of N. Service Rd		6396	4415	4410	3623	0	0	248	3903	0	103		
	between N. and S. Service Rd		7608	6705	6207	6705	0	0	1400	0	0	0		
Cousineau Dr	W. of S. Service Rd		9797	6318	9797	6318	0	0	0	0	0	0		
	E. of N. Service Rd		7718	8482	7885	8325	133	155	0	3	0	0		
	between N. and S. Service Rd		11637	7215	11382	7054	211	160	44	1	0	0		
Howard Ave	W. of S. Service Rd		11382	13477	11110	13141	250	308	21	29	0	0		
	E. of Ojibway Pwy		13404	8173	12916	7790	311	383	378	0	60	0		
	W. of Ojibway Pwy		20538	11155	16138	10907	214	248	3903	0	103	0		
EC Row Expressway	E. of Huron Church Rd		35042	43067	31755	37865	679	725	2215	3256	393	1170		
	At Malden Rd		23161	29462	20864	24508	447	539	1305	3374	545	1040		
	W. of Matchette		15894	8173	15444	7790	364	383	20	0	66	0		
	GN Booth Dr	W. of Ojibway Pwy	357	461	346	448	7	8	4	5	0	0		
	Sandwich St	W. of Ojibway Pwy	1533	1388	1361	1261	148	91	24	35	0	0		
Prospect Ave	W. of Ojibway Pwy	342	437	331	426	7	4	4	7	0	0			



TABLE A-5 CONTD.

				NB / WB	SB / EB	NB / WB	SB / EB	NB / WB	SB / EB		
HIGHWAY 401 Mainline											
S. of Hwy 3 merge/split		19954	21530	11418	10688	322	249	3100	3035		
N. of Howard Ave		19664	21700	10555	10684	328	261	3688	3447		
At Grand Marais Rd		22550	30422	14236	17149	346	371	3844	4960		
E. of Malden Rd		7414	14231	1882	3207	55	88	1578	3163		
To/From Canadian Plaza		9990	17980	0	3	2	4	4205	8626		
		0	0								
HIGHWAY 401 Ramps		0	0								
Hwy 3 merge/split		0	0	NB / WB	SB / EB	NB / WB	SB / EB	NB / WB	SB / EB		
401 NB Off Ramp		9967	0	8295	0	179	0	1071	0		
401 NB On Ramp		9124	0	8952	0	172	0	0	0		
401 SB Off Ramp		0	9491	0	9307	0	184	0	0		
401 SB On Ramp		0	9566	0	7308	0	188	0	1668		
At St. Clair College		0	0	NB / WB	SB / EB	NB / WB	SB / EB	NB / WB	SB / EB		
401 NB Off Ramp		6964	0	6937	0	27	0	0	0		
401 NB On Ramp		4069	0	3578	0	31	0	460	0		
401 SB Off Ramp		0	7812	0	6415	0	79	0	1154		
401 SB On Ramp		0	5498	0	5471	0	27	0	0		
At Pulford St		0	0	NB / WB	SB / EB	NB / WB	SB / EB	NB / WB	SB / EB		
401 NB On Ramp		5919	0	5206	0	71	0	641	0		
401 SB Off Ramp		0	6238	0	5445	0	70	0	723		
401 SB On Ramp		0	0	NB / WB	SB / EB	NB / WB	SB / EB	NB / WB	SB / EB		
At Huron Church Rd		15039	0	12483	0	292	0	2264	0		
401 NB Off Ramp		0	16563	0	13008	0	267	0	2012		
401 SB On Ramp		0	0	NB / WB	SB / EB	NB / WB	SB / EB	NB / WB	SB / EB		
401 NB On Ramp		3176	0	2447	0	406	0	262	0		
401 SB Off Ramp		0	4140	0	2705	0	571	0	864		
Hwy 401 to EC Row Expressway		0	0	NB / WB	SB / EB	NB / WB	SB / EB	NB / WB	SB / EB		
401 SB Off Ramp		0	13364	0	9455	0	227	0	2861		
Ojibway Pkwy IC		0	0	NB / WB	SB / EB	NB / WB	SB / EB	NB / WB	SB / EB		
401 NB Off Ramp		4791	0	4329	0	461	0	0	0		
401 NB On Ramp		1496	0	0	0	0	0	1222	0		
401 SB Off Ramp		0	1092	0	126	0	10	0	956		
401 SB On Ramp		0	14959	0	14537	0	422	0	0		
EC Row Expressway to Hwy 401		0	0	NB / WB	SB / EB	NB / WB	SB / EB	NB / WB	SB / EB		
401 NB On Ramp		2083	0	0	0	0	0	1309	0		
		0	0								
		0	0								
		0	0								
FROM		TO									
S. of Hwy 3 merge/split		Hwy 3/401 NB Off Ramp	19954	0	11418	0	322	0	3100		
Hwy 3/401 NB Off Ramp		Hwy 3/401 NB On Ramp	10589	0	3301	0	132	0	2615		
Hwy 3/401 NB On Ramp		St. Clair/401 NB Off Ramp	19664	0	10555	0	328	0	3688		
St. Clair/401 NB Off Ramp		St. Clair/401 NB On Ramp	12307	0	6027	0	243	0	2650		
St. Clair/401 NB On Ramp		Pulford/401 NB On Ramp	16522	0	9052	0	295	0	3309		
Pulford/401 NB On Ramp		HC Rd/401 NB Off Ramp	22550	0	14236	0	346	0	3844		
HC Rd/401 NB Off Ramp		Malden/401 NB On Ramp	7414	0	1882	0	55	0	1578		
Malden/401 NB On Ramp		Ojibway/401 NB Off Ramp	10591	0	4529	0	461	0	1839		
Ojibway Pkwy/401 NB Off Ramp		Ojibway Pkwy/401 NB On Ramp	5800	0	0	0	0	0	1839		
Ojibway Pkwy/401 NB On Ramp		EC ROW to 401 NB On Ramp	7296	0	0	0	0	0	3061		
EC ROW to 401 NB On Ramp		Canadian Plaza	9987	0	0	0	0	0	4205		
			0	0							
			0	0							
			0	17980	3	4			8626		
		Canadian Plaza	0	17980	3	4			8626		
		Ojibway/401 SB Off Ramp	0	16696	3	4			7971		
		Ojibway/401 SB On Ramp	0	31533	16044	572			6781		
		401 to EC ROW SB Off Ramp	0	18914	5089	361			4119		
		Malden/401 SB Off Ramp	0	14231	3207	88			3163		
		HC Rd/401 SB On Ramp	0	30422	17149	371			4960		
		Pulford/401 SB Off Ramp	0	24232	11594	304			4266		
		St. Clair/401 SB On Ramp	0	15850	6723	204			2874		
		St. Clair/401 SB Off Ramp	0	21700	10684	261			3447		
		St. Clair/401 SB On Ramp	0	11201	5307	127			1912		
		Hwy 3/401 SB Off Ramp	0	21530	10688	249			3035		
		Hwy 3/401 SB On Ramp	0	0							
			0	0							
			0	0							
Malden		Chappus	401 S. Ramp	8966	11480	7966	10186	345	490	655	804
			401 N. Ramp	9957	7916	8856	7008	383	341	718	567
			N. of 401 N. Ramp	7195	8613	6410	7630	276	370	510	613
Matchette		Chappus	EC Row S. Ramp	8512	7933	8563	7730	0	0	149	203
			EC Row N. Ramp	2620	8916	2477	8734	0	0	144	182
			EC Row N. Ramp	4861	3303	4744	3150	0	0	117	153

**TABLE A-6 24-HOUR ANNUAL AVERAGE DAILY TRAFFIC (AADT) FOR ALTERNATIVE 1B – YEAR 2025**

LOCATION	SECTION		24 Hour AADT											
			Total Cars and Trucks		Local Cars		Local Trucks		International Cars		International Trucks			
			NB/WB	SB/EB	NB/WB	SB/EB	NB/WB	SB/EB	NB/WB	SB/EB	NB/WB	SB/EB		
HC Road	FROM	TO	NB/WB	SB/EB	NB/WB	SB/EB	NB/WB	SB/EB	NB/WB	SB/EB	NB/WB	SB/EB	NB/WB	SB/EB
	Riverside	University	6986	5610	6800	5480	184	89	3	1	0	0	41	41
	University	Wwyandotte	3253	4092	3052	3097	91	121	67	233	23	0	41	41
	Wwyandotte	AMB Off Ramp	2280	2224	2224	2061	0	0	46	163	0	0	0	0
	AMB Off Ramp	College	18348	6447	8494	6847	294	100	6673	1	2947	0	0	0
	College St	Girardot St	20218	24966	18609	16795	572	497	6714	4695	263	2978	0	0
	Girardot St	Tecumseh Rd	25129	25158	18255	17710	683	597	5954	4048	237	2803	0	0
	Tecumseh Rd	Dorchester St	28309	28199	24600	24112	834	741	5636	3507	240	2539	0	0
	Dorchester St	Prince Rd/Totten St	28358	29470	22280	23308	743	678	5138	3231	207	2353	0	0
	Prince Rd/Totten St	Malden Rd	30998	33157	24902	27007	831	798	5032	3187	233	2165	0	0
	Malden Rd	Industrial Rd	24761	28255	19169	22115	608	631	4976	3389	8	2120	0	0
	Industrial Rd	EC Row N. Ramp Terminal	28022	30240	22450	24431	204	687	4868	3056	0	2066	0	0
EC Row N. Ramp Terminal	EC Row S. Ramp Terminal	20486	38090	15806	32888	438	713	4242	3742	0	1746	0	0	
S. of EC Row S. Ramp Terminal		27808	29115	22807	24956	615	428	4386	2287	0	1444	0	0	
S Service Rd	N. of Bethlehem Ave		0	25122	n/a	2474	n/a	380	n/a	2245	n/a	1374	0	0
	Bethlehem Ave	Lambton St	0	5610	n/a	5139	n/a	137	n/a	233	n/a	0	0	0
	Lambton St	Pulford St	0	5642	n/a	5418	n/a	18	n/a	206	n/a	0	0	0
	Pulford St	Todd Ln/Cabana Rd	0	13546	n/a	13482	n/a	64	n/a	0	n/a	0	0	0
	Todd Ln/Cabana Rd	Huron Church Line	0	13994	n/a	13405	n/a	121	n/a	468	n/a	0	0	0
	Huron Church Line	St Clair College	0	17693	n/a	17578	n/a	115	n/a	0	n/a	0	0	0
	St Clair College	Cousineau Dr	0	9902	n/a	8111	n/a	108	n/a	1463	n/a	221	0	0
	Cousineau Dr	Howard Ave	0	6321	n/a	5422	n/a	99	n/a	568	n/a	233	0	0
	Howard Ave		0	13024	n/a	12772	n/a	252	n/a	0	n/a	0	0	0
	N. of Labelle St		28317	0	23981	n/a	514	n/a	3821	n/a	0	n/a	0	0
N Service Rd	Labelle St	Grand Marais Rd Ramp	26127	0	24437	n/a	282	n/a	1408	n/a	0	n/a	0	0
	Grand Marais Rd Ramp	Pulford St	5754	0	5372	n/a	8	n/a	374	n/a	0	n/a	0	0
	Pulford St	Todd Ln/Cabana Rd	4015	0	6082	n/a	12	n/a	11	n/a	0	n/a	0	0
	Todd Ln/Cabana Rd	Huron Church Line	12049	0	11396	n/a	139	n/a	515	n/a	0	n/a	0	0
	Huron Church Line	St Clair College	7778	0	7722	n/a	56	n/a	0	n/a	0	n/a	0	0
	St Clair College	Cousineau Dr	15051	0	12982	n/a	136	n/a	1934	n/a	0	n/a	0	0
	Cousineau Dr	Howard Ave	7093	0	6978	n/a	112	n/a	513	n/a	0	n/a	0	0
	Howard Ave		14732	0	1452	n/a	300	n/a	24	n/a	0	n/a	0	0
	EC Row Expressway	GN Booth Dr	10894	11127	10615	10438	140	154	26	21	114	534	0	0
	GN Booth Dr	Sandwich St	10830	10928	10549	10237	139	132	27	21	115	538	0	0
	Sandwich St	Prospect Ave	10088	10069	9965	9953	74	74	48	42	0	0	0	0
	N. of Prospect Ave		10025	9858	9903	9744	74	73	48	41	0	0	0	0
CROSSING ROADS			0	0	0	0	0	0	0	0	0	0	0	
Wyandotte	W of Huron Church		5099	4858	4729	4420	0	0	370	438	0	0	0	
	E of Huron Church		3562	5201	2772	4133	18	142	750	926	22	0	0	
University	W of Huron Church		1365	1272	1365	1272	0	0	0	0	0	0	0	
	E of Huron Church		2311	2214	2079	2079	121	91	70	21	41	23	0	
Riverside	W of Huron Church		3552	2655	3552	2655	0	0	0	0	0	0	0	
	E of Huron Church		6981	5782	6817	5737	0	0	164	46	0	0	0	
AMB Off Ramp		0	12464	0	931	0	43	0	7710	0	3781	0	0	
AMB On Ramp	E of Huron Church		6558	#REF!	246	#REF!	6	#REF!	6082	#REF!	223	#REF!	0	
Patricia	AMB	Wyandotte	4149	5049	435	1328	13	54	3485	3362	216	305	0	
College St	E. of HC Road		6603	6526	6437	5640	163	127	3	568	0	191	0	
	W. of HC Road		2668	956	981	0	0	391	51	0	0	0	0	
Girardot St	E. of HC Road		1154	1148	1032	1014	0	0	12	135	0	0	0	
	W. of HC Road		2296	2202	2208	2148	42	25	47	30	0	0	0	
Tecumseh Rd	E. of HC Road		5786	6844	5448	6099	137	145	201	389	0	212	0	
	W. of HC Road		6488	7115	6271	6983	0	0	217	132	0	0	0	
Dorchester St	E. of HC Road		1726	1557	1544	1361	0	0	182	196	0	0	0	
	W. of HC Road		4199	808	1369	787	26	10	24	10	0	0	0	
Prince Rd/Totten St	E. of HC Road		2213	2353	2133	2247	0	0	80	106	0	0	0	
	W. of HC Road		5515	5545	5414	5466	0	0	101	79	0	0	0	
Malden Rd	E. of HC Road		1631	1358	1355	1081	0	0	276	277	0	0	0	
	W. of HC Road		8223	8875	7049	7669	401	393	570	46	203	766	0	
Industrial Rd	E. of HC Road		3926	3674	3222	3440	48	57	148	156	8	21	0	
	W. of HC Road		4262	3458	4094	3044	168	204	0	0	0	211	0	
EC Row N. Ramp Terminal	E. of HC Road (E-N/S Off Ramp & S-W On Ramp)		16245	2068	14906	1894	311	0	1028	174	0	0	0	
EC Row S. Ramp Terminal	W. of HC Road (N-W On Ramp)		583	0	380	n/a	11	n/a	46	n/a	146	n/a	0	
	E. of HC Road (S-E On Ramp)		0	10547	n/a	10444	n/a	103	n/a	0	n/a	0	0	
	W. of HC Road (N-E On Ramp & W-N/S Off Ramp)		9466	3083	8237	2636	296	85	550	362	383	0	0	
Labelle St/Bethlehem Ave	E. of N. Service Rd		3112	2338	2867	2132	0	0	246	207	0	0	0	
	between N. and S. Service Rd		1232	3565	1232	3459	0	0	0	106	0	0	0	
Grand Marais Rd/Lambton Rd	W. of S. Service Rd		1678	4360	1676	4354	0	0	2	6	0	0	0	
	E. of N. Service Rd		4593	3595	4348	3339	0	0	245	256	0	0	0	
Pulford St	between N. and S. Service Rd		2664	3229	2661	3047	2	29	0	153	0	0	0	
	W. of S. Service Rd		1876	2193	1801	2141	34	20	42	53	0	0	0	
Todd Ln/Cabana Rd	E. of N. Service Rd		1600	2235	1422	1890	0	0	178	245	0	0	0	
	between N. and S. Service Rd		1528	1356	1528	1170	0	0	0	185	0	0	0	
Huron Church Line	W. of S. Service Rd		1295	956	1258	954	26	8	11	14	0	0	0	
	E. of N. Service Rd		9390	7481	8855	6797	0	0	535	685	0	0	0	
St Clair College	between N. and S. Service Rd		9884	9828	9884	8599	0	0	0	1229	0	0	0	
	W. of S. Service Rd		11875	11293	11859	11282	0	0	18	11	188	0	0	
Cousineau Dr	between N. and S. Service Rd		1392	5744	1352	5299	39	89	0	357	0	0	0	
	E. of N. Service Rd		8272	7451	7790	6936	103	114	379	400	0	0	0	
Howard Ave	between N. and S. Service Rd		3199	8915	3101	8647	0	0	98	268	0	0	0	
	E. of N. Service Rd		2480	2790	2480	2599	0	0	0	191	0	0	0	
EC Row Expressway	E. of N. Service Rd		5254	4268	4303	3499	0	0	951	860	0	0	0	
	between N. and S. Service Rd		7924	7085	6334	7082	0	3	1590	0	0	0	0	
GN Booth Dr	W. of S. Service Rd		10685	7021	10685	7010	0	11	0	0	0	0	0	
	E. of N. Service Rd		8580	9789	8436	9599	144	187	0	4	0	0	0	
Sandwich St	between N. and S. Service Rd		12711	7994	12433	7815	221	177	57	1	0	0	0	
	W. of S. Service Rd		12530	15356	12241	14977	262	242	27	37	0	69	0	
Prospect Ave	E. of Ojibway Pwy		17698	9083	16912	8373	407	400	227	160	152	69	0	
	W. of Ojibway Pwy		25741	12305	19953	12035	255	270	5399	0	134	0	0	
Sandwich St	E. of Huron Church Rd		43102	51004	38796	44381	827	929	2908	4048	571	1646	0	
	At Malden Rd		29297	33650	25905	27562	552	614	2055	4070	785	1404	0	
Sandwich St	W. of Matchette		20831	9003	19940	8373	472	400	252	160	168	69	0	
	E. of Ojibway Pwy		357	461	346	488	7	8	0	5	0	0	0	
Prospect Ave	W. of Ojibway Pwy		1629	1518	1455	1387	151	97	24	34	0	0	0	
	W. of Ojibway Pwy		342	437	331	426	7	5	4	6	0	0	0	

TABLE A-6 CONTD.

HIGHWAY 401 Mainline				NB / WB	SB / EB	NB / WB	SB / EB	NB / WB	SB / EB			
	S. of Hwy 3 merge/split	24657	26996	14332	13093	407	298	3472	3388			
	N. of Howard Ave	22641	27071	11602	12224	371	298	4114	4103			
	At Grand Marais Rd	26644	36538	16248	19562	405	419	4489	5657			
	E. of Malden Rd	9413	18666	2103	3616	61	92	1856	3880			
	To/From Canadian Plaza	12620	21442	5	3	4		5116	9409			
		0	0									
		0	0									
		0	0									
	HIGHWAY 401 Ramps											
	Hwy 3 merge/split	0	0	NB / WB	SB / EB	NB / WB	SB / EB	NB / WB	SB / EB			
	401 NB Off Ramp	11304	0	9165	0	198	0	1339	0			
	401 NB On Ramp	9462	0	9286	0	176	0	0	0			
	401 SB Off Ramp	0	10063	0	9875	0	189	0	0			
	401 SB On Ramp	0	10832	0	7935	0	200	0	2115			
	At St. Clair College	0	0	NB / WB	SB / EB	NB / WB	SB / EB	NB / WB	SB / EB			
	401 NB Off Ramp	7309	0	7267	0	42	0	0	0			
	401 NB On Ramp	3979	0	3470	0	33	0	476	0			
	401 SB Off Ramp	0	7993	0	6448	0	81	0	1245			
	401 SB On Ramp	0	5906	0	5872	0	33	0	0			
	At Pulford St	0	0	NB / WB	SB / EB	NB / WB	SB / EB	NB / WB	SB / EB			
	401 NB On Ramp	7507	0	6615	0	95	0	796	0			
	401 SB Off Ramp	0	7227	0	6381	0	77	0	768			
	At Haron Church Rd	0	0	NB / WB	SB / EB	NB / WB	SB / EB	NB / WB	SB / EB			
	401 NB Off Ramp	17194	0	14226	0	346	0	2622	0			
	401 SB On Ramp	0	18468	0	14697	0	302	0	2027			
	At Malden Rd	0	0	NB / WB	SB / EB	NB / WB	SB / EB	NB / WB	SB / EB			
	401 NB On Ramp	3769	0	2808	0	384	0	425	0			
	401 SB Off Ramp	0	4949	0	3457	0	541	0	951			
	Hwy 401 to EC Row Expressway	0	0	NB / WB	SB / EB	NB / WB	SB / EB	NB / WB	SB / EB			
	401 SB Off Ramp	0	15782	0	10963	0	274	0	3445			
	Ojibway Fkwy R	0	0	NB / WB	SB / EB	NB / WB	SB / EB	NB / WB	SB / EB			
	401 NB Off Ramp	5356	0	4911	0	445	0	0	0			
	401 NB On Ramp	1689	0	0	0	0	0	1345	0			
	401 SB Off Ramp	0	1133	0	155	0	14	0	964			
	401 SB On Ramp	0	18909	0	18366	0	542	0	0			
	EC Row Expressway to Hwy 401	0	0	NB / WB	SB / EB	NB / WB	SB / EB	NB / WB	SB / EB			
	401 NB On Ramp	2521	0	0	0	0	0	1554	0			
		0	0									
		0	0									
		0	0									
	FROM		TO									
	S. of Hwy 3 merge/split	24657	Hwy 3/401 NB Off Ramp	0	14332	407		3472				
	Hwy 3/401 NB Off Ramp	13212	Hwy 3/401 NB On Ramp	0	4295	175		2911				
	Hwy 3/401 NB On Ramp	22641	St. Clair/401 NB Off Ramp	0	11602	371		4114				
	St. Clair/401 NB Off Ramp	14884	St. Clair/401 NB On Ramp	0	6788	281		3106				
	St. Clair/401 NB On Ramp	18957	Pulford/401 NB On Ramp	0	9831	331		3739				
	Pulford/401 NB On Ramp	26644	HC Rd/401 NB Off Ramp	0	16248	405		4489				
	HC Rd/401 NB Off Ramp	9413	Malden/401 NB On Ramp	0	2103	61		1856				
	Malden/401 NB On Ramp	13182	Ojibway/401 NB Off Ramp	0	4911	445		2281				
	Ojibway Pkwy/401 NB Off Ramp	7825	Ojibway Pkwy/401 NB On Ramp	0	0	0		2281				
	Ojibway Pkwy/401 NB On Ramp	9515	EC ROW to 401 NB On Ramp	0	0	0		3626				
	EC ROW to 401 NB On Ramp	12617	Canadian Plaza	0	0	0		5116				
		0										
	Canadian Plaza	0	Ojibway/401 SB Off Ramp	0	21442	5		4				
	Ojibway/401 SB Off Ramp	0	Ojibway/401 SB On Ramp	0	20060	4		4				
	Ojibway/401 SB On Ramp	0	401 to EC ROW SB Off Ramp	0	39289	18221		637				
	401 to EC ROW SB Off Ramp	0	Malden/401 SB Off Ramp	0	24273	5859		357				
	Malden/401 SB Off Ramp	0	HC Rd/401 SB On Ramp	0	18666	3616		92				
	HC Rd/401 SB On Ramp	0	Pulford/401 SB Off Ramp	0	36538	19562		419				
	Pulford/401 SB Off Ramp	0	St Clair/401 SB Off Ramp	0	29414	12845		340				
	St Clair/401 SB Off Ramp	0	St Clair/401 SB On Ramp	0	20763	8008		241				
	St Clair/401 SB On Ramp	0	Hwy 3/401 SB Off Ramp	0	27071	12224		298				
	Hwy 3/401 SB Off Ramp	0	Hwy 3/401 SB On Ramp	0	15736	6822		162				
	Hwy 3/401 SB On Ramp	0	S. of Hwy 3 merge/split	0	26996	13093		298				
		0										
		0										
		0										
	Malden		Chappus	401 S. Ramp	9084	11528	7948	10336	341	449	795	742
			401 S. Ramp	401 N. Ramp	10193	7192	8938	6456	381	279	874	457
			N. of 401 N. Ramp	Chappus	6982	8058	6129	7230	261	313	593	515
			Chappus	EC Row S. Ramp	9261	9268	9114	8967	0	0	147	301
			EC Row S. Ramp	EC Row N. Ramp	2620	10207	2499	9937	0	0	121	270
			EC Row N. Ramp	Carmichael	5152	3168	5032	2977	0	0	120	192

**TABLE A-7 24-HOUR ANNUAL AVERAGE DAILY TRAFFIC (AADT) FOR ALTERNATIVE 1B – YEAR 2035**

LOCATION	SECTION		24 Hour AADT-ALT 1B											
			Total Cars and Trucks		Local Cars		Local Trucks		International Cars		International Trucks			
			NB / WB	SB / EB	NB / WB	SB / EB	NB / WB	SB / EB	NB / WB	SB / EB	NB / WB	SB / EB		
HC Road	FROM	TO												
	Riverside	University	6924	5840	6718	5664	203	94	3	1	0	0	81	
	University	Wyandotte	3108	4254	2886	3812	92	124	68	237	62	81		
	Wyandotte	AMB Off Ramp	2131	3370	2085	3201	0	0	46	169	0	0		
	AMB Off Ramp	College	19543	6656	7999	6549	244	106	7545	1	3755	0		
	College St	Girardot St	26227	25933	18469	16494	574	523	6880	5152	303	3764		
	Girardot St	Tecumseh Rd	25638	26525	18403	17853	712	625	6238	4516	284	3530		
	Tecumseh Rd	Dorchester St	28797	29299	21703	21695	867	781	5937	3720	289	3108		
	Dorchester St	Prince Rd/Totten St	28875	30357	22442	23399	768	705	5418	3417	247	2837		
	Prince Rd/Totten St	Malden Rd	31736	34429	25203	27845	865	847	5387	3091	281	2646		
	Malden Rd	Industrial Rd	25383	29967	19460	23370	645	683	5267	3319	10	2695		
	Industrial Rd	EC Row N. Ramp Terminal	28657	32868	22816	26119	734	752	5107	3366	0	2631		
	EC Row N. Ramp Terminal	EC Row S. Ramp Terminal	21298	41670	16270	37553	459	783	4568	3017	0	2817		
S. of EC Row S. Ramp Terminal		30005	32155	24465	27543	684	474	4856	2621	0	1717			
S Service Rd	N. of Bethlehem Ave	Lambton St	0	6174	n/a	5636	n/a	161	n/a	n/a	n/a	377	n/a	0
	Lambton St	Pulford St	0	6440	n/a	6187	n/a	23	n/a	n/a	n/a	230	n/a	0
	Pulford St	Todd Ln/Cabana Rd	0	15723	n/a	15648	n/a	75	n/a	n/a	0	n/a	0	n/a
	Todd Ln/Cabana Rd	Huron Church Line	0	15799	n/a	15091	n/a	134	n/a	n/a	575	n/a	0	n/a
	Huron Church Line	St. Clair College	0	18794	n/a	18666	n/a	127	n/a	n/a	0	n/a	0	n/a
	St. Clair College	Cousineau Dr	0	10735	n/a	8636	n/a	109	n/a	n/a	1699	n/a	n/a	292
	Cousineau Dr	Howard Ave	0	6597	n/a	5540	n/a	95	n/a	n/a	668	n/a	n/a	293
	E. of Howard Ave		0	14106	n/a	13825	n/a	281	n/a	n/a	0	n/a	0	n/a
	N. of Labelle St		30540	0	25730	n/a	569	n/a	4241	n/a	0	n/a	0	n/a
	Labelle St	Grand Marais Rd Ramp	28297	0	26402	n/a	326	n/a	1568	n/a	0	n/a	0	n/a
N Service Rd	Grand Marais Rd Ramp	Pulford St	6100	0	5700	n/a	8	n/a	391	n/a	0	n/a	0	n/a
	Pulford St	Todd Ln/Cabana Rd	6780	0	6766	n/a	13	n/a	0	n/a	0	n/a	0	n/a
	Todd Ln/Cabana Rd	Huron Church Line	12703	0	11954	n/a	151	n/a	597	n/a	0	n/a	0	n/a
	Huron Church Line	St. Clair College	8204	0	8105	n/a	100	n/a	0	n/a	0	n/a	0	n/a
	St. Clair College	Cousineau Dr	0	7954	n/a	1338	n/a	131	n/a	2005	n/a	0	n/a	
	Cousineau Dr	Howard Ave	0	7336	n/a	102	n/a	545	n/a	545	n/a	0	n/a	
	E. of Howard Ave		15472	0	15156	n/a	316	n/a	0	n/a	0	n/a	0	n/a
	EC Row Expressway	GN Booth Dr	11697	11777	11383	10973	146	131	26	19	142	654		
Ojibway Pwy	GN Booth Dr	Sandwich St	11632	11978	11317	10772	146	129	26	19	143	658		
	Sandwich St	Prospect Ave	10788	10588	10661	10469	76	73	52	47	0	0		
	N. of Prospect Ave		10725	10387	10599	10270	75	71	51	46	0	0		
CROSSING ROADS		0	0	NB / WB	SB / EB	NB / WB	SB / EB	NB / WB	SB / EB	NB / WB	SB / EB	NB / WB	SB / EB	
Wyandotte	W of Huron/Church	5008	4886	4627	4439	0	0	381	446	0	0	0	0	
	E of Huron/Church	3648	5398	2803	4299	17	157	770	942	58	0	0	0	
University	W of Huron/Church	1511	1306	1511	1306	0	0	0	0	0	0	0	0	
	E of Huron/Church	2481	2273	2207	2097	124	92	68	57	81	62	0	0	
Riverside	W of Huron/Church	3642	3993	3642	3993	0	0	0	0	0	0	0	0	
AMB Off Ramp	E of Huron/Church	7225	5957	7055	5911	0	0	170	46	0	0	0	0	
AMB On Ramp	E of Huron/Church	0	12464	0	931	0	43	0	7710	0	3781	0	0	
Patrick	E of Huron/Church	6917	0	223	6	0	6	0	6416	0	273	0	0	
College St	AMB	Wyandotte	4205	4873	389	969	12	42	3571	3469	234	394		
	E. of HC Road		6758	6581	6583	5598	172	130	4	579	0	273		
Girardot St	W. of HC Road		2272	1076	1730	1027	0	0	542	48	0	0		
	E. of HC Road		1162	1155	1037	1025	0	0	125	130	0	0		
Tecumseh Rd	W. of HC Road		2290	2168	2202	2169	42	26	47	33	0	0		
	E. of HC Road		6210	7294	5868	6315	140	146	202	468	0	366		
Dorchester St	W. of HC Road		6679	7355	6321	7251	0	0	357	104	0	0		
	E. of HC Road		1748	1574	1561	1382	0	0	187	191	0	0		
Prince Rd/Totten St	W. of HC Road		1419	807	1368	785	26	11	24	11	0	0		
	E. of HC Road		2311	2888	2228	2764	0	0	83	125	0	0		
Malden Rd	W. of HC Road		5053	5710	4985	5636	0	0	68	85	0	0		
	E. of HC Road		1858	1508	1545	990	0	0	313	519	0	0		
Industrial Rd	W. of HC Road		8633	9314	7378	7922	405	408	599	52	251	932		
	E. of HC Road		4362	3864	3613	3596	45	56	697	185	7	27		
EC Row N. Ramp Terminal	W. of HC Road		4490	3594	4310	3115	179	210	0	0	0	269		
	E of HC Road (E-N/S Off Ramp & S-W On Ramp)		16852	2214	15527	1966	327	6	998	242	0	0		
EC Row S. Ramp Terminal	W. of HC Road (N-W On Ramp)		624	0	389	n/a	11	n/a	48	n/a	176	n/a		
EC Row S. Ramp Terminal	E. of HC Road (S-E On Ramp)		0	12051	n/a	11928	n/a	124	n/a	0	n/a	0	0	
Labelle St/Bethlehem Ave	W. of HC Road (N-E On Ramp & W-N/S Off Ramp)		10047	3314	8650	2901	325	91	465	322	607	0		
Grand Marais Rd/Lambton Rd	E. of N. Service Rd		3336	2617	3077	2391	0	0	259	226	0	0		
	between N. and S. Service Rd		1573	3934	1573	3822	0	0	0	112	0	0		
Pulford St	W. of S. Service Rd		2055	3283	2053	3279	0	0	2	4	0	0		
	between N. and S. Service Rd		5010	3929	4753	3657	0	0	257	372	0	0		
Todd Ln/Cabana Rd	W. of S. Service Rd		2056	2428	1973	2362	37	25	46	41	0	0		
	between N. and S. Service Rd		1748	2330	1550	2076	0	0	199	254	0	0		
Huron Church Line	E. of N. Service Rd		1672	1483	1672	1282	0	0	0	201	0	0		
	between N. and S. Service Rd		1413	1051	1372	1023	28	10	13	18	0	0		
St Clair College	E. of N. Service Rd		10586	8495	10025	7623	0	0	561	872	0	0		
	between N. and S. Service Rd		10926	11224	10926	9600	0	0	0	1623	0	0		
Cousineau Dr	W. of S. Service Rd		13701	12917	13683	12906	0	0	18	12	0	0		
	between N. and S. Service Rd		1480	6252	1426	5740	53	96	0	416	0	0		
Howard Ave	W. of S. Service Rd		9041	7983	8500	7407	120	122	422	455	0	0		
	between N. and S. Service Rd		3387	9168	3288	8903	0	0	99	265	0	0		
EC Row Expressway	E. of N. Service Rd		2706	2988	2706	2790	0	0	0	199	0	0		
	between N. and S. Service Rd		5516	4382	4478	3440	0	0	1038	941	0	0		
GN Booth Dr	W. of S. Service Rd		9207	7923	7335	7920	0	3	1822	0	0	0		
	between N. and S. Service Rd		12218	8024	12218	8015	0	8	0	0	0	0		
Sandwich St	E. of N. Service Rd		9246	10454	9089	10255	157	196	0	4	0	0		
	between N. and S. Service Rd		13678	8725	13368	8531	238	192	72	1	0	0		
Prospect Ave	W. of S. Service Rd		3546	17014	3328	16593	284	375	34	46	0	0		
	E. of Ojibway Pwy		21804	9791	20977	9262	509	404	173	100	145	25		
W. of Ojibway Pwy	W. of Ojibway Pwy		30784	13314	23810	13024	324	290	6487	0	163	0		
	E. of Huron Church Rd		49462	56583	44205	48832	932	1039	3586	4703	738	2009		
Sandwich St	At Malden Rd		35168	37219	30617	30207	642	678	2860	4783	1049	1550		
	W. of Matchette		25630	9791	24688	9262	591	404	190	100	160	25		
Prospect Ave	W. of Ojibway Pwy		357	461	347	448	7	5	5	5	0	0		
	W. of Ojibway Pwy		1775	1630	1598	1499	156	102	21	29	0	0		
Prospect Ave	W. of Ojibway Pwy		342	437	331	425	7	5	4	7	0	0		

TABLE A-7 CONT'D.

HIGHWAY 401 Mainline				NB / WB	SB / EB	NB / WB	SB / EB	NB / WB	SB / EB	
S. of Hwy 3 merge/split		27629	31034	15756	14266	470	335	3700	3704	
N. of Howard Ave		26044	30301	12902	12639	438	311	4634	4475	
At Grand Marais Rd		29920	40606	17705	20616	450	434	4996	6262	
E. of Malden Rd		11204	22878	2232	3767	66	93	2087	4513	
To/From Canadian Plaza		14748	24132	1	5	3	4	5779	10031	
		0	0							
		0	0							
		0	0							
HIGHWAY 401 Ramps				NB / WB	SB / EB	NB / WB	SB / EB	NB / WB	SB / EB	
Hwy 3 merge/split		0	0	9359	0	201	0	1519	0	
401 NB Off Ramp		11862	0	9541	0	186	0	0	0	
401 NB On Ramp		9728	0	10383	0	10185	0	198	0	
401 SB Off Ramp		0	10383	0	10185	0	198	0	0	
401 SB On Ramp		0	11814	0	8406	0	211	0	2468	
At St. Clair College		0	0	NB / WB	SB / EB	NB / WB	SB / EB	NB / WB	SB / EB	
401 NB Off Ramp		7753	0	7681	0	72	0	0	0	
401 NB On Ramp		4124	0	3608	0	32	0	484	0	
401 SB Off Ramp		0	7944	0	6278	0	77	0	1309	
401 SB On Ramp		0	6223	0	6186	0	37	0	0	
At Pulford St		0	0	NB / WB	SB / EB	NB / WB	SB / EB	NB / WB	SB / EB	
401 NB On Ramp		7737	0	6735	0	106	0	896	0	
401 SB Off Ramp		0	8464	0	7380	0	87	0	997	
401 SB On Ramp		0	0	NB / WB	SB / EB	NB / WB	SB / EB	NB / WB	SB / EB	
At Huron Church Rd		18741	0	15456	0	383	0	2902	0	
401 NB Off Ramp		0	18845	0	14711	0	296	0	2235	
401 SB On Ramp		0	0	NB / WB	SB / EB	NB / WB	SB / EB	NB / WB	SB / EB	
At Malden Rd		4147	0	2986	0	436	0	516	0	
401 NB On Ramp		0	5453	0	3888	0	536	0	1059	
401 SB Off Ramp		0	0	NB / WB	SB / EB	NB / WB	SB / EB	NB / WB	SB / EB	
Hwy 401 to EC Row Expressway		0	18179	0	12269	0	312	0	4261	
401 SB Off Ramp		0	0	NB / WB	SB / EB	NB / WB	SB / EB	NB / WB	SB / EB	
Ojibway Pkwy IC		0	0	5218	0	503	0	0	0	
401 NB Off Ramp		5721	0	0	0	0	0	1413	0	
401 NB On Ramp		1805	0	0	0	0	0	0	990	
401 SB Off Ramp		0	1294	0	282	0	22	0	0	
401 SB On Ramp		0	22906	0	22242	0	664	0	0	
EC Row Expressway to Hwy 401		0	0	NB / WB	SB / EB	NB / WB	SB / EB	NB / WB	SB / EB	
401 NB On Ramp		3029	0	0	0	0	0	1865	0	
		0	0							
		0	0							
		0	0							
FROM		TO								
Highway 401 Mainline Vd	S. of Hwy 3 merge/split	Hwy 3/401 NB Off Ramp	27629	0	15756	470	3700			
	Hwy 3/401 NB Off Ramp	Hwy 3/401 NB On Ramp	16599	0	5315	235	3408			
	Hwy 3/401 NB On Ramp	St. Clair/401 NB Off Ramp	26044	0	12902	438	4634			
	St. Clair/401 NB Off Ramp	St. Clair/401 NB On Ramp	17780	0	7769	332	3636			
	St. Clair/401 NB On Ramp	Pulford/401 NB On Ramp	21972	0	11030	378	4243			
	Pulford/401 NB On Ramp	HC Rd/401 NB Off Ramp	29920	0	17705	450	4996			
	HC Rd/401 NB Off Ramp	Malden/401 NB On Ramp	11204	0	2232	66	2087			
	Malden/401 NB On Ramp	Ojibway/401 NB Off Ramp	15351	0	5218	503	2603			
	Ojibway Pkwy/401 NB Off Ramp	Ojibway Pkwy/401 NB On Ramp	9630	0	0	0	2603			
	Ojibway Pkwy/401 NB On Ramp	EC Row to 401 NB On Ramp	11436	0	0	0	4016			
	EC Row to 401 NB On Ramp	Canadian Plaza	14744	0	0	0	5779			
			0	0						
		Canadian Plaza	Ojibway/401 SB Off Ramp	0	24132	5	4	10031		
		Ojibway/401 SB Off Ramp	Ojibway/401 SB On Ramp	0	22568	5	3	9312		
		Ojibway/401 SB On Ramp	401 to EC ROW SB Off Ramp	0	46534	19725	681	9840		
		401 to EC ROW SB Off Ramp	Malden/401 SB Off Ramp	0	29106	6163	354	5724		
		Malden/401 SB Off Ramp	HC Rd/401 SB On Ramp	0	22878	3767	93	4513		
		HC Rd/401 SB On Ramp	Pulford/401 SB Off Ramp	0	40606	20616	434	6262		
		Pulford/401 SB Off Ramp	St Clair/401 SB Off Ramp	0	32261	12884	346	5298		
		St Clair/401 SB Off Ramp	St Clair/401 SB On Ramp	0	23591	8255	251	3913		
		St Clair/401 SB On Ramp	Hwy 3/401 SB Off Ramp	0	30301	12639	311	4475		
		Hwy 3/401 SB Off Ramp	Hwy 3/401 SB On Ramp	0	18464	7400	177	2904		
		Hwy 3/401 SB On Ramp	S. of Hwy 3 merge/split	0	31034	14266	335	3704		
				0	0					
			0	12707	8232	365	772			
Malden	Chappus	401 S. Ramp	9447	10979	6705	410	851	460		
	401 S. Ramp	401 N. Ramp	10678	7440	9326	275	941	460		
	N. of 401 N. Ramp		7149	8393	6252	274	632	522		
Matchette	Chappus	EC Row S. Ramp	9542	10489	9486	10131	56	359		
	EC Row S. Ramp	EC Row N. Ramp	2675	11452	2641	10945	34	507		
	EC Row N. Ramp	Carmichael	5719	3318	5681	2975	39	343		

**TABLE A-8 24-HOUR ANNUAL AVERAGE DAILY TRAFFIC (AADT) FOR ALTERNATIVE 2A – YEAR 2015**

LOCATION	SECTION		Total Cars and Trucks	24 Hour AADT									
				Local Cars		Local Trucks		International Cars		International Trucks			
				NB / WB	SB / EB	NB / WB	SB / EB	NB / WB	SB / EB	NB / WB	SB / EB		
HC Road	FROM	TO	6939	5479	6763	5390	1173	85	3	1	0	0	3
	Riverside	University	3286	3971	3111	3681	390	119	65	198	20	3	3
	University	Wyandotte	2256	3176	2211	3045	0	0	544	131	0	0	0
	Wyandotte	AMB Off Ramp	17371	6347	8806	6251	231	96	6173	1	2162	0	0
	AMB Off Ramp	College	24380	23704	17474	16649	522	486	6193	4360	192	2209	0
	College St	Girardot St	23677	23943	17362	17487	621	567	5577	3775	176	2114	0
	Girardot St	Tecumseh Rd	27103	27831	20829	21671	768	720	5325	3452	181	1987	0
	Tecumseh Rd	Dorchester St	27021	29147	21353	23522	685	653	4826	3173	156	1799	0
	Dorchester St	Prince Rd/Totten St	30230	32345	23703	26772	763	750	4676	3162	177	1660	0
	Prince Rd/Totten St	Malden Rd	24228	32223	18911	21704	573	566	4737	3352	7	1601	0
	Malden Rd	Industrial Rd	25932	29960	20829	23841	635	632	4457	3024	0	1593	0
	Industrial Rd	EC Row N. Ramp Terminal	19860	35172	15536	30518	425	631	3900	2716	0	1307	0
	EC Row N. Ramp Terminal	EC Row S. Ramp Terminal	25770	26218	23080	22647	449	380	2181	2159	0	1032	0
	EC Row S. Ramp Terminal	Highway 401 Offramp	11401	7335	10669	6674	78	97	654	564	0	0	0
	Highway 401 Offramp	Spring Gdn Rd/Labelle St	9600	7397	9076	6728	111	134	413	516	0	0	0
	Spring Gdn Rd/Labelle St	Lambton St/Grand Marais Rd Ramp	8208	6730	7863	6452	136	37	209	240	0	0	0
	Lambton St/Grand Marais Rd Ramp	Pulford St	8156	7395	8053	7308	152	50	0	37	0	0	0
	Pulford St	Todd Ln/Cabana Rd	11076	13226	10252	12558	126	153	697	461	0	54	0
	Todd Ln/Cabana Rd	Huron Church Line	6414	7682	5522	6832	8	0	884	850	0	0	0
	Huron Church Line	St Clair College	9895	6404	8455	6404	10	0	1430	0	0	0	0
St Clair College	Cousineau Dr	9831	5472	9730	5472	21	0	81	0	0	0	0	
Cousineau Dr	Howard Ave	15176	13247	14885	12943	291	278	0	25	0	0	0	
Howard Ave	EC Row Expressway	10181	11207	9922	10623	136	139	32	15	90	430	0	
EC Row Expressway	GN Booth Dr	10116	10994	9857	10411	136	136	32	15	91	432	0	
GN Booth Dr	Sandwich St	9487	9723	9360	9610	75	78	52	35	0	0	0	
Sandwich St	N. of Prospect Ave	9424	9512	9298	9402	74	76	52	34	0	0	0	
N. of Prospect Ave		0	0	0	0	0	0	0	0	0	0	0	
CROSSING ROADS			0	0	0	0	0	0	0	0	0	0	0
Wyandotte	W of Huron Church		5192	4872	4834	4441	0	0	358	431	0	0	0
	E of Huron Church		3616	5077	2850	4074	21	137	726	867	18	0	0
University	W of Huron Church		1267	1128	1267	1128	0	0	0	0	0	0	0
	E of Huron Church		2139	2145	1950	2014	119	90	67	21	3	20	0
Riverside	W of Huron Church		3368	3642	3367	3642	0	0	0	0	0	0	0
	E of Huron Church		6739	5763	6608	5719	0	0	132	45	0	0	0
AMB Off Ramp	E of Huron Church		3	10035	0	1643	0	60	0	6170	3	2162	0
AMB On Ramp	E of Huron Church		6302	0	317	0	12	0	5799	0	174	0	0
Patricia	AMB	Wyandotte	4102	5173	567	1642	22	58	3342	3241	171	231	0
College St	E. of HC Road		6642	6443	6465	5630	175	132	3	532	0	150	0
	W. of HC Road		1777	805	1566	746	0	0	210	59	0	0	0
Girardot St	E. of HC Road		1127	1161	1060	1052	0	0	68	109	0	0	0
	W. of HC Road		2338	2273	2178	2149	36	29	114	91	9	4	0
Tecumseh Rd	E. of HC Road		5983	6760	5638	6115	134	150	211	357	0	137	0
	W. of HC Road		6444	6926	6286	6802	0	0	147	125	0	0	0
Dorchester St	E. of HC Road		1706	1536	1605	1382	0	0	102	155	0	0	0
	W. of HC Road		1417	807	1321	762	23	10	64	34	8	1	0
Prince Rd/Totten St	E. of HC Road		2112	2713	2040	2591	0	0	73	121	0	0	0
	W. of HC Road		4860	5238	4778	5165	0	0	82	73	0	0	0
Malden Rd	E. of HC Road		1376	1114	1175	931	0	0	201	183	0	0	0
	W. of HC Road		7502	7026	6483	6223	368	337	484	36	168	431	0
Industrial Rd	E. of HC Road		3634	3450	3427	3215	46	55	146	164	6	16	0
	W. of HC Road		3911	3157	3764	2787	147	191	0	0	0	179	0
EC Row N. Ramp Terminal	E-N/S Ramp		13740	0	12487	n/a	266	n/a	987	n/a	0	n/a	0
	N-W Ramp		0	768	n/a	731	n/a	0	n/a	37	n/a	0	0
	S-W Ramp		1562	0	913	n/a	28	n/a	92	n/a	528	n/a	0
EC Row S. Ramp Terminal	W-N/S Ramp		0	2804	n/a	2461	n/a	47	n/a	297	n/a	0	0
	S-N-E Ramp		0	16908	n/a	15627	n/a	296	n/a	762	n/a	224	0
Spring Gdn Rd	W. of HC Road		2322	3118	2320	3114	0	0	2	4	0	0	0
Labelle St	E. of HC Road		3606	1866	3338	1722	0	0	268	144	0	0	0
Lambton St/Grand Marais Rd Ramp	E. of HC Road		5266	4439	5171	4240	0	0	95	198	0	0	0
Pulford St	E. of HC Road		3301	1925	3090	1739	0	0	211	186	0	0	0
Cabana Rd	E. of HC Road		8027	6614	7381	6096	0	0	646	518	0	0	0
	between HC Road and Hwy 401 NB Ramps		19842	19082	19803	17449	39	127	0	1440	0	66	0
Todd Lane	between Hwy 401 NB and SB Ramps		12043	16536	12020	14962	24	113	0	1413	0	48	0
	W. of Hwy 401 SB Ramps		11370	9895	11358	9885	0	0	12	10	0	0	0
Huron Church Line	W. of HC Road		7444	6031	7091	5637	97	80	234	394	22	0	0
	E. of Talbot Road		3144	9599	2984	9148	0	0	160	451	0	0	0
St Clair College	E. of Talbot Road		5464	5233	5464	4248	0	0	0	985	0	0	0
	W. of Talbot Road		7233	6365	7233	6365	0	0	0	0	0	0	0
Howard Ave	E. of Talbot Rd		8134	10557	7723	10360	128	195	283	2	0	0	0
	between Talbot Road and Hwy 401 SB On-Ramp		14444	7334	13285	7183	208	150	951	0	0	0	0
E.C. Row Expressway	W. of Hwy 401 SB On-Ramp		12559	14692	12302	14210	247	290	11	192	0	0	0
	E. of Huron Church Rd		34790	44695	31509	39193	678	807	2214	3455	390	1241	0
	At Malden Rd		23297	29858	20975	25038	452	548	1325	3220	545	1052	0
	W. of Matchette		16051	8173	15597	7773	364	401	23	0	66	0	0

TABLE A-8 CONT'D.

HIGHWAY 401 Mainline		1995	21565	11368	10615	328	247	3123	3042	5139	7655
S. of Hwy 3 merge/split		17735	23313	10196	12593	329	261	3213	3711	3997	6748
N. of Howard Ave		22373	29083	14531	16280	371	352	3805	4866	3667	7586
At Grand Marais Rd		7274	13482	1781	3389	56	260	1583	3109	3854	6724
E. of Malden Rd		9984	18028	0	4	2	3	4208	8509	5773	9512
To From Canadian Plaza		0	0	0	0	0	0	0	0	0	0
HIGHWAY 401 Ramps		0	0	0	0	0	0	0	0	0	0
Hwy 3 merge/split		0	0	0	0	0	0	0	0	0	0
401 NB Off Ramp		11467	0	9792	0	203	0	972	0	499	0
401 NB On Ramp		9736	0	9534	0	193	0	9	0	0	0
401 SB Off Ramp		0	9952	0	9770	0	182	0	0	0	0
401 SB On Ramp		0	10350	0	7899	0	198	0	1822	0	431
Howard Ave		0	0	0	0	0	0	0	0	0	0
401 NB Off Ramp		0	3146	0	2588	0	34	0	525	0	0
At Todd Lane/Cabana Rd		0	0	0	0	0	0	0	0	0	0
401 NB Off Ramp		6875	0	6800	0	75	0	0	0	0	0
401 NB On Ramp		11458	0	10190	0	115	0	1153	0	0	0
401 SB Off Ramp		0	13410	0	11959	0	130	0	1245	0	77
401 SB On Ramp		0	7896	0	7872	0	25	0	0	0	0
At Huron Church Rd		0	0	0	0	0	0	0	0	0	0
401 NB Off Ramp		15244	0	12787	0	321	0	2136	0	0	0
401 SB On Ramp		0	15712	0	12540	0	253	0	1894	0	1025
At Malden Rd		0	0	0	0	0	0	0	0	0	0
401 NB On Ramp		3175	0	2469	0	395	0	255	0	56	0
401 SB Off Ramp		0	4144	0	2712	0	564	0	868	0	0
EC Row Expressway to Hwy 401		0	0	0	0	0	0	0	0	0	0
401 SB Off Ramp		0	13781	0	9034	0	232	0	2770	0	845
Ojibway Pkwy IC		0	0	0	0	0	0	0	0	0	0
401 NB Off Ramp		4701	0	4249	0	451	0	0	0	0	0
401 NB On Ramp		1495	0	0	0	0	0	1221	0	274	0
401 SB Off Ramp		0	1092	0	122	0	15	0	955	0	0
401 SB On Ramp		0	14959	0	14528	0	431	0	0	0	0
EC Row Expressway IC		0	0	0	0	0	0	0	0	0	0
401 NB On Ramp		2178	0	0	0	0	0	1387	0	791	0
0		0	0	0	0	0	0	0	0	0	0
0		0	0	0	0	0	0	0	0	0	0
0		0	0	0	0	0	0	0	0	0	0
FROM	TO	1995	21565	11368	10615	328	247	3123	3042	5139	7655
S. of Hwy 3 merge/split	Hwy 3/401 NB Off Ramp	19958	0	11368	0	328	0	3123	0	5139	0
Hwy 3/401 NB On Ramp	Hwy 3/401 NB On Ramp	7751	0	2888	0	129	0	2068	0	2646	0
Hwy 3/401 NB On Ramp	Todd/401 NB Off Ramp	17735	0	10196	0	329	0	3213	0	3997	0
Todd/401 NB Off Ramp	Todd/401 NB On Ramp	10510	0	5483	0	237	0	2332	0	2458	0
Todd/401 NB On Ramp	HC Rd/401 NB On Ramp	22373	0	14531	0	371	0	3805	0	3667	0
HC Rd/401 NB On Ramp	Malden/401 NB On Ramp	7274	0	1781	0	56	0	1583	0	3854	0
Malden/401 NB On Ramp	Ojibway/401 NB Off Ramp	10449	0	4249	0	451	0	1838	0	3910	0
Ojibway Pkwy/401 NB Off Ramp	Ojibway Pkwy/401 NB On Ramp	5748	0	0	0	0	0	1838	0	3910	0
Ojibway Pkwy/401 NB On Ramp	EC ROW to 401 NB On Ramp	7243	0	0	0	0	0	3059	0	4184	0
EC ROW to 401 NB On Ramp	Canadian Plaza	9984	0	0	0	0	0	4208	0	5773	0
Canadian Plaza	Ojibway/401 SB Off Ramp	0	18028	0	4	0	3	8509	0	9512	0
Ojibway/401 SB Off Ramp	Ojibway/401 SB On Ramp	0	16743	0	4	0	2	7859	0	8877	0
Ojibway/401 SB On Ramp	401 to EC ROW SB Off Ramp	0	31610	0	15975	0	574	6705	0	8355	0
401 to EC ROW SB Off Ramp	Malden/401 SB Off Ramp	0	18476	0	4689	0	358	4135	0	9294	0
Malden/401 SB Off Ramp	HC Rd/401 SB On Ramp	0	13766	0	2827	0	84	2174	0	7681	0
HC Rd/401 SB On Ramp	Todd/401 SB Off Ramp	0	29083	0	16280	0	352	4866	0	7586	0
Todd/401 SB Off Ramp	Todd/401 SB On Ramp	0	14880	0	6555	0	175	2996	0	5155	0
Todd/401 SB On Ramp	Howard/401 SB Off Ramp	0	23313	0	12593	0	261	3711	0	6748	0
Howard/401 SB Off Ramp	Hwy 3/401 SB On Ramp	0	20121	0	10107	0	226	3176	0	6611	0
Hwy 3/401 SB On Ramp	Hwy 3/401 SB On Ramp	0	9149	0	4265	0	91	1649	0	3143	0
Hwy 3/401 SB On Ramp	S. of Hwy 3 merge/split	0	21565	0	10615	0	247	3042	0	7655	0
0		0	0	0	0	0	0	0	0	0	0
0		0	0	0	0	0	0	0	0	0	0
0		0	0	0	0	0	0	0	0	0	0
Grand Marais Rd	E. of connecting ramp	3799	3589	3730	3436	0	0	68	153	0	0
	W. of connecting ramp	2354	2360	2283	2301	34	21	37	38	0	0
FROM	TO	0	0	0	0	0	0	0	0	0	0
Malden	Chappus	401 S. Ramp	401 N. Ramp	8790	10386	7820	9202	336	442	634	742
	401 S. Ramp	9781	6822	8710	6031	373	293	697	499	0	0
N. of 401 N. Ramp	EC Row S. Ramp	7017	7519	6261	6651	267	322	490	546	0	0
Chappus	EC Row N. Ramp	7691	7482	7601	7389	0	0	90	93	0	0
Matchette	EC Row N. Ramp	2330	8609	2243	8524	0	0	86	85	0	0
	Carmichael	4642	2938	4564	2871	0	0	79	67	0	0

TABLE A-9 24-HOUR ANNUAL AVERAGE DAILY TRAFFIC (AADT) FOR ALTERNATIVE 2A – YEAR 2025

LOCATION	SECTION		24 Hour AADT											
	FROM	TO	Total Cars and Trucks		Local Cars		Local Trucks		International Cars		International Trucks			
			NB / WB	SB / EB	NB / WB	SB / EB	NB / WB	SB / EB	NB / WB	SB / EB	NB / WB	SB / EB		
HC Road	Riverside	University	7062	5644	6879	5510	180	92	3	1	0	41		
	University	WYandotte	3349	4081	3138	3726	88	124	67	191	56	41		
	WYandotte	AMB Off Ramp	2254	3201	2188	3074	0	0	45	128	0	0		
	AMB Off Ramp	College St	18219	6483	8649	6379	229	103	6543	1	2797	0		
	College St	Girardot St	25180	25325	17875	17285	580	519	6510	4605	245	2918		
	Girardot St	Tecumseh Rd	24378	25437	17721	18423	662	603	5770	3971	226	2741		
	Tecumseh Rd	Dorchester St	27806	28711	21215	22028	818	751	5543	3513	230	2420		
	Dorchester St	Prince Rd/Totten St	27999	30476	22001	24262	734	690	5064	3277	200	2247		
	Prince Rd/Totten St	Malden Rd	30399	34133	24456	28088	820	807	4895	3216	228	2022		
	Malden Rd	Industrial Rd	25181	28820	19557	22795	629	615	4986	2441	9	1979		
	Industrial Rd	EC Row N. Ramp Terminal	27797	38923	22122	25209	711	686	4723	3036	0	1963		
	EC Row N. Ramp Terminal	EC Row S. Ramp Terminal	21217	39953	16550	34662	480	730	4187	2860	0	1700		
	EC Row S. Ramp Terminal	Highway 401 Offramp	28699	30391	28613	26275	527	460	2559	2338	0	1316		
	Highway 401 Offramp	Spring Gdn Rd/Labelle St	12069	8877	11292	8073	89	137	688	666	0	0		
	Spring Gdn Rd/Labelle St	Lambton St/Grand Marais Rd Ramp	10251	8762	9687	7975	134	190	431	596	0	0		
	Lambton St/Grand Marais Rd Ramp	Pulford St	8577	8072	8242	7776	152	50	183	246	0	0		
	Pulford St	Todd Ln/Cabana Rd	8811	8686	8646	8568	165	62	0	56	0	0		
	Todd Ln/Cabana Rd	Huron Church Line	12791	14745	11885	14051	155	158	801	470	0	66		
	Huron Church Line	St Clair College	6864	7897	5765	7199	13	8	1087	787	0	0		
	St Clair College	Cousineau Dr	10440	7016	8799	7016	12	0	1628	0	0	0		
Cousineau Dr	Howard Ave	10484	6168	10900	6162	46	3	138	0	0	0			
Howard Ave	Highway 3 split	16424	14899	16103	14544	320	315	0	41	0	0			
Ojibway Pwy	EG Row Expressway	GN Booth Dr	10894	11526	10615	10841	139	134	27	21	113	531		
	GN Booth Dr	Sandwich St	10830	11322	10550	10636	139	132	27	21	114	533		
	Sandwich St	Prospect Ave	10088	10109	9966	9995	74	74	48	41	0	0		
N of Prospect Ave		10025	9899	9904	9787	73	72	48	40	0	0			
		0	0	0	0	0	0	0	0	0	0			
CROSSING ROADS			0	0	0	0	0	0	0	0	0	0		
Wyandotte	W of Huron Church		5112	3861	4742	4425	0	0	370	436	0	0		
	E of Huron Church		3628	5148	2809	4146	18	141	749	860	51	0		
University	W of Huron Church		1388	1254	1358	1254	0	0	0	0	0	0		
	E of Huron Church		2312	2856	2083	2192	124	88	63	21	41	56		
Riverside	W of Huron Church		3548	3770	3547	3769	0	0	0	0	0	0		
	E of Huron Church		6951	5853	6822	5807	0	0	128	46	0	0		
AMB Off Ramp	E of Huron Church		41	10798	0	1407	0	54	0	6540	41	2797		
AMB On Ramp	E of Huron Church		6604	0	276	0	7	0	6098	0	223	0		
Patricia	AMB	Wyandotte	4153	5101	498	1407	14	51	3456	3338	193	305		
	College St		6747	6609	6567	5748	178	133	2	534	0	192		
Girardot St	W of HC Road		2013	899	1466	857	0	0	546	43	0	0		
	E of HC Road		1152	1167	1065	1057	0	0	66	110	0	0		
Tecumseh Rd	W of HC Road		2282	2206	2131	2092	33	27	108	83	11	4		
	E of HC Road		5758	6765	5430	5973	128	147	200	400	0	245		
Dorchester St	W of HC Road		6335	6833	6273	6703	0	0	62	130	0	0		
	E of HC Road		1738	1562	1638	1406	0	0	101	156	0	0		
Prince Rd/Totten St	W of HC Road		1418	807	1323	764	22	10	63	31	10	2		
	E of HC Road		2259	2683	2177	2562	0	0	83	121	0	0		
Malden Rd	W of HC Road		5023	5427	4937	5354	0	0	87	73	0	0		
	E of HC Road		1681	1348	1422	1098	0	0	259	250	0	0		
Industrial Rd	W of HC Road		7798	7050	6763	6083	368	315	461	90	206	562		
	E of HC Road		3903	3861	3702	3605	47	56	146	180	8	21		
EC Row N. Ramp Terminal	W of HC Road		4306	3451	4136	3003	171	199	0	0	0	250		
	E-N/S Ramp		16099	0	14751	n/a	313	n/a	1035	n/a	0	n/a		
EC Row S. Ramp Terminal	N-W Ramp		0	889	n/a	846	n/a	0	n/a	43	n/a	0		
	S-W Ramp		1642	0	882	n/a	31	n/a	91	n/a	638	n/a		
	W-N/S Ramp		0	2910	n/a	2478	n/a	63	n/a	369	n/a	0		
Spring Gdn Rd	S-N/E Ramp		0	19396	n/a	17986	n/a	362	n/a	704	n/a	344		
	W of HC Road		2322	3118	2320	3114	0	0	2	4	0	0		
Labelle St	E of HC Road		3883	2060	3589	1905	0	0	294	154	0	0		
	W of HC Road		5269	4900	5182	4700	0	0	88	200	0	0		
Lambton St/Grand Marais Rd Ramp	E of HC Road		2975	1517	2788	1379	0	0	186	138	0	0		
Pulford St	E of HC Road		8534	7653	7859	7079	0	0	674	574	0	0		
	W of HC Road		21977	20565	21920	18772	56	136	0	1574	0	82		
Cabana Rd	between HC Road and Hwy 401 NB Ramps		12917	18098	12884	16383	33	123	0	1528	0	63		
	between Hwy 401 NB and SB Ramps		12182	10099	12168	10089	0	0	14	10	0	0		
Todd Lane	W of Hwy 401 SB Ramps		8588	7611	8180	7131	100	102	278	378	29	0		
Huron Church Line	W of HC Road		3254	9546	3141	9151	0	0	112	396	0	0		
St Clair College	E of Talbot Road		5707	5513	5707	4478	0	0	1034	0	0	0		
Cousineau Dr	W of Talbot Road		8167	7000	8163	6968	4	51	0	0	0	0		
	E of Talbot Rd		8765	11517	8327	11296	138	218	289	2	10	0		
Howard Ave	between Talbot Road and Hwy 401 SB On-Ramp		15646	3026	14389	7858	223	168	1019	1	15	0		
	W of Hwy 401 SB On-Ramp		13654	16628	13377	16078	261	331	15	219	0	0		
E.C. Row Expressway	E of Huron Church Rd		43065	50397	38745	43645	822	917	2922	4191	575	1644		
	At Malden Rd		29382	32888	25989	26982	552	588	2030	4004	810	1315		
	W of Matchette		20854	9029	20264	8624	472	404	23	0	96	0		



TABLE A-9 CONTD.

HIGHWAY 401 Mainline													
	S. of Hwy 3 merge/split	24670	27043	14218	12940	422	298	3520	3423	6511	10381		
	N. of Howard Ave	21980	28889	12049	14451	400	303	3864	4416	5668	9719		
	At Grand Marais Rd	26683	36031	16706	19084	437	407	4489	5716	5051	10824		
	E. of Malden Rd	9431	18798	2001	4411	62	284	1896	3861	5472	10242		
	To/From Canadian Plaza	12619	21461	1	6	3	2	5114	9382	7501	12070		
		0	0										
		0	0										
	HIGHWAY 401 Ramps												
	Hwy 3 merge/split												
	401 NB Off Ramp	12564	0	10486	0	220	0	1173	0	686	0		
	401 NB On Ramp	9748	0	9542	0	194	0	12	0	0	0		
	401 SB Off Ramp	0	10144	0	9950	0	193	0	0	0	0		
	401 SB On Ramp	0	11816	0	8453	0	207	0	2452	0	704		
	Howard Ave												
	401 NB Off Ramp	0	3457	0	2297	0	38	0	613	0	9		
	At Todd Lane/Cubana Rd												
	401 NB Off Ramp	7973	0	7883	0	90	0	0	0	0	0		
	401 NB On Ramp	32703	0	11246	0	135	0	1322	0	0	0		
	401 SB Off Ramp	0	14847	0	13130	0	146	0	1461	0	110		
	401 SB On Ramp	0	8077	0	8041	0	36	0	0	0	0		
	At Huron Church Rd												
	401 NB Off Ramp	17534	0	14695	0	381	0	2458	0	0	0		
	401 SB On Ramp	0	11621	0	13805	0	282	0	2112	0	1422		
	At Malden Rd												
	401 NB On Ramp	3749	0	2798	0	419	0	447	0	85	0		
	401 SB Off Ramp	0	4953	0	3650	0	426	0	877	0	0		
	EC Row Expressway to Hwy 401												
	401 SB Off Ramp	0	15448	0	10506	0	265	0	3518	0	1159		
	Ojibway Pkwy IC												
	401 NB Off Ramp	0	0	4799	0	481	0	0	0	0	0		
	401 NB On Ramp	1689	0	0	0	0	0	1346	0	343	0		
	401 SB Off Ramp	0	1431	0	1393	0	37	0	0	0	0		
	401 SB On Ramp	0	17791	0	4868	0	345	0	12578	0	0		
	EC Row Expressway IC												
	401 NB On Ramp	2537	0	0	0	0	0	1498	0	1039	0		
		0	0										
		0	0										
		0	0										
	FROM		TO										
	S. of Hwy 3 merge/split	Hwy 3/401 NB Off Ramp	24670	0	14218			422		3520		6511	
	Hwy 3/401 NB Off Ramp	Hwy 3/401 NB On Ramp	12076	0	4528			202		2766		4580	
	Hwy 3/401 NB On Ramp	Todd/401 NB Off Ramp	21980	0	12049			400		3864		5668	
	Todd/401 NB Off Ramp	Todd/401 NB On Ramp	13570	0	6532			287		2889		3861	
	Todd/401 NB On Ramp	HC Rd/401 NB On Ramp	26683	0	16706			437		4489		5051	
	HC Rd/401 NB On Ramp	Malden/401 NB On Ramp	9431	0	2001			62		1896		5472	
	Malden/401 NB On Ramp	Ojibway/401 NB Off Ramp	13180	0	4799			481		2343		5557	
	Ojibway Pkwy/401 NB Off Ramp	Ojibway Pkwy/401 NB On Ramp	7900	0	0			0		2343		5557	
	Ojibway Pkwy/401 NB On Ramp	EC ROW to 401 NB On Ramp	9589	0	0			0		3689		5900	
	EC ROW to 401 NB On Ramp	Canadian Plaza	12615	0	0			0		5114		7501	
	Canadian Plaza	Ojibway/401 SB Off Ramp	0	21461				6		2		9382	
	Ojibway/401 SB Off Ramp	Ojibway/401 SB On Ramp	0	20077				6		2		8721	
	Ojibway/401 SB On Ramp	401 to EC ROW SB Off Ramp	0	39274				17983		635		8434	
	401 to EC ROW SB Off Ramp	Malden/401 SB Off Ramp	0	24839				5846		376		8064	
	Malden/401 SB Off Ramp	HC Rd/401 SB On Ramp	0	19308				3431		97		4025	
	HC Rd/401 SB On Ramp	Todd/401 SB Off Ramp	0	36031				19084		407		5716	
	Todd/401 SB Off Ramp	Todd/401 SB On Ramp	0	20218				8095		219		3842	
	Todd/401 SB On Ramp	Howard/401 SB Off Ramp	0	28889				14451		303		4416	
	Howard/401 SB Off Ramp	Hwy 3/401 SB Off Ramp	0	25374				11771		265		3798	
	Hwy 3/401 SB Off Ramp	Hwy 3/401 SB On Ramp	0	14014				6164		134		2297	
	Hwy 3/401 SB On Ramp	S. of Hwy 3 merge/split	0	27043				12940		298		3423	
			0	0									
			0	0									
			0	0									
	Grand Marais Rd	E. of connecting ramp	4299	3821	4229	3669	0	0	69	152	0	0	0
		W. of connecting ramp	2581	2363	2492	2306	45	22	44	35	0	0	0
			0	0									
			0	0									
			0	0									
	FROM	TO											
	Chappus	401 S. Ramp	8678	11100	7624	9939	325	435	729	726	0	0	0
	401 S. Ramp	401 N. Ramp	9788	6764	8614	6053	366	266	807	445	0	0	0
	N. of 401 N. Ramp		6584	7630	5805	6829	246	300	533	502	0	0	0
	Chappus	EC Row S. Ramp	8264	9347	8169	9160	0	0	95	188	0	0	0
	EC Row S. Ramp	EC Row N. Ramp	2290	10334	2210	10162	0	0	80	172	0	0	0
	EC Row N. Ramp	Carmichael	4752	3019	4671	2900	0	0	81	119	0	0	0





**TABLE A- 11 24-HOUR ANNUAL AVERAGE DAILY TRAFFIC (AADT) FOR ALTERNATIVE 2B – YEAR 2015**

LOCATION	SECTION		Total Cars and Trucks	24 Hour AADT										
				Local Cars				International Cars		International Trucks				
				NB	WB	SB	EB	NB	WB	SB	EB	NB	WB	SB
HC Road	Riverside	University	6939	5479	6765	5390	173	85	3	1	0	0	0	0
	University	Wyandotte	3286	3971	3111	3651	90	119	65	198	20	3	3	
	Wyandotte	AMB Off Ramp	2556	3176	2871	3045	0	0	68	131	0	0	0	
	AMB Off Ramp	College St	17371	6347	8806	6251	231	96	6173	1	2162	0	0	
	College St	Girardot St	24380	17301	17074	16649	572	186	6193	4360	192	2709	0	
	Girardot St	Tecumseh Rd	23677	23943	17662	17487	671	567	5517	3776	176	2114	0	
	Tecumseh Rd	Dorchester St	27103	27831	20639	21671	768	720	5335	3452	181	1987	0	
	Dorchester St	Prince Rd/Totten St	27201	26127	21283	23222	685	653	3936	3173	156	1792	0	
	Prince Rd/Totten St	Malden Rd	29270	32445	23703	26287	763	759	4676	3165	177	1660	0	
	Malden Rd	Industrial Rd	34228	37223	8911	21704	573	566	4737	3352	7	1601	0	
	Industrial Rd	EC Row N. Ramp Terminal	75922	29090	39829	23841	635	637	4457	3024	0	1593	0	
	EC Row N. Ramp Terminal	EC Row S. Ramp Terminal	19649	55172	15356	30518	425	631	3990	2716	0	1307	0	
	EC Row S. Ramp Terminal	Highway 401 Offramp	28710	26218	73860	22647	449	380	2181	2159	0	1032	0	
	Highway 401 Offramp	Service Gdn. Rd/Labelle St	13401	7335	10689	6674	78	97	654	561	0	0	0	
	Service Gdn. Rd/Labelle St	Lambton St/Grand Marais Rd Ramp	9090	9777	9076	6728	111	134	413	516	0	0	0	
	Lambton St/Grand Marais Rd Ramp	Palford St	8262	6726	7863	6452	136	37	209	249	0	0	0	
	Palford St	Todd Ln/Cabana Rd	8156	7395	8031	7708	152	50	0	37	0	0	0	
	Todd Ln/Cabana Rd	Huron Church Line	10976	13226	10252	12558	126	153	697	461	0	54	0	
	Talbot Rd	Huron Church Line	St. Clair College	6414	7865	5572	6832	8	0	884	850	0	0	0
		St. Clair College	Cousineau Dr	8855	6093	8455	6404	10	0	1430	0	0	0	0
Cousineau Dr		Howard Ave	9831	5472	9730	5472	21	0	81	0	0	0	0	
Howard Ave		Highway 3 split	15176	13247	14855	12943	291	278	0	25	0	0	0	
Opbway Pay	EC Row Expressway	GN Booth Dr	10181	11207	9922	10623	136	139	32	15	90	430	0	
	GN Booth Dr	Sandwich St	10116	10924	9857	10411	136	136	32	15	91	432	0	
	Sandwich St	Prospect Ave	9487	9723	9709	9610	75	78	52	35	0	0	0	
Prospect Ave	N. of Prospect Ave	9424	9512	9298	9402	74	76	52	34	0	0	0		
CROSSING ROADS														
Wyandotte	W. of Huron Church		4192	4872	4834	4441	0	0	358	431	0	0	0	
	E. of Huron Church		3616	5077	2850	4074	21	137	726	867	18	0	0	
	W. of Huron Church		1267	1128	1267	1128	0	0	0	0	0	0	0	
University	E. of Huron Church		2129	2445	1950	2014	119	90	67	21	3	20	0	
	W. of Huron Church		3368	3642	3367	3642	0	0	0	0	0	0	0	
	E. of Huron Church		6749	6764	6608	5749	0	0	182	14	0	0	0	
AMB Off Ramp	E. of Huron Church	3	10935	0	16454	0	0	0	6170	3	2162	0		
AMB On Ramp	E. of Huron Church	6302	0	312	0	12	0	5799	0	174	0	0		
Patricia	AMB	Wyandotte	4102	5173	567	1642	22	58	3342	3241	171	231	0	
College St	E. of HC Road		6642	6443	6465	5630	174	137	3	537	0	150	0	
	W. of HC Road		1777	805	1566	746	0	0	210	59	0	0	0	
Girardot St	E. of HC Road		1127	1161	1060	1052	0	0	68	109	0	0	0	
	W. of HC Road		2328	2223	2128	2149	36	79	114	91	9	3	0	
Tecumseh Rd	E. of HC Road		5983	6266	5638	6113	131	150	211	157	0	137	0	
	W. of HC Road		6441	6076	6296	6802	0	0	187	124	0	0	0	
Dorchester St	E. of HC Road		1706	1536	1605	1382	0	0	102	155	0	0	0	
	W. of HC Road		1417	807	1321	762	23	10	64	34	8	1	0	
Prince Rd/Totten St	E. of HC Road		2112	2713	2040	2891	0	0	73	121	0	0	0	
	W. of HC Road		4860	5738	4778	5165	0	0	82	73	0	0	0	
Malden Rd	E. of HC Road		1376	1114	1175	931	0	0	201	183	0	0	0	
	W. of HC Road		7502	7026	6483	6223	368	337	484	36	168	431	0	
Industrial Rd	E. of HC Road		2634	2490	2427	2414	26	35	146	164	6	16	0	
	W. of HC Road		3911	3142	2764	2787	147	191	0	0	0	172	0	
EC Row N. Ramp Terminal	E-N-S Ramp		13740	0	12487	n/a	266	n/a	987	n/a	0	n/a	0	
	N-W Ramp		0	768	n/a	731	n/a	n/a	37	n/a	0	n/a	0	
	S-W Ramp		1562	0	913	n/a	28	n/a	92	n/a	528	n/a	0	
EC Row S. Ramp Terminal	W-N-S Ramp		0	7804	n/a	2461	n/a	47	n/a	797	n/a	0	0	
	S-N-E Ramp		0	16905	n/a	15627	n/a	296	n/a	762	n/a	224	0	
Spring Gdn Rd	W. of HC Road		2329	3118	2320	3114	0	0	2	0	0	0	0	
	E. of HC Road		3926	1866	3328	1722	0	0	268	144	0	0	0	
Lambton St/Grand Marais Rd	E. of HC Road		4266	3889	4221	3436	0	0	75	153	0	0	0	
	W. of HC Road		2354	2360	2283	2301	34	21	37	38	0	0	0	
Palford St	E. of HC Road		3301	1975	3020	1739	0	0	211	186	0	0	0	
	E. of HC Road		8027	6614	7381	6926	0	0	646	518	0	0	0	
Cabana Rd	between HC Road and Hwy 401 NB Ramps		19842	19082	19813	17449	39	127	0	1440	0	66	0	
	between Hwy 401 NB and SB Ramps		12043	16336	12020	14962	24	112	0	1413	0	48	0	
Huron Church Line	W. of Hwy 401 SB Ramps		11370	9895	11358	9888	0	0	12	10	0	0	0	
	W. of HC Road		7441	6041	7092	5657	97	80	234	294	28	0	0	
St. Clair College	E. of Talbot Road		3144	3929	2851	9148	0	0	160	451	0	0	0	
	E. of Talbot Road		5461	5933	5461	4248	0	0	0	985	0	0	0	
Cousineau Dr	W. of Talbot Road		7233	6365	7233	6365	0	0	0	0	0	0	0	
	E. of Talbot Rd		8134	10557	7723	10360	128	195	283	2	0	0	0	
Howard Ave	between Talbot Road and Hwy 401 SB On-Ramp		14444	7334	13265	7183	208	150	951	0	0	0	0	
	W. of Hwy 401 SB On-Ramp		12569	16922	12302	14210	247	290	11	192	0	0	0	
E.C. Row Expressway	E. of Huron Church Rd		34790	44692	21409	39193	678	807	2414	3355	390	1241	0	
	At Malden Rd		23297	28853	20925	24038	152	158	1295	3220	545	1052	0	
	W. of Machone		16951	8173	15597	7773	364	401	23	0	66	0	0	

TABLE A-11 CONTD.

HIGHWAY 401 Mainline										
	S. of Hwy 3 merge/split	19958	21565	11368	10615	328	247	3123	3047	
	N. of Howard Ave	17735	23313	10196	12593	329	261	3213	3711	
	At Grand Marais Rd	22373	29083	14531	16280	371	352	3805	4866	
	E. of Malden Rd	7274	13482	1781	3389	36	260	1583	3109	
	To/From Canadian Plaza	9984	18028	0	4	2	3	4208	8509	
		0	0							
		0	0							
		0	0							
HIGHWAY 401 Ramps										
	Hwy 3 merge/split	0	0							
	401 NB Off Ramp	11467	0	9795	0	203	0	972	0	
	401 NB On Ramp	9736	0	9534	0	193	0	9	0	
	401 SB Off Ramp	0	9992	0	9770	0	182	0	0	
	401 SB On Ramp	0	10350	0	7899	0	198	0	1822	
	Howard Ave	0	0							
	401 SB Off Ramp	0	3146	0	2588	0	34	0	575	
	At Todd Lane/Coburn Rd.	0	0							
	401 NB Off Ramp	18275	0	8800	0	25	0	0	0	
	401 NB On Ramp	11486	0	10190	0	115	0	1153	0	
	401 SB Off Ramp	0	13410	0	11959	0	130	0	1245	
	401 SB On Ramp	0	7896	0	7872	0	25	0	0	
	At Huron Church Rd	0	0							
	401 NB Off Ramp	11524	0	12787	0	321	0	2136	0	
	401 SB On Ramp	0	15712	0	12540	0	253	0	1894	
	At Malden Rd.	0	0							
	401 NB On Ramp	3175	0	2469	0	395	0	255	0	
	401 SB Off Ramp	0	4144	0	2712	0	564	0	868	
	EC Row Expressway to Hwy 401	0	0							
	401 SB Off Ramp	0	13781	0	9934	0	732	0	2770	
	Ojibway Pkwy IC	0	0							
	401 NB Off Ramp	4701	0	4249	0	451	0	0	0	
	401 NB On Ramp	1495	0	0	0	0	0	1221	0	
	401 SB Off Ramp	0	1092	0	122	0	15	0	955	
	401 SB On Ramp	0	14959	0	14528	0	431	0	0	
	EC Row Expressway IC	0	0							
	401 NB On Ramp	2178	0	0	0	0	0	1387	0	
		0	0							
		0	0							
		0	0							
FROM		TO								
	S. of Hwy 3 merge/split	Hwy 3/401 NB Off Ramp	Hwy 3/401 NB On Ramp	19958	0	11368		328		3123
	Hwy 3/401 NB Off Ramp	Hwy 3/401 NB On Ramp	Hwy 3/401 NB On Ramp	7731	0	2888		122		2068
	Hwy 3/401 NB On Ramp	Todd/401 NB Off Ramp	Todd/401 NB Off Ramp	17735	0	10196		329		3213
	Todd/401 NB Off Ramp	Todd/401 NB On Ramp	Todd/401 NB On Ramp	10830	0	5483		282		2322
	Todd/401 NB On Ramp	HC Rd/401 NB On Ramp	HC Rd/401 NB On Ramp	22373	0	14531		371		3805
	HC Rd/401 NB On Ramp	Malden/401 NB On Ramp	Malden/401 NB On Ramp	7274	0	1781		36		1583
	Malden/401 NB On Ramp	Ojibway/401 NB Off Ramp	Ojibway/401 NB Off Ramp	10449	0	4249		451		1838
	Ojibway Pkwy/401 NB Off Ramp	Ojibway Pkwy/401 NB On Ramp	Ojibway Pkwy/401 NB On Ramp	5748	0	0		0		1838
	Ojibway Pkwy/401 NB On Ramp	EC ROW to 401 NB On Ramp	EC ROW to 401 NB On Ramp	7243	0	0		0		3059
	EC ROW to 401 NB On Ramp	Canadian Plaza	Canadian Plaza	9981	0	0		0		4208
				0	0					
	Canadian Plaza	Ojibway/401 SB Off Ramp	Ojibway/401 SB Off Ramp	0	18028		4		3	8509
	Ojibway/401 SB Off Ramp	Ojibway/401 SB On Ramp	Ojibway/401 SB On Ramp	0	16743		4		2	7899
	Ojibway/401 SB On Ramp	401 to EC ROW SB Off Ramp	401 to EC ROW SB Off Ramp	0	31610		15975		574	6705
	401 to EC ROW SB Off Ramp	Malden/401 SB Off Ramp	Malden/401 SB Off Ramp	0	18476		4689		358	4135
	Malden/401 SB Off Ramp	HC Rd/401 SB On Ramp	HC Rd/401 SB On Ramp	0	13766		2827		84	3174
	HC Rd/401 SB On Ramp	Todd/401 SB Off Ramp	Todd/401 SB Off Ramp	0	29083		16280		352	4866
	Todd/401 SB Off Ramp	Todd/401 SB On Ramp	Todd/401 SB On Ramp	0	14880		6555		175	2996
	Todd/401 SB On Ramp	Howard/401 SB Off Ramp	Howard/401 SB Off Ramp	0	23313		12593		261	3711
	Howard/401 SB Off Ramp	Hwy 3/401 SB Off Ramp	Hwy 3/401 SB Off Ramp	0	20121		10107		226	3176
	Hwy 3/401 SB Off Ramp	Hwy 3/401 SB On Ramp	Hwy 3/401 SB On Ramp	0	9149		4265		91	1649
	Hwy 3/401 SB On Ramp	S. of Hwy 3 merge/split	S. of Hwy 3 merge/split	0	21565		10615		247	3047
				0	0					
				0	0					
FROM		TO								
	Chappis	401 S. Ramp	401 S. Ramp	8439	10340	7499	9159	324	441	616
	401 S. Ramp	401 N. Ramp	401 N. Ramp	9430	6776	8390	5988	361	291	679
	N. of 401 N. Ramp	EC Row S. Ramp	EC Row S. Ramp	6667	7473	5940	6608	254	320	472
	Chappis	EC Row N. Ramp	EC Row N. Ramp	7691	7482	7601	7389	0	0	90
	EC Row S. Ramp	EC Row N. Ramp	EC Row N. Ramp	2320	8626	2241	8541	0	0	86
	EC Row N. Ramp	Carmichael	Carmichael	4625	2938	4546	2871	0	0	79



TABLE A-12 CONTD.

HIGHWAY 401 Mainline												
S. of Hwy 3 merge/split		24670	27043	14218	17240	472	728	3520	3423	6511	10381	
N. of Howard Ave		21980	28889	12049	14451	400	407	3864	4416	5668	9719	
At Grand Marais Rd		26683	36031	16706	19084	437	407	4489	5716	5051	10824	
E. of Malden Rd		9431	18798	2001	4411	62	284	1896	3861	5472	10242	
To/From Canadian Plaza		12619	21661	1	6	2	2	5114	9382	7501	12070	
		0	0									
HIGHWAY 401 Ramps												
Hwy 3 merge/split		0	0									
401 NB Off Ramp		12564	0	10486	0	270	0	1173	0	686	0	
401 NB On Ramp		9748	0	9542	0	194	0	12	0	0	0	
401 SB Off Ramp		0	10144	0	9950	0	193	0	0	0	0	
401 SB On Ramp		0	11816	0	8453	0	207	0	2452	0	704	
Howard Ave		0	0									
401 SB Off Ramp		0	3457	0	2727	0	38	0	613	0	9	
At Todd Lane/Cubana Rd		0	0									
401 NB Off Ramp		7973	0	7883	0	90	0	0	0	0	0	
401 NB On Ramp		12703	0	11246	0	135	0	1372	0	0	0	
401 SB Off Ramp		0	14847	0	13130	0	146	0	1461	0	110	
401 SB On Ramp		0	8077	0	8041	0	36	0	0	0	0	
At Hixon Church Rd		0	0									
401 NB Off Ramp		17434	0	14695	0	381	0	2458	0	0	0	
401 NB On Ramp		0	17201	0	13895	0	782	0	2112	0	1422	
At Malden Rd		0	0									
401 NB On Ramp		3749	0	2728	0	119	0	447	0	85	0	
401 SB Off Ramp		0	4953	0	5650	0	426	0	872	0	0	
EC Row Expressway to Hwy 401		0	0									
401 SB Off Ramp		0	15483	0	10506	0	265	0	3518	0	1159	
Ojibway Pkwy IC		0	0									
401 NB Off Ramp		5740	0	4799	0	481	0	0	0	0	0	
401 NB On Ramp		1689	0	0	0	0	0	1246	0	343	0	
401 SB Off Ramp		0	1441	0	1395	0	37	0	0	0	0	
401 SB On Ramp		0	17201	0	3868	0	345	0	1278	0	0	
EC Row Expressway IC		0	0									
401 NB On Ramp		2537	0	0	0	0	0	1498	0	1039	0	
		0	0									
		0	0									
FROM		TO										
Highway 401 Mainline Vol	S. of Hwy 3 merge/split	Hwy 3/401 NB Off Ramp	24670	0	14218	0	472	0	3520	0	6511	0
	Hwy 3/401 NB Off Ramp	Hwy 3/401 NB On Ramp	12676	0	4528	0	202	0	2366	0	459	0
	Hwy 3/401 NB On Ramp	Todd/401 NB Off Ramp	21980	0	12049	0	400	0	3864	0	5668	0
	Todd/401 NB Off Ramp	Todd/401 NB On Ramp	13570	0	6532	0	287	0	2889	0	3861	0
	Todd/401 NB On Ramp	HC Rd/401 NB On Ramp	26683	0	16706	0	437	0	4489	0	5051	0
	HC Rd/401 NB On Ramp	Malden/401 NB On Ramp	9431	0	2001	0	62	0	1896	0	5472	0
	Malden/401 NB On Ramp	Ojibway/401 NB Off Ramp	13180	0	4799	0	481	0	2313	0	5557	0
	Ojibway Pkwy/401 NB Off Ramp	Ojibway Pkwy/401 NB On Ramp	7900	0	0	0	0	0	2313	0	5557	0
	Ojibway Pkwy/401 NB On Ramp	EC ROW to 401 NB On Ramp	9589	0	0	0	0	0	3689	0	9200	0
	EC ROW to 401 NB On Ramp	Canadian Plaza	12615	0	0	0	0	0	5114	0	7501	0
		Canadian Plaza	0	21661	0	6	2	0	9382	0	12070	0
		Ojibway/401 SB Off Ramp	0	20077	0	6	2	0	8721	0	11338	0
		Ojibway/401 SB On Ramp	0	39274	0	17983	635	0	8434	0	12223	0
	401 to EC ROW SB Off Ramp	0	24839	0	5846	376	0	5063	0	13553	0	
	Malden/401 SB Off Ramp	0	19308	0	3431	97	0	4025	0	11755	0	
	HC Rd/401 SB On Ramp	0	36031	0	19084	407	0	5716	0	10824	0	
	Todd/401 SB Off Ramp	0	20148	0	8925	216	0	3842	0	3961	0	
	Todd/401 SB On Ramp	0	28889	0	14451	303	0	4416	0	9719	0	
	Howard/401 SB Off Ramp	0	25374	0	11771	265	0	3798	0	9540	0	
	Hwy 3/401 SB Off Ramp	0	14014	0	6164	134	0	2297	0	5419	0	
	Hwy 3/401 SB On Ramp	0	27043	0	12940	728	0	3423	0	10381	0	
		0	0									
FROM		TO										
Malden	Chapuis	401 S. Ramp	8678	11091	7634	9922	325	435	729	728	0	0
	401 S. Ramp	401 N. Ramp	9788	4761	8614	4053	366	266	807	445	0	0
Matchette	N. of 401 N. Ramp	Chapuis	6584	7630	5805	6829	246	300	533	502	0	0
	Chapuis	EC Row S. Ramp	8264	9347	8169	9160	0	0	95	188	0	0
	EC Row S. Ramp	EC Row N. Ramp	2720	10334	2210	10162	0	0	80	172	0	0
	EC Row N. Ramp	Carmichael	4752	3019	4671	2900	0	0	81	119	0	0

**TABLE A- 13 24-HOUR ANNUAL AVERAGE DAILY TRAFFIC (AADT) FOR ALTERNATIVE 2B – YEAR 2035**

LOCATION	SECTION		24-Hour AADT							
			Total Cars and Trucks		Local Cars		Local Trucks		Internatic	
			NR /WB	SB /EB	NR /WB	SB /EB	NR /WB	SB /EB	NR /WB	
	FROM	TO								
	Riverside	University	7038	5893	6841	4716	191	96	3	
	University	Wyandotte	3312	4280	3085	3887	88	127	77	
	Wyandotte	AMB Off Ramp	2292	3415	9237	3286	0	0	55	
	AMB Off Ramp	College	19697	6722	8264	6614	233	108	7649	
	College St	Girardot St	25791	26069	18116	16775	568	526	6811	
	Girardot St	Tecumseh Rd	25158	27092	18031	18277	690	633	6165	
	Tecumseh Rd	Dorchester St	28406	34078	21405	22845	848	812	5878	
	Dorchester St	Prince Rd/Totten St	28518	32810	22173	25058	758	751	5347	
	Prince Rd/Totten St	Malden Rd	31078	36661	24722	29055	851	877	5231	
	Malden Rd	Industrial Rd	25673	31289	19807	23638	658	673	5197	
	Industrial Rd	EC Row N. Ramp Terminal	27661	33495	22107	26382	716	751	4838	
	EC Row N. Ramp Terminal	EC Row S. Ramp Terminal	21241	42144	16662	35843	481	792	4297	
	EC Row S. Ramp Terminal	Highway 401 Offramp	30763	33461	26863	27824	566	503	2834	
	Highway 401 Offramp	Spring Gdn Rd/Labelle St	12489	9489	11642	8637	96	148	750	
	Spring Gdn Rd/Labelle St	Lambton St/Grand Marais Rd Ramp	10516	9720	9868	8846	149	210	506	
	Lambton St/Grand Marais Rd Ramp	Pulford St	8947	8380	8470	8099	133	55	344	
	Pulford St	Todd Ln/Cabana Rd	9368	9494	9190	9374	178	69	0	
	Todd Ln/Cabana Rd	Huron Church Line	14484	17028	13388	16198	175	199	913	
	Huron Church Line	St Clair College	7245	8548	5966	7815	14	0	1266	
	St Clair College	Cousineau Dr	10857	6843	9054	6843	13	0	1791	
	Cousineau Dr	Howard Ave	10911	6141	10685	6137	68	4	157	
	Howard Ave	Highway 3 split	17869	16234	17511	15829	358	349	0	
	EC Row Expressway	GN Booth Dr	11697	12459	11381	11654	146	134	27	
	GN Booth Dr	Sandwich St	11633	12247	11316	11442	146	132	27	
	Sandwich St	N. of Prospect Ave	10780	10639	10653	10573	76	72	51	
	N. of Prospect Ave		10717	10429	10590	10315	75	71	51	
			0	0						
	CROSSING ROADS		0	0						
	Wyandotte	W of Huron Church	4937	4887	4556	4436	0	0	381	
		E of Huron Church	3677	5297	2767	4279	17	152	785	
	University	W of Huron Church	1504	1357	1504	1357	0	0	0	
		E of Huron Church	2457	2567	2193	2195	127	88	57	
	Riverside	W of Huron Church	3634	3914	3634	3914	0	0	0	
		E of Huron Church	7354	6036	7125	5981	0	0	129	
	AMB Off Ramp	E of Huron Church	80	12337	0	1096	0	44	0	
	AMB On Ramp	E of Huron Church	6927	0	214	0	5	0	6435	
	Patricia	AMB	4194	4966	375	1095	12	42	3544	
	College St	E. of HC Road	6798	6780	6613	5752	182	139	3	
		W. of HC Road	2239	990	1670	946	0	0	570	
	Girardot St	E. of HC Road	1153	1174	1071	1067	0	0	82	
		W. of HC Road	2292	2172	2156	2059	33	25	88	
	Tecumseh Rd	E. of HC Road	6350	7261	5994	6325	138	147	218	
		W. of HC Road	6629	7220	6561	7108	0	0	68	
	Dorchester St	E. of HC Road	1746	1586	1676	1478	0	0	119	
		W. of HC Road	1422	806	1332	763	22	9	55	
	Prince Rd/Totten St	E. of HC Road	2359	2668	2265	2560	0	0	93	
		W. of HC Road	5173	5546	5081	5466	0	0	97	
	Malden Rd	E. of HC Road	1859	1541	1536	1195	0	0	323	
		W. of HC Road	8088	7317	6860	6247	378	324	603	
	Industrial Rd	E. of HC Road	4318	4030	4094	3789	50	59	163	
		W. of HC Road	4481	3597	4301	3096	180	222	0	
	EC Row N. Ramp Terminal	E-N/S Ramp	16787	0	15484	n/a	339	n/a	964	
		N-W Ramp	0	988	n/a	923	n/a	8	n/a	
		S-W Ramp	1691	0	848	n/a	28	n/a	97	
	EC Row S. Ramp Terminal	W-N/S Ramp	0	2860	n/a	2475	n/a	72	n/a	
		S-N/E Ramp	0	21212	n/a	19144	n/a	408	n/a	
	Spring Gdn Rd	W. of HC Road	2468	3118	2365	3114	0	0	2	
	Labelle St	E. of HC Road	4091	2140	3780	1987	0	0	311	
		E. of HC Road	4299	4417	4234	4229	0	0	65	
	Lambton St/Grand Marais Rd	W. of HC Road	2627	2362	2536	2303	46	23	45	
		E. of HC Road	3004	1495	2777	1362	0	0	226	
	Pulford St	E. of HC Road	9775	8802	8553	8074	0	0	722	
	Cabana Rd	between HC Road and Hwy 401 NB Ramps	23942	23002	23872	20643	69	167	0	
		between Hwy 401 NB and SB Ramps	13743	19749	13704	17541	40	147	0	
	Todd Lane	W. of Hwy 401 SB Ramps	12791	10338	12728	10327	0	0	14	
	Huron Church Line	W. of HC Road	10341	9022	9820	8436	129	117	353	
	St Clair College	E. of Talbot Road	3214	9802	3145	9460	0	0	70	
		E. of Talbot Road	6502	5727	6502	4608	0	0	0	
	Cousineau Dr	W. of Talbot Road	8832	7650	8828	7603	4	47	0	



TABLE A-13 CONTD.

HIGHWAY 401 Mainline									
	S. of Hwy 3 merge/split	27671	31056	15594	14171	475	334	3761	
	N. of Howard Ave	24030	32604	12613	15317	425	326	4139	
	At Grand Marais Rd	29403	40387	17838	20309	467	439	4916	
	E. of Malden Rd	11213	22374	2145	4649	64	273	2124	
	To/From Canadian Plaza	14746	24191	1	6	3	3	5775	
		0	0						
		0	0						
		0	0						
	Hwy 3 merge/split								
	401 NB Off Ramp	14074	0	11374	0	239	0	1494	
	401 NB On Ramp	10103	0	9879	0	207	0	17	
	401 SB Off Ramp	0	10701	0	10497	0	204	0	
	401 SB On Ramp	0	13164	0	9417	0	230	0	
	Howard Ave								
	401 SB Off Ramp	0	0						
	401 SB Off Ramp	0	3755	0	2996	0	40	0	
	At Todd Lane/Cabana Rd								
	401 NB Off Ramp	0	0						
	401 NB On Ramp	7827	0	7772	0	105	0	0	
	401 NB On Ramp	13317	0	11743	0	145	0	1420	
	401 SB Off Ramp	0	16154	0	14285	0	158	0	
	401 SB On Ramp	0	8737	0	8698	0	39	0	
	At Hazen Church Rd								
	401 NB Off Ramp	18589	0	15534	0	405	0	2650	
	401 SB On Ramp	0	18987	0	14852	0	303	0	
	At Malden Rd								
	401 NB On Ramp	4144	0	3186	0	372	0	447	
	401 SB Off Ramp	0	5160	0	4024	0	470	0	
	EC Row Expressway to Hwy 401								
	401 SB Off Ramp	0	0						
	Ojibway Pkwy IC								
	401 NB Off Ramp	5767	0	5331	0	436	0	0	
	401 NB On Ramp	1807	0	0	0	0	0	1412	
	401 SB Off Ramp	0	1291	0	257	0	23	0	
	401 SB On Ramp	0	22906	0	22229	0	676	0	
	EC Row Expressway IC								
	401 NB On Ramp	3026	0	0	0	0	0	1760	
		0	0						
		0	0						
		0	0						
	FROM		TO						
	S. of Hwy 3 merge/split	Hwy 3/401 NB Off Ramp	27671	0	15594		475	3761	
	Hwy 3/401 NB Off Ramp	Hwy 3/401 NB On Ramp	13738	0	5060		225	2888	
	Hwy 3/401 NB On Ramp	Todd/401 NB Off Ramp	24030	0	12613		425	4139	
	Todd/401 NB Off Ramp	Todd/401 NB On Ramp	15706	0	7038		311	3270	
	Todd/401 NB On Ramp	HC Rd/401 NB On Ramp	29403	0	17838		467	4916	
	HC Rd/401 NB On Ramp	Malden/401 NB On Ramp	11213	0	2145		64	2124	
	Malden/401 NB On Ramp	Ojibway/401 NB Off Ramp	15357	0	5331		436	2571	
	Ojibway Pkwy/401 NB Off Ramp	Ojibway Pkwy/401 NB On Ramp	9590	0	0		0	2571	
	Ojibway Pkwy/401 NB On Ramp	EC ROW to 401 NB On Ramp	11397	0	0		0	3983	
	EC ROW to 401 NB On Ramp	Canadian Plaza	14742	0	0		0	5775	
			0	0					
	Canadian Plaza	Ojibway/401 SB Off Ramp	0	24191		6	3		
	Ojibway/401 SB Off Ramp	Ojibway/401 SB On Ramp	0	22624		5	3		
	Ojibway/401 SB On Ramp	401 to EC ROW SB Off Ramp	0	46563		19721	683		
	401 to EC ROW SB Off Ramp	Malden/401 SB Off Ramp	0	29133		6060	356		
	Malden/401 SB Off Ramp	HC Rd/401 SB On Ramp	0	23011		3417	95		
	HC Rd/401 SB On Ramp	Todd/401 SB Off Ramp	0	40739		20461	442		
	Todd/401 SB Off Ramp	Todd/401 SB On Ramp	0	23531		8634	239		
	Todd/401 SB On Ramp	Howard/401 SB Off Ramp	0	32962		15452	329		
	Howard/401 SB Off Ramp	Hwy 3/401 SB Off Ramp	0	29133		12614	288		
	Hwy 3/401 SB Off Ramp	Hwy 3/401 SB On Ramp	0	16990		7020	155		
	Hwy 3/401 SB On Ramp	S. of Hwy 3 merge/split	0	31056		14171	334		
			0	0					
			0	0					
	FROM	TO							
	Chappus	401 S. Ramp	9101	11717	7963	10557	341	417	797
	401 S. Ramp	401 N. Ramp	10331	6950	9063	6267	384	246	884
	N. of 401 N. Ramp		6810	7903	5986	7125	252	280	572
	Chappus	EC Row S. Ramp	9199	10065	9127	9882	0	0	72
	EC Row S. Ramp	EC Row N. Ramp	2646	10987	2600	10825	0	0	45
	EC Row N. Ramp	Carmichael	5048	3271	5002	3150	0	0	46

**TABLE A- 14 24-HOUR ANNUAL AVERAGE DAILY TRAFFIC (AADT) FOR ALTERNATIVE 3 – YEAR 2015**

LOCATION	SECTION		24 Hour AADT											
			Total Cars and Trucks	Local Cars		Local Trucks		International Cars		International Trucks				
				NB / WB	SB / EB	NB / WB	SB / EB	NB / WB	SB / EB	NB / WB	SB / EB			
HC Road	FROM	TO												
	Riverside	University	6918	5396	6736	5308	180	84	3	1	0	0	3	
	University	Wyandotte	3192	3920	3024	3558	91	118	58	241	20	3		
	Wyandotte	AMB Off Ramp	2259	3128	2222	2957	0	0	37	171	0	0		
	AMB Off Ramp	College	17523	6248	8545	6153	234	95	6352	1	2392	0		
	College St	Girardot St	24195	23449	17294	16101	520	467	6189	4444	192	2437		
	Girardot St	Tecumseh Rd	23064	23964	16858	17155	609	575	5424	3869	173	2366		
	Tecumseh Rd	Dorchester St	26282	27186	20136	20850	750	712	5219	3451	178	2173		
	Dorchester St	Prince Rd/Totten St	26623	28555	20995	22729	677	658	4796	3168	155	2001		
	Prince Rd/Totten St	Malden Rd	28955	32055	23361	26152	756	763	4660	3177	177	1962		
	Malden Rd	Industrial Rd	23645	26388	18327	20673	559	560	4752	3336	7	1819		
	Industrial Rd	EC Row N. Ramp Terminal	25478	28982	20368	23872	624	646	4486	3098	0	1866		
	EC Row N. Ramp Terminal	EC Row S. Ramp Terminal	19503	36395	15128	31177	429	668	3945	2935	0	1615		
	EC Row S. Ramp Terminal	Spring Gdn Rd/Labelle St	24639	28455	22018	24061	423	419	2198	2594	0	1381		
	Spring Gdn Rd/Labelle St	Lambton St/Grand Marais Rd	22690	11287	20998	10369	300	174	1392	745	0	0		
	Lambton St/Grand Marais Rd	Pulford St	10760	11989	9870	11188	149	154	740	677	0	0		
	Pulford St	Todd La/Cabana Rd	10912	12726	10093	12089	168	175	650	512	0	0		
	Todd La/Cabana Rd	Huron Church Line	10644	11744	10200	11443	103	95	311	235	0	0		
Talbot Rd	Huron Church Line	St Clair College	6839	13904	6786	13447	54	76	0	82	0	0		
	St Clair College	Cousineau Dr	14248	7669	12069	6110	125	80	2049	1326	0	153		
	Cousineau Dr	Howard Ave	6432	5582	5810	4825	95	93	528	488	0	176		
	S. of Howard Ave		13491	12505	13212	12253	279	252	0	0	0	0		
Ojibway Pwy	EC Row Expressway	GN Booth Dr	9914	10556	9780	9982	134	125	0	14	0	425		
	GN Booth Dr	Sandwich St	9850	10366	9717	9790	133	132	0	14	0	429		
	Sandwich St	Prospect Ave	9183	9687	9064	9557	72	78	46	46	0	0		
	N. of Prospect Ave		9120	9480	9002	9359	72	76	46	45	0	0		
CROSSING ROADS			0	0										
Wyandotte	W of Huron/Church		5176	4869	4819	4431	0	0	359	438	0	0		
	E of Huron/Church		3579	5179	2818	4098	21	142	722	939	18	0		
University	W of Huron/Church		1264	1185	1264	1185	0	0	0	0	0	0		
	E of Huron/Church		2129	2108	1938	1976	118	91	70	21	3	20		
Riverside	W of Huron/Church		3427	3539	3427	3539	0	0	0	0	0	0		
	E of Huron/Church		6762	5658	6590	5621	0	0	171	37	0	0		
AMB Off Ramp	E of Huron/Church		3	10176	0	1379	0	56	0	6349	2	2392		
AMB On Ramp	E of Huron/Church		6319	0	305	0	11	0	5828	0	174	0		
Patricia	AMB	Wyandotte	4109	5115	545	1376	22	35	3372	3417	171	267		
	College St	E. of HC Road	6585	6227	6421	5429	161	125	3	531	0	141		
Girardot St	W. of HC Road		1839	751	1594	709	0	0	245	43	0	0		
	E. of HC Road		1120	1156	989	996	0	0	131	160	0	0		
Tecumseh Rd	W. of HC Road		2346	2282	2257	2224	41	25	48	33	0	0		
	E. of HC Road		5692	6768	5357	6111	139	146	196	357	0	154		
Dorchester St	W. of HC Road		6453	6857	6265	6733	0	0	187	124	0	0		
	E. of HC Road		1297	844	1142	717	0	0	154	127	0	0		
Prince Rd/Totten St	W. of HC Road		1796	1457	1730	1419	32	18	34	20	0	0		
	E. of HC Road		2067	2624	1990	2507	0	0	77	117	0	0		
Malden Rd	W. of HC Road		4684	4687	4607	4619	0	0	76	68	0	0		
	E. of HC Road		1377	1093	1174	896	0	0	202	198	0	0		
Industrial Rd	W. of HC Road		7305	6667	6338	5887	362	323	455	28	150	429		
	E. of HC Road		3700	3485	3492	3232	52	59	149	177	7	17		
EC Row N. Ramp Terminal	W. of HC Road		3702	3167	3570	2785	132	193	0	0	0	190		
	E. of HC Road		14514	1487	15121	1365	274	0	1120	122	0	0		
EC Row S. Ramp Terminal	W. of HC Road		846	0	526	n/a	17	n/a	57	n/a	247	n/a		
	E. of HC Road		0	7757	n/a	7692	n/a	66	n/a	0	n/a	0		
Spring Gdn Rd/Labelle St	W. of HC Road		8597	2928	7615	2560	257	74	452	295	273	0		
	E. of HC Road		3643	2941	3548	2853	0	0	95	88	0	0		
Lambton St/Grand Marais Rd	W. of HC Road		3659	4143	3654	4139	0	0	5	4	0	0		
	E. of HC Road		4381	3824	4140	3605	0	0	241	219	0	0		
Pulford St	W. of HC Road		2028	4081	1953	3974	36	52	39	54	0	0		
	E. of HC Road		2192	1948	1922	1665	0	0	270	284	0	0		
Todd La/Cabana Rd	W. of HC Road		10171	8767	10075	8720	0	0	95	46	0	0		
	E. of HC Road		13136	10317	13128	10310	0	0	8	7	0	0		
Huron Church Line	W. of HC Road		8084	6446	7770	6118	96	81	218	247	0	0		
	E. of Talbot Road		3078	9510	2984	9189	0	0	94	321	0	0		
Cousineau Dr	E. of Talbot Road		7837	5831	6000	4676	0	0	1836	1155	0	0		
	W. of Talbot Road		10718	8338	10717	6675	0	39	0	1625	0	0		
Howard Ave	E. of Talbot Road		7649	9487	7519	9311	127	172	2	4	0	0		
	between Talbot Road and Hwy 401 SB On Ramp		10770	6885	10470	6729	189	154	111	2	0	0		
	W. of Hwy 401 SB On Ramp		9648	12566	9389	12226	205	284	54	56	0	0		
	E. of Huron Church Rd		35580	35332	32171	30978	681	652	2331	2711	398	991		
E.C. Row Expressway	At Malden Rd		23319	29881	21005	24885	443	544	1327	3432	544	1020		
	W. of Matchette		16032	8173	15668	7785	365	388	0	0	0	0		

TABLE A-14 CONTD.

HIGHWAY 401 Mainline				NB / WB	SB / EB	NB / WB	SB / EB	NB / WB	SB / EB	NB / WB	SB / EB	
S. of Hwy 3 merge/split			19936	21550	11487	10692	326	250	3070	3028	5053	7579
N. of Howard Ave			19359	22105	10563	10877	331	262	3614	3559	4852	7406
At Grand Marais Rd			16845	25086	9605	12163	303	322	3373	4468	3564	8132
At Malden Rd			7336	13542	1730	3444	57	260	1550	2918	3999	6920
To/From Canadian Plaza			10012	18010	0	3	2	4	4189	8563	5820	9439
HIGHWAY 401 Ramps			0	0								
Hwy 3 merge/split			0	0	NB / WB	SB / EB	NB / WB	SB / EB	NB / WB	SB / EB	NB / WB	SB / EB
401 NB Off Ramp			9808	0	8206	0	178	0	1013	0	411	0
401 NB On Ramp			9225	0	9050	0	176	0	0	0	0	0
401 SB Off Ramp			0	9835	0	9642	0	193	0	0	0	0
401 SB On Ramp			0	9516	0	7303	0	188	0	1632	0	394
At St. Clair College			0	0	NB / WB	SB / EB	NB / WB	SB / EB	NB / WB	SB / EB	NB / WB	SB / EB
401 NB Off Ramp			6260	0	6219	0	41	0	0	0	0	0
401 NB On Ramp			4021	0	3471	0	34	0	516	0	0	0
401 SB Off Ramp			0	6455	0	5081	0	60	0	1180	0	134
401 SB On Ramp			0	3835	0	3815	0	20	0	0	0	0
At Huron Church Rd.			0	0	NB / WB	SB / EB	NB / WB	SB / EB	NB / WB	SB / EB	NB / WB	SB / EB
401 NB Off Ramp			9757	0	7755	0	253	0	1749	0	0	0
401 SB On Ramp			0	11483	0	8323	0	222	0	1696	0	1242
Malden Rd IC			0	0	NB / WB	SB / EB	NB / WB	SB / EB	NB / WB	SB / EB	NB / WB	SB / EB
401 On Ramp			3162	0	2421	0	400	0	291	0	50	0
401 Off Ramp			0	4138	0	2737	0	558	0	844	0	0
EC Row Expressway IC			0	0	NB / WB	SB / EB	NB / WB	SB / EB	NB / WB	SB / EB	NB / WB	SB / EB
401 SB Off Ramp			0	13755	0	9678	0	235	0	3005	0	838
Ojibway Pkwy IC			0	0	NB / WB	SB / EB	NB / WB	SB / EB	NB / WB	SB / EB	NB / WB	SB / EB
401 NB Off Ramp			4607	0	4151	0	457	0	0	0	0	0
401 NB On Ramp			1491	0	0	0	0	0	1209	0	281	0
401 SB Off Ramp			0	1112	0	114	0	13	0	926	0	59
401 SB On Ramp			0	14959	0	14532	0	427	0	0	0	0
EC Row Expressway IC			0	0								
401 NB On Ramp			2181	0	0	0	0	0	1400	0	781	0
			0	0								
			0	0								
			0	0								
Highway 401 Mainline Vol	FROM	TO										
	S. of Hwy 3 merge/split	Hwy 3/ 401 NB Off Ramp	19936	0	11487		326		3070		5053	
	Hwy 3/ 401 NB Off Ramp	Hwy 3/401 NB On Ramp	10106	0	3317		136		2545		4108	
	Hwy 3/401 NB On Ramp	St. Clair/401 NB Off Ramp	19359	0	10563		331		3614		4852	
	St. Clair/401 NB Off Ramp	St. Clair/401 NB On Ramp	12756	0	6382		260		2772		3342	
	St. Clair/401 NB On Ramp	HC Rd/401 NB Off Ramp	16845	0	9605		303		3373		3564	
	HC Rd/401 NB Off Ramp	Malden/401 NB On Ramp	7336	0	1730		57		1550		3999	
	Malden/401 NB On Ramp	Ojibway/401 NB Off Ramp	10498	0	4151		457		1841		4049	
	Ojibway/401 NB Off Ramp	Ojibway Pkwy/401 NB On Ramp	5890	0	0		0		1841		4049	
	Ojibway Pkwy/401 NB On Ramp	EC ROW to 401 NB On Ramp	7381	0	0		0		3051		4330	
	EC ROW to 401 NB On Ramp	Canadian Plaza	10009	0	0		0		4189		5820	
	Canadian Plaza	Ojibway/401 SB Off Ramp	0	18010								9439
	Ojibway/401 SB Off Ramp	Ojibway/401 SB On Ramp	0	16724			3		4		7912	8806
	Ojibway/401 SB On Ramp	401 to EC ROW SB Off Ramp	0	31565			15936		574		6769	8286
	401 to EC ROW SB Off Ramp	Malden/401 SB Off Ramp	0	18546			4775		358		3881	9532
	Malden/401 SB Off Ramp	HC Rd/401 SB On Ramp	0	13841			2888		86		2960	7907
	HC Rd/401 SB On Ramp	St. Clair/401 SB Off Ramp	0	25086			12163		322		4468	8132
	St. Clair/401 SB Off Ramp	St. Clair/401 SB On Ramp	0	18267			7825		245		3245	6951
	St. Clair/401 SB On Ramp	Hwy 3/401 SB Off Ramp	0	22105			10877		262		3559	7406
	Hwy 3/401 SB Off Ramp	Hwy 3/401 SB On Ramp	0	11251			5302		125		1963	3861
Hwy 3/401 SB On Ramp	S. of Hwy 3 merge/split	0	21550			10692		250		3028	7579	
			0	0								
Malden	FROM	TO										
	Chappus	401 S. Ramp	8168	9933	7234	8882	324	407	611	643	0	0
	401 S. Ramp	401 N. Ramp	9159	6366	8122	5685	362	262	675	419	0	0
Matchette	N. of 401 N. Ramp		6398	7063	5682	6310	252	290	464	463	0	0
	Chappus	EC Row S. Ramp	7545	6236	7421	6049	0	0	124	187	0	0
	EC Row S. Ramp	EC Row N. Ramp	2539	8038	2404	7847	0	0	135	191	0	0
Montgomery	EC Row N. Ramp	Carmichael	5887	3394	5737	3232	0	0	150	163	0	0
	Surrey	Talbot	91	179	88	171	1	2	2	3	0	2
	Surrey	Montgomery	73	222	70	210	1	3	2	8	0	1
Grosvenor	Montgomery	Talbot	127	224	122	212	2	3	4	7	0	1

TABLE A- 15 24-HOUR ANNUAL AVERAGE DAILY TRAFFIC (AADT) FOR  
ALTERNATIVE 3 – YEAR 2025

LOCATION	SECTION		24 Hour AADT											
			Total Cars and Trucks	Local Cars		Local Trucks		International Cars		International Trucks				
				NB / WB	SB / EB	NB / WB	SB / EB	NB / WB	SB / EB	NB / WB	SB / EB			
HC Road	Riverside	University	6961	5530	6774	5399	184	90	5	1	0	0	41	
	University	Wyandotte	3214	4019	3000	3621	90	122	69	236	56	41		
	Wyandotte	AMB Off Ramp	2224	3176	2176	3010	0	0	48	166	0	0		
	AMB Off Ramp	College	18564	6353	8426	6251	234	101	7087	1	2816	0		
	College St	Girardot St	24955	24843	17631	16549	546	493	6532	4968	246	2833		
	Girardot St	Tecumseh Rd	24408	25958	17627	18139	664	624	5889	4413	237	2782		
	Tecumseh Rd	Dorchester St	27651	29331	20974	22098	814	779	5635	3919	229	2535		
	Dorchester St	Prince Rd/Totten St	28081	30873	21963	24148	736	717	5181	3654	201	2354		
	Prince Rd/Totten St	Malden Rd	30049	33749	24053	27222	810	813	4961	3616	225	2098		
	Malden Rd	Industrial Rd	24646	27981	19004	21544	618	608	5015	3810	9	2019		
	Industrial Rd	EC Row N. Ramp Terminal	26596	30087	21211	23946	680	665	4704	3444	0	1981		
	EC Row N. Ramp Terminal	EC Row S. Ramp Terminal	20149	38952	13562	33206	464	721	4124	3269	0	1756		
	EC Row S. Ramp Terminal	Spring Gdn Rd/Labelle St	28259	30210	25166	25543	508	455	2586	2788	0	1424		
	Spring Gdn Rd/Labelle St	Lambton St/Grand Marais Rd	26134	13261	24153	12903	360	196	1622	862	0	0		
	Lambton St/Grand Marais Rd	Pulford St	12557	14320	11525	13341	184	167	848	812	0	0		
Pulford St	Todd Ln/Cabana Rd	12763	15084	11798	14229	205	185	766	668	0	0			
Todd Ln/Cabana Rd	Huron Church Line	12281	14453	11786	14038	123	104	372	311	0	0			
Talbot Rd	Huron Church Line	6530	14107	6453	13839	76	89	1	179	0	0			
	St Clair College	14778	7704	12477	6120	128	78	2173	1318	0	189			
	Cousineau Dr	7085	5242	6399	4536	101	80	585	430	0	196			
	S. of Howard Ave	14875	13903	14581	13628	294	275	0	0	0	0			
Ojibway Pwy	EC Row Expressway	10857	11127	10717	10440	140	133	0	21	0	533			
	GN Booth Dr	10758	10889	10619	10207	139	130	0	20	0	531			
	Sandwich St	10039	10079	9918	9959	73	74	47	46	0	0			
	N. of Prospect Ave	9978	9897	9856	9779	72	73	47	45	0	0			
CROSSING ROADS			0	0	NB / WB	SB / EB	NB / WB	SB / EB	NB / WB	SB / EB	NB / WB	SB / EB		
Wyandotte	W of Huron Church	5113	4883	4743	4443	0	0	370	439	0	0			
	E of Huron Church	3606	5258	2781	4182	18	143	754	932	51	0			
University	W of Huron Church	1375	1229	1375	1229	0	0	0	0	0	0			
	E of Huron Church	2295	2207	2063	2040	122	90	70	21	41	56			
Riverside	W of Huron Church	3595	3728	3594	3728	0	0	0	0	0	0			
	E of Huron Church	6979	5800	6812	5752	0	0	167	48	0	0			
AMB Off Ramp	E of Huron Church	41	11242	0	1287	0	54	0	7084	41	2816			
AMB On Ramp	E of Huron Church	6616	0	242	0	6	0	6145	0	223	0			
Patricia	AMB	4135	5001	427	1285	12	52	3480	3359	216	305			
	E. of HC Road	6690	6390	6521	5512	166	129	4	554	0	195			
College St	W. of HC Road	2051	935	1627	887	0	0	424	47	0	0			
	E. of HC Road	1150	1153	1011	987	0	0	139	166	0	0			
Girardot St	W. of HC Road	2288	2217	2199	2159	42	26	47	32	0	0			
	E. of HC Road	5683	6763	5350	6031	137	145	197	384	0	204			
Tecumseh Rd	W. of HC Road	6537	6961	6315	6830	0	0	222	130	0	0			
	E. of HC Road	1296	843	1138	711	0	0	159	132	0	0			
Dorchester St	W. of HC Road	1830	1473	1761	1434	34	19	36	20	0	0			
	E. of HC Road	2206	2597	2124	2482	0	0	82	115	0	0			
Prince Rd/Totten St	W. of HC Road	4726	4924	4646	4854	0	0	80	70	0	0			
	E. of HC Road	1632	1318	1356	1050	0	0	275	268	0	0			
Malden Rd	W. of HC Road	7621	6939	6562	6018	370	319	497	39	192	563			
	E. of HC Road	4029	3803	3818	3553	49	60	153	168	8	22			
Industrial Rd	W. of HC Road	4158	3449	3994	3037	163	204	0	0	0	208			
	E. of HC Road (E-N/S Off Ramp & S-W On Ramp)	16498	1503	15016	1374	317	1	1165	128	0	0			
EC Row N. Ramp Terminal	W. of HC Road (N-W On Ramp)	948	0	577	n/a	17	n/a	60	n/a	294	n/a			
EC Row S. Ramp Terminal	E. of HC Road (S-E On Ramp)	0	10999	n/a	10896	n/a	103	n/a	0	n/a	0			
	W. of HC Road (N-E On Ramp & W-N/S Off Ramp)	9010	3132	7836	2684	273	77	558	371	343	0			
Spring Gdn Rd/Labelle St	E. of HC Road	3734	3026	3622	2934	0	0	112	92	0	0			
	W. of HC Road	3994	4329	3989	4325	0	0	5	5	0	0			
Lambton St/Grand Marais Rd	E. of HC Road	4948	3919	4709	3704	0	0	239	215	0	0			
	W. of HC Road	2077	3924	1999	3820	38	52	40	52	0	0			
Pulford St	E. of HC Road	2210	1992	1931	1693	0	0	279	299	0	0			
Todd Ln/Cabana Rd	E. of HC Road	10073	8513	9987	8450	0	0	86	63	0	0			
	W. of HC Road	12847	10327	12838	10322	0	0	8	6	0	0			
Huron Church Line	W. of HC Road	9768	8150	9382	7721	116	105	271	324	0	0			
St Clair College	E. of Talbot Road	3201	9406	3107	9102	0	0	94	304	0	0			
	W. of Talbot Road	8160	5416	6182	4244	0	0	1977	1172	0	0			
Cousineau Dr	E. of Talbot Road	11856	8767	11856	6974	0	113	0	1681	0	0			
	W. of Talbot Road	8186	10256	8048	10052	135	198	3	5	0	0			
Howard Ave	between Talbot Road and Hwy 401 SB On Ramp	11524	7289	11210	7126	198	161	116	2	0	0			
	W. of Hwy 401 SB On Ramp	10488	14834	10221	14457	214	328	53	49	0	0			
E.C. Row Expressway	E. of Huron Church Rd	43452	42975	38998	37195	822	790	3058	3567	575	1422			
	At Malden Rd	29307	34264	25945	28015	543	613	2046	4258	774	1379			
	W. of Matchette	20751	9029	20276	8617	475	412	0	0	0	0			

TABLE A-15 CONT'D.

HIGHWAY 401 Mainline				NB / WB	SB / EB	NB / WB	SB / EB	NB / WB	SB / EB	NB / WB	SB / EB		
S. of Hwy 3 merge/split			24636	26971	14411	13155	412	301	3441	3388	6373	10127	
N. of Howard Ave			22414	26452	11756	11978	386	291	4032	4059	6240	10124	
At Grand Marais Rd			20488	28687	10989	12714	355	341	4051	4902	5092	10731	
At Malden Rd			9512	18078	1940	4241	63	275	1854	3308	3655	10254	
To/From Canadian Plaza			12654	21552	1	5	3	4	5096	9206	7555	12338	
			0	0									
HIGHWAY 401 Ramps			0	0									
Hwy 3 merge/split			0	0	NB / WB	SB / EB	NB / WB	SB / EB	NB / WB	SB / EB	NB / WB	SB / EB	
401 NB Off Ramp			11216	0	9160	0	201	0	1258	0	596	0	
401 NB On Ramp			9408	0	9231	0	177	0	0	0	0	0	
401 SB Off Ramp			0	9929	0	9747	0	182	0	0	0	0	
401 SB On Ramp			0	10588	0	7792	0	196	0	2039	0	561	
At St. Clair College			0	0	NB / WB	SB / EB	NB / WB	SB / EB	NB / WB	SB / EB	NB / WB	SB / EB	
401 NB Off Ramp			6414	0	6356	0	58	0	0	0	0	0	
401 NB On Ramp			4728	0	4004	0	37	0	687	0	0	0	
401 SB Off Ramp			0	6331	0	3960	0	58	0	1145	0	168	
401 SB On Ramp			0	4424	0	4398	0	25	0	0	0	0	
At Huron Church Rd			0	0	NB / WB	SB / EB	NB / WB	SB / EB	NB / WB	SB / EB	NB / WB	SB / EB	
401 NB Off Ramp			11320	0	8942	0	303	0	2075	0	0	0	
401 NB On Ramp			0	10853	0	7837	0	204	0	1688	0	1124	
Malden Rd IC			0	0	NB / WB	SB / EB	NB / WB	SB / EB	NB / WB	SB / EB	NB / WB	SB / EB	
401 On Ramp			3762	0	2773	0	424	0	454	0	161	0	
401 Off Ramp			0	4954	0	3551	0	517	0	887	0	0	
EC Row Expressway IC			0	0	NB / WB	SB / EB	NB / WB	SB / EB	NB / WB	SB / EB	NB / WB	SB / EB	
401 SB Off Ramp			0	16124	0	10804	0	265	0	3886	0	1169	
Ojibway Pkwy IC			0	0	NB / WB	SB / EB	NB / WB	SB / EB	NB / WB	SB / EB	NB / WB	SB / EB	
401 NB Off Ramp			5150	0	4663	0	487	0	0	0	0	0	
401 NB On Ramp			1685	0	0	0	0	1330	0	355	0	0	
401 SB Off Ramp			0	1160	0	142	0	13	0	930	0	75	
401 SB On Ramp			0	18909	0	18366	0	543	0	0	0	0	
EC Row Expressway IC			0	0									
401 NB On Ramp			2523	0	0	0	0	0	1569	0	954	0	
			0	0									
			0	0									
			0	0									
FROM					TO								
S. of Hwy 3 merge/split			Hwy 3/ 401 NB Off Ramp	24636	0	14411	412	301	3441	3388	6373	10127	
Hwy 3/ 401 NB Off Ramp			Hwy 3/401 NB On Ramp	12984	0	4501	190	2873	0	5419	0	0	
Hwy 3/401 NB On Ramp			St. Clair/401 NB Off Ramp	22414	0	11756	386	4032	4059	6240	0	0	
St. Clair/401 NB Off Ramp			St. Clair/401 NB On Ramp	15629	0	7332	307	3281	4709	0	0	0	
St. Clair/401 NB On Ramp			HC Rd/401 NB Off Ramp	20488	0	10989	355	4051	5092	0	0	0	
HC Rd/401 NB Off Ramp			Malden/401 NB On Ramp	9512	0	1940	63	1854	3655	0	0	0	
Malden/401 NB On Ramp			Ojibway/401 NB Off Ramp	13275	0	4663	487	2308	5817	0	0	0	
Ojibway Pkwy/401 NB Off Ramp			Ojibway Pkwy/401 NB On Ramp	8125	0	0	0	2308	5817	0	0	0	
Ojibway Pkwy/401 NB On Ramp			EC ROW to 401 NB On Ramp	9809	0	0	0	3638	6171	0	0	0	
EC ROW to 401 NB On Ramp			Canadian Plaza	12650	0	0	0	5096	7555	0	0	0	
Canadian Plaza			Ojibway/401 SB Off Ramp	0	21552	5	3	9206	12338	0	0	0	
Ojibway/401 SB Off Ramp			Ojibway/401 SB On Ramp	0	20161	4	3	8557	11597	0	0	0	
Ojibway/401 SB On Ramp			401 to EC ROW SB Off Ramp	0	39386	18022	637	8202	12526	0	0	0	
401 to EC ROW SB Off Ramp			Malden/401 SB Off Ramp	0	24169	5683	368	4395	13722	0	0	0	
Malden/401 SB Off Ramp			HC Rd/401 SB On Ramp	0	18562	3344	95	3394	11730	0	0	0	
HC Rd/401 SB On Ramp			St. Clair/401 SB Off Ramp	0	28687	12714	341	4902	10731	0	0	0	
St. Clair/401 SB Off Ramp			St. Clair/401 SB On Ramp	0	21968	8444	266	3737	9521	0	0	0	
St. Clair/401 SB On Ramp			Hwy 3/401 SB Off Ramp	0	26452	11978	291	4059	10124	0	0	0	
Hwy 3/401 SB Off Ramp			Hwy 3/401 SB On Ramp	0	15293	6636	156	2531	5970	0	0	0	
Hwy 3/401 SB On Ramp			S. of Hwy 3 merge/split	0	26971	13155	301	3388	10127	0	0	0	
			FROM		TO								
Malden			Chappus	8621	10764	7519	9673	340	416	762	676	0	0
			401 S. Ramp	9729	6427	8505	5779	382	247	841	401	0	0
			401 N. Ramp	6523	7294	5713	6556	255	281	554	456	0	0
			N of 401 N. Ramp	8915	7997	8771	7728	0	0	144	269	0	0
			Chappus	2706	9624	2577	9359	0	0	129	265	0	0
			EC Row S. Ramp	6299	3565	6140	3359	0	0	159	207	0	0
			EC Row N. Ramp	100	197	97	188	1	2	2	4	0	3
			Surrey	73	230	70	217	1	3	2	8	0	1
			Montgomery	127	223	122	211	2	3	4	8	0	1
			Montgomery										
			Talbot										
			Montgomery										
			Talbot										
			Montgomery										
			Talbot										

**TABLE A- 16 24-HOUR ANNUAL AVERAGE DAILY TRAFFIC (AADT) FOR ALTERNATIVE 3 – YEAR 2035**

LOCATION	SECTION	24 Hour AADT											
		Total Cars and Trucks				Local Cars		Local Trucks		International Cars		International Trucks	
		NB / WB	SB / EB	NB / WB	SB / EB	NB / WB	SB / EB	NB / WB	SB / EB	NB / WB	SB / EB	NB / WB	SB / EB
HC Road	FROM												
	Riverside	6880	5780	6678	5604	199	95	3	1	0	81	0	81
	University	3053	4205	2832	3759	92	125	67	241	63	81	0	81
	Wyandotte	2107	3328	2061	3152	0	0	46	176	0	0	0	0
	AMB Off Ramp	19717	6581	7911	6474	237	106	7717	1	3852	0	0	0
	College St	25463	26103	17762	16404	558	517	6849	5320	293	3861	0	0
	Girardot St	25119	27680	17897	18482	693	654	6255	4781	275	3762	0	0
	Tecumseh Rd	28380	30495	21270	22372	851	812	5982	3977	278	3334	0	0
	Dorchester St	28794	31651	22277	24172	773	737	5498	3676	247	3066	0	0
	Prince Rd/Totten St	31206	34207	24702	27332	862	837	5862	3272	280	2766	0	0
	Malden Rd	25464	28851	19459	22099	660	642	5334	3363	11	2746	0	0
	Industrial Rd	27054	31283	21452	24453	704	695	4898	3479	0	2656	0	0
	EC Row N. Ramp Terminal	20884	41304	15992	34770	489	774	4403	3352	0	2408	0	0
	EC Row S. Ramp Terminal	29662	32024	26279	26779	547	491	2836	2906	0	1848	0	0
	Spring Gdn Rd/Labelle St	27720	13928	25464	12835	394	204	1862	889	0	0	0	0
	Lambton St/Grand Marais Rd	13439	15346	12242	14344	203	177	994	825	0	0	0	0
	Pulford St	13680	16161	12527	15281	224	193	930	687	0	0	0	0
	Todd Ln/Cabana Rd	12890	15643	12297	15199	135	111	458	333	0	0	0	0
	Talbot Rd	Huron Church Line	7121	14895	7028	14513	89	110	3	272	0	0	0
St Clair College		15512	8120	13092	6326	126	78	2294	1478	0	239	0	0
Cousineau Dr		7625	5360	6884	4573	100	75	640	479	0	233	0	0
S. of Howard Ave		15866	14939	15541	14634	324	305	0	0	0	0	0	0
EC Row Expressway		11827	11522	11678	10724	149	131	0	19	0	648	0	0
Ojibway Pwy	GN Booth Dr	11744	11274	11595	10483	148	128	0	19	0	645	0	0
	Sandwich St	10920	10280	10793	10162	76	70	51	48	0	0	0	0
	N. of Prospect Ave	10857	10051	10731	9936	75	68	51	47	0	0	0	0
		0	0										
<b>CROSSING ROADS</b>		<b>0</b>	<b>0</b>	<b>NB / WB</b>	<b>SB / EB</b>	<b>NB / WB</b>	<b>SB / EB</b>	<b>NB / WB</b>	<b>SB / EB</b>	<b>NB / WB</b>	<b>SB / EB</b>	<b>NB / WB</b>	<b>SB / EB</b>
Wyandotte	W of HuronChurch	4977	4900	4596	4453	0	0	381	447	0	0	0	0
	E of HuronChurch	3621	5433	2776	4331	17	153	770	948	58	0	0	0
University	W of HuronChurch	1513	1313	1513	1313	0	0	0	0	0	0	0	0
	E of HuronChurch	2476	2249	2206	2073	125	92	65	21	81	63	0	0
Riverside	W of HuronChurch	3708	4018	3708	4018	0	0	0	0	0	0	0	0
AMB Off Ramp	E of HuronChurch	7256	5956	7079	5910	0	0	177	46	0	0	0	0
AMB On Ramp	E of HuronChurch	81	12540	0	932	0	43	0	7713	81	3852	0	0
Patricia	AMB	7019	0	221	0	6	0	6520	0	273	0	0	0
	E. of HC Road	4206	4833	387	930	12	41	3574	3467	233	394	0	0
College St	E. of HC Road	6834	6532	6657	5523	173	130	4	590	0	289	0	0
	W. of HC Road	2260	1021	1737	984	0	0	522	38	0	0	0	0
Girardot St	E. of HC Road	1159	1160	1017	992	0	0	142	168	0	0	0	0
	W. of HC Road	2290	2184	2202	2125	42	27	47	33	0	0	0	0
Tecumseh Rd	E. of HC Road	6150	7222	5805	6274	141	146	204	457	0	345	0	0
	W. of HC Road	6800	7321	6419	7211	0	0	381	110	0	0	0	0
Dorchester St	E. of HC Road	1296	842	1136	708	0	0	160	134	0	0	0	0
	W. of HC Road	1849	1490	1779	1449	34	20	36	21	0	0	0	0
Prince Rd/Totten St	E. of HC Road	2304	2597	2220	2485	0	0	83	112	0	0	0	0
	W. of HC Road	4856	4953	4780	4880	0	0	76	73	0	0	0	0
Malden Rd	E. of HC Road	1868	1462	1550	964	0	0	318	498	0	0	0	0
	W. of HC Road	8033	7260	6891	6225	380	323	529	14	232	699	0	0
Industrial Rd	E. of HC Road	4394	3993	3646	3711	45	59	695	195	8	29	0	0
	W. of HC Road	4432	3594	4258	3117	174	210	0	0	0	267	0	0
EC Row N. Ramp Terminal	HC Road E./N/S Off Ramp & S-W On Ramp	17403	1647	15875	1474	340	3	1188	171	0	0	0	0
	W. of HC Road (N-W On Ramp)	1072	0	587	n/a	15	n/a	66	n/a	403	n/a	0	0
EC Row S. Ramp Terminal	E. of HC Road (S-E On Ramp)	0	11842	n/a	11723	n/a	118	n/a	0	n/a	0	0	0
	HC Road N/E On Ramp & W-N/S Off	9507	3316	8199	2878	294	76	479	362	535	0	0	0
Spring Gdn Rd/Labelle St	E. of HC Road	3434	3160	3170	3133	0	0	265	27	0	0	0	0
	W. of HC Road	4255	4248	4250	4243	0	0	5	4	0	0	0	0
	E. of HC Road	5418	4073	5172	3873	0	0	246	200	0	0	0	0
Lambton St/Grand Marais Rd	E. of HC Road	2126	3871	2047	3766	39	53	40	53	0	0	0	0
	W. of HC Road	2227	2037	1943	1730	0	0	284	308	0	0	0	0
Todd Ln/Cabana Rd	E. of HC Road	10941	9229	10844	9168	0	0	97	60	0	0	0	0
	W. of HC Road	13261	10845	13248	10838	0	0	13	7	0	0	0	0
Huron Church Line	W. of HC Road	11081	9590	10658	9046	131	124	293	420	0	0	0	0
St Clair College	E. of Talbot Road	3255	9306	3164	9013	0	0	91	293	0	0	0	0
	W. of Talbot Road	8875	5604	6652	4360	0	0	2223	1244	0	0	0	0
Cousineau Dr	W. of Talbot Road	13082	9483	13081	7324	0	120	0	2039	0	0	0	0
	E. of Talbot Road	8905	11116	8753	10898	149	213	3	6	0	0	0	0
Howard Ave	from Talbot Road and Hwy 401 SB On Ramp	12423	7884	12085	7704	216	178	121	2	0	0	0	0
	W. of Hwy 401 SB On Ramp	11262	16265	10974	15844	234	363	54	57	0	0	0	0
E.C. Row Expressway	E. of Huron Church Rd	50269	48093	44794	41237	944	890	3783	4209	748	1758	0	0
	At Malden Rd	35432	38618	30926	31214	645	689	2820	5162	1041	1553	0	0
	W. of Matchette	25742	9811	25148	9398	594	413	0	0	0	0	0	0

TABLE A-16 CONT'D.

HIGHWAY 401 Mainline				NB / WB	SB / EB	NB / WB	SB / EB	NB / WB	SB / EB	NB / WB	SB / EB
S. of Hwy 3 merge/split		27604	30963	15817	14374	474	339	3691	3738	7623	12511
N. of Howard Ave		25909	30276	12948	12870	441	318	4599	4468	7921	12619
At Grand Marais Rd		23866	32298	12338	13225	410	363	4649	5383	6470	13326
At Malden Rd		11315	21421	2042	4467	69	281	2083	3857	7122	12816
To/From Canadian Plaza		14788	24160	1	5	3	4	5750	9967	9035	14184
		0	0								
HIGHWAY 401 Ramps		0	0								
Hwy 3 merge/split		0	0	NB / WB	SB / EB	NB / WB	SB / EB	NB / WB	SB / EB	NB / WB	SB / EB
401 NB Off Ramp		12186	0	9709	0	215	0	1456	0	806	0
401 NB On Ramp		9811	0	9620	0	191	0	0	0	0	0
401 SB Off Ramp		0	10598	0	10394	0	203	0	0	0	0
401 SB On Ramp		0	11840	0	8417	0	212	0	2482	0	729
At St. Clair College		0	0	NB / WB	SB / EB	NB / WB	SB / EB	NB / WB	SB / EB	NB / WB	SB / EB
401 NB Off Ramp		6745	0	6674	0	70	0	0	0	0	0
401 NB On Ramp		5077	0	4353	0	40	0	684	0	0	0
401 SB Off Ramp		0	6552	0	5025	0	58	0	1256	0	214
401 SB On Ramp		0	4893	0	4861	0	32	0	0	0	0
At Huron Church Rd		0	0	NB / WB	SB / EB	NB / WB	SB / EB	NB / WB	SB / EB	NB / WB	SB / EB
401 NB Off Ramp		12988	0	10257	0	357	0	2374	0	0	0
401 SB On Ramp		0	11289	0	7916	0	209	0	1724	0	1440
Malden Rd IC		0	0	NB / WB	SB / EB	NB / WB	SB / EB	NB / WB	SB / EB	NB / WB	SB / EB
401 On Ramp		4124	0	2893	0	451	0	567	0	213	0
401 Off Ramp		0	5467	0	4002	0	511	0	954	0	0
EC Row Expressway IC		0	0	NB / WB	SB / EB	NB / WB	SB / EB	NB / WB	SB / EB	NB / WB	SB / EB
401 SB Off Ramp		0	19059	0	12479	0	320	0	4893	0	1367
Ojibway Pkwy IC		0	0	NB / WB	SB / EB	NB / WB	SB / EB	NB / WB	SB / EB	NB / WB	SB / EB
401 NB Off Ramp		5454	0	4935	0	519	0	0	0	0	0
401 NB On Ramp		1802	0	0	0	0	0	1396	0	406	0
401 SB Off Ramp		0	1324	0	275	0	25	0	942	0	81
401 SB On Ramp		0	22906	0	22226	0	680	0	0	0	0
EC Row Expressway IC		0	0								
401 NB On Ramp		3019	0	0	0	0	0	1833	0	1186	0
		0	0								
		0	0								
FROM											
S. of Hwy 3 merge/split		27604	0	15817		474		3691		7623	
Hwy 3/401 NB Off Ramp		16139	0	5381		237		3349		7173	
Hwy 3/401 NB On Ramp		25909	0	12948		441		4599		7921	
St. Clair/401 NB Off Ramp		18741	0	8261		356		3865		6258	
St. Clair/401 NB On Ramp		23866	0	12338		410		4649		6470	
HC Rd/401 NB Off Ramp		11315	0	2042		69		2083		7122	
Malden/401 NB On Ramp		15439	0	4935		519		2650		7335	
Ojibway Pkwy/401 NB Off Ramp		9985	0	0		0		2650		7335	
Ojibway Pkwy/401 NB On Ramp		11787	0	0		0		4046		7741	
EC ROW to 401 NB On Ramp		14784	0	0		0		5750		9035	
		0	0								
Canadian Plaza		0	24160		5		4		9967		14184
Ojibway/401 SB Off Ramp		0	22596		5		4		9251		13336
Ojibway/401 SB On Ramp		0	46455		19712		706		9803		16234
401 to EC ROW SB Off Ramp		0	28226		5883		370		5089		16884
Malden/401 SB Off Ramp		0	22034		3308		92		3986		14648
HC Rd/401 SB On Ramp		0	32298		13225		363		5383		13326
St Clair/401 SB Off Ramp		0	25302		8965		288		4133		11916
St Clair/401 SB On Ramp		0	30276		12870		318		4468		12619
Hwy 3/401 SB Off Ramp		0	18224		7452		179		2868		7724
Hwy 3/401 SB On Ramp		0	30963		14374		339		3738		12511
		0	0								
FROM											
Chappus		8986	11723	7792	10551	353	442	840	730	0	0
401 S. Ramp		10214	6953	8881	6263	400	261	933	428	0	0
N. of 401 N. Ramp		6704	7907	5840	7121	262	297	602	489	0	0
Chappus		9695	9770	9635	9398	0	0	60	372	0	0
EC Row S. Ramp		3096	11386	3051	10826	0	0	44	560	0	0
EC Row N. Ramp		6874	3918	6820	3508	0	0	54	410	0	0
Montgomery		109	206	105	196	1	2	3	5	0	4
Surrey		73	238	70	224	1	3	2	10	0	1
Grosvenor		127	223	121	211	1	3	4	8	0	2

**TABLE A- 17 24-HOUR ANNUAL AVERAGE DAILY TRAFFIC (AADT) FOR PARKWAY – YEAR 2015**

LOCATION	SECTION		24 Hour AADT									
			Total Cars and Trucks		Local Cars		Local Trucks		International Cars		International Trucks	
			FROM	TO	NB / WB	SB / EB	NB / WB	SB / EB	NB / WB	SB / EB	NB / WB	SB / EB
HC Road	Riverside	University	6911	5457	6735	5369	173	84	8	1	0	3
	Wyandotte	Wyandotte	3258	3990	3090	3626	91	118	58	242	20	3
	Wyandotte	AMB Off Ramp	2322	3177	2285	3005	0	0	37	173	0	0
	AMB Off Ramp	College	17448	6723	8617	6728	229	94	6211	1	2391	0
	College St	Girardot St	25364	24092	18755	16675	543	487	6361	4419	205	2512
	Girardot St	Tecumseh Rd	24197	23801	17763	17139	636	571	5615	3744	182	2347
	Tecumseh Rd	Dorchester St	27469	27266	21118	21024	778	716	5388	3342	186	2185
	Dorchester St	Prince Rd/Totten St	27511	28532	21714	22815	693	656	4945	3065	159	1997
	Prince Rd/Totten St	Malden Rd	30088	31791	24278	26074	777	747	4852	3020	180	1940
	Malden Rd	Industrial Rd	24739	26772	19251	21280	577	580	4904	3158	7	1837
	Industrial Rd	EC Row N. Ramp Terminal	27169	28916	21772	23501	662	652	4735	2918	0	1845
	EC Row N. Ramp Terminal	S. of EC Row S. Ramp Terminal	28521	35043	20057	30308	531	646	5233	2573	0	1516
S Service Rd	N. of Bethlehem Ave	0	29261	0	24519	0	427	0	2759	0	1556	
	Bethlehem Ave	0	5258	0	4817	0	125	0	316	0	0	
N Service Rd	N. of Labelle St	27505	0	23407	0	478	0	3620	0	0	0	
	Labelle St	25346	0	23702	0	256	0	1388	0	0	0	
HC Road	Grand Marais Rd	7630	4265	7090	4053	11	25	529	187	0	0	
	Pulford St	7166	4743	7150	4210	16	34	0	0	0	0	
	Todd Ln/Cabana Rd	15881	12383	15077	11891	174	111	630	381	0	0	
Talbot Road	Huron Church Line	11107	9691	11058	9634	49	57	0	0	0	0	
	St Clair College	9229	8012	8007	6624	77	89	1145	1166	0	133	
	Cousineau Dr	3772	2696	3064	2343	130	45	527	729	0	79	
	Howard Ave	11607	11385	11366	11167	24	224	0	0	0	0	
	S. of Laurier Extension	12021	11914	11771	11680	250	234	0	0	0	0	
Ojibway Pwy	EC Row Expressway	10180	10556	9926	9978	137	137	27	14	91	427	
	GN Booth Dr	10116	10433	9861	9845	136	135	27	15	91	438	
	Sandwich St	9478	9729	9354	9613	75	78	50	37	0	0	
	N. of Prospect Ave	9415	9510	9297	9397	75	77	49	36	0	0	
	CROSSING ROADS				NB / WB	SB / EB	NB / WB	SB / EB	NB / WB	SB / EB	NB / WB	SB / EB
Wyandotte	W of Huron Church	5168	4869	4808	4435	0	0	359	435	0	0	
	E of Huron Church	3574	5121	2813	4048	21	135	722	937	18	0	
University	W of Huron Church	1254	1192	1254	1192	0	0	0	0	0	0	
	E of Huron Church	2138	2118	1947	1986	118	91	70	21	3	20	
Riverside	W of Huron Church	3390	3487	3390	3487	0	0	0	0	0	0	
	E of Huron Church	6770	5671	6598	5633	0	0	173	37	0	0	
AMB Off Ramp	E of Huron Church	0	12464	0	931	0	43	0	7710	0	3781	
AMB On Ramp	E of Huron Church	6286	0	309	0	11	0	5792	0	174	0	
Patricia	AMB	4111	5195	552	1458	21	57	3367	3412	171	267	
College St	E. of HC Road	6514	6361	6343	5558	168	124	3	535	0	144	
	W. of HC Road	1867	806	1670	752	0	0	197	54	0	0	
Girardot St	E. of HC Road	1133	1160	1017	1029	0	0	116	130	0	0	
	W. of HC Road	2346	2275	2258	2216	41	25	48	33	0	0	
Tecumseh Rd	E. of HC Road	5829	6836	5489	6174	139	148	201	359	0	156	
	W. of HC Road	6604	6994	6420	6866	0	0	184	127	0	0	
Dorchester St	E. of HC Road	1693	1533	1520	1350	0	0	173	183	0	0	
	W. of HC Road	1419	807	1370	786	26	10	24	11	0	0	
Prince Rd/Totten St	E. of HC Road	2075	2907	1998	2777	0	0	77	130	0	0	
	W. of HC Road	4782	5176	4701	5101	0	0	81	76	0	0	
Malden Rd	E. of HC Road	1377	1126	1172	923	0	0	205	203	0	0	
	W. of HC Road	7891	8417	6798	7406	386	398	553	38	154	576	
Industrial Rd	E. of HC Road	3619	3426	3425	3181	49	57	139	172	6	16	
	W. of HC Road	4072	3166	3914	2791	158	192	0	0	183	0	
EC Row N. Ramp Terminal	E. of HC Road (E-N/S Off Ramp & S-W On Ramp)	14334	2042	13014	1881	270	0	1050	162	0	0	
	W. of HC Road (N-W On Ramp)	607	0	420	0	14	0	51	0	122	0	
EC Row S. Ramp Terminal	E. of HC Road (S-E On Ramp)	0	7407	0	7341	0	66	0	0	0	0	
	W. of HC Road (N-E On Ramp & W-N/S Off Ramp)	8637	2904	7642	2447	263	81	451	376	280	0	
				WB	EB	WB	EB	WB	EB	WB	EB	
Labelle St/Bethlehem Ave	E. of N. Service Rd	2903	2203	2670	2014	0	0	234	190	0	0	
	between N. and S. Service Rd	1403	3202	1403	3105	0	0	0	97	0	0	
	W. of S. Service Rd	1804	3255	1803	3251	0	0	2	4	0	0	
Grand Marais Rd/Lambton Rd	E. of HC Rd	3982	3270	3730	3026	0	0	251	244	0	0	
	W. of HC Rd	1714	1960	1647	1912	29	17	38	32	0	0	
Pulford St	E. of HC Rd	2407	1762	2147	1567	0	0	261	195	0	0	
	E. of HC Rd	8767	7221	8220	6607	0	0	547	613	0	0	
Todd Ln/Cabana Rd	between HC Rd and Hwy 401 Off-ramp	7871	13883	7871	12346	0	0	0	1537	0	0	
	W. of Hwy 401 Off-ramp	9953	10417	9940	10406	0	0	13	10	0	0	
Huron Church Line	W. of HC Rd	7456	6841	7022	6398	93	98	341	345	0	0	
St Clair College	E. of Talbot Rd	3009	9320	2914	9043	0	0	95	277	0	0	
Cousineau Dr	E. of Talbot Rd	6321	5777	5201	4740	0	0	1120	1037	0	0	
	W. of Talbot Rd	7099	5807	7099	5807	0	0	0	0	0	0	
Howard Ave	E. of Talbot Rd	7718	8092	7585	7941	133	148	0	3	0	0	
	W. of Talbot Rd	6911	8038	6746	7837	152	183	13	17	0	0	
Laurier Extension	W. of Talbot Rd/Hwy 3	6658	6543	6500	6380	146	149	13	14	0	0	
EC Row Expressway	E. of Huron Church Rd	35042	43067	31755	37865	679	775	2215	3256	393	1170	
	W. of Malden Rd	23389	26224	21069	21815	452	480	1318	3004	550	926	
	W. of Matchette	16125	21479	15668	20472	369	1007	20	0	67	0	
GN Booth Dr	W. of Ojibway Pwy	357	461	346	448	7	8	4	5	0	0	
Sandwich St	W. of Ojibway Pwy	1533	1388	1361	1261	148	91	24	35	0	0	
Prospect Ave	W. of Ojibway Pwy	342	437	331	426	7	4	4	7	0	0	



TABLE A-17 CONTD.

HIGHWAY 401 Mainline			NB / WB	SB / EB	NB / WB	SB / EB	NB / WB	SB / EB	NB / WB	SB / EB	
S. of Hwy 3 merge/split		19954	21530	11418	10688	322	249	3100	3035	5113	7557
N. of Howard Ave		14215	22874	7630	11262	237	275	2666	8633	3682	7704
At Grand Marais Rd		18476	30697	11664	17304	284	374	3149	5005	3379	8013
E. of Malden Rd		5001	11469	1269	2585	37	71	4054	2549	2630	6264
To/From Canadian Plaza		9990	17980	0	3	2		4203	8626	5784	9346
HIGHWAY 401 Ramps			NB / WB	SB / EB	NB / WB	SB / EB	NB / WB	SB / EB	NB / WB	SB / EB	
Hwy 3 merge/split		14237	0	11849	0	255	0	1529	0	603	0
401 NB Off Ramp (prior to Highway 3 / Laurier split)		8722	0	8587	0	165	0	0	0	0	0
401 NB On Ramp		0	8660	0	8492	0	168	0	0	0	0
401 SB Off Ramp		0	5656	0	4321	0	111	0	986	0	238
401 SB On Ramp		0	0	NB / WB	SB / EB	NB / WB	SB / EB	NB / WB	SB / EB	NB / WB	SB / EB
At Howard Ave		745	0	731	0	74	0	0	0	0	0
401 NB On Ramp		0	4521	0	3454	0	89	0	788	0	190
401 SB On Ramp		0	0	NB / WB	SB / EB	NB / WB	SB / EB	NB / WB	SB / EB	NB / WB	SB / EB
At St. Clair College		4553	0	4535	0	17	0	0	0	0	0
401 NB Off Ramp		0	5307	0	4632	0	59	0	615	0	0
401 SB Off Ramp (direct ramp to Hwy 3)		0	5498	0	5471	0	27	0	0	0	0
401 SB On Ramp		0	0	NB / WB	SB / EB	NB / WB	SB / EB	NB / WB	SB / EB	NB / WB	SB / EB
At Todd Ln / Cabana Rd		7975	0	7014	0	96	0	864	0	0	0
401 NB On Ramp		0	7857	0	6858	0	88	0	910	0	0
401 SB Off Ramp (direct ramp to Todd lane)		0	0	NB / WB	SB / EB	NB / WB	SB / EB	NB / WB	SB / EB	NB / WB	SB / EB
At Huron Church Rd		13238	0	10987	0	257	0	1993	0	0	0
401 NB Off Ramp		0	19424	0	15256	0	313	0	2360	0	1496
401 SB On Ramp		0	0	NB / WB	SB / EB	NB / WB	SB / EB	NB / WB	SB / EB	NB / WB	SB / EB
EC Row Expressway EB to Hwy 401		1496	0	0	0	0	0	1222	0	274	0
401 NB On Ramp from EC ROW EB		0	1092	0	126	0	10	0	956	0	0
401 SB Off Ramp to EC Row WB		0	0	NB / WB	SB / EB	NB / WB	SB / EB	NB / WB	SB / EB	NB / WB	SB / EB
EC Row Expressway WB to Hwy 401		2083	0	0	0	0	0	1309	0	774	0
401 NB On Ramp from EC ROW WB		0	0	NB / WB	SB / EB	NB / WB	SB / EB	NB / WB	SB / EB	NB / WB	SB / EB
EC Row Expressway EB / Huron Church Road		0	4166	0	2948	0	71	0	892	0	256
401 SB Off Ramp to EC Row EB / Huron Church Rd		0	0	NB / WB	SB / EB	NB / WB	SB / EB	NB / WB	SB / EB	NB / WB	SB / EB
At Malden Rd		541	0	417	0	69	0	45	0	10	0
401 NB On Ramp		0	879	0	574	0	121	0	183	0	0
401 SB Off Ramp											
FROM		TO			NB / WB	SB / EB	NB / WB	SB / EB	NB / WB	SB / EB	
S. of Hwy 3 merge/split	Hwy 3/401 NB Off Ramp	19954	0	11418	0	322	0	3100	0	5113	0
Hwy 3/401 NB Off Ramp	Hwy 3/401 NB On Ramp	5337	0	1664	0	67	0	1318	0	2289	0
Hwy 3/401 NB On Ramp	Howard NB On Ramp	14215	0	7630	0	237	0	2666	0	3682	0
Howard NB On Ramp	St. Clair/401 NB Off Ramp	14993	0	8048	0	250	0	2812	0	3883	0
St. Clair/401 NB Off Ramp	Pulford/401 NB On Ramp	9858	0	4828	0	194	0	2123	0	2713	0
Pulford/401 NB On Ramp	HC Rd/401 NB Off Ramp	19571	0	10722	0	349	0	3920	0	4580	0
HC Rd/401 NB Off Ramp	EC Row EB to 401 NB On Ramp	4502	0	2842	0	69	0	767	0	823	0
EC Row EB to 401 NB On Ramp	EC Row WB to 401 NB On Ramp	6982	0	0	0	0	0	2214	0	4768	0
EC Row WB to 401 NB On Ramp	Malden/401 NB On Ramp	9032	0	0	0	0	0	3789	0	5242	0
Malden/401 NB On Ramp	Canadian Plaza	9987	0	0	0	0	0	4203	0	5784	0
Canadian Plaza	Malden/401 SB Off Ramp	0	17980	0	3	0	0	8626	0	9346	0
Malden/401 SB Off Ramp	401 SB to EC Row EB / HC Rd Off-ramp	0	17031	0	3	0	0	8130	0	8894	0
401 SB to EC Row EB / HC Rd Off-ramp	401 SB to EC Row WB Off-ramp	0	12313	0	2	0	0	5878	0	6430	0
401 SB to EC Row WB Off-ramp	HC Rd/401 SB On Ramp	0	10974	0	2	0	0	5239	0	5731	0
HC Rd/401 SB On Ramp	Pulford/401 SB Off Ramp	0	30697	0	17304	0	374	0	5005	0	8013
Pulford/401 SB Off Ramp	St Clair/401 SB Off Ramp	0	22166	0	12495	0	270	0	3614	0	5787
St Clair/401 SB Off Ramp	St Clair/401 SB On Ramp	0	16809	0	8043	0	211	0	2960	0	5596
St Clair/401 SB On Ramp	Howard SB On Ramp	0	22874	0	11262	0	275	0	3633	0	7704
Howard SB On Ramp	Hwy 3/401 SB Off Ramp	0	27843	0	13822	0	322	0	3925	0	9773
Hwy 3/401 SB Off Ramp	Hwy 3/401 SB On Ramp	0	18004	0	8530	0	204	0	3073	0	6197
Hwy 3/401 SB On Ramp	S. of Hwy 3 merge/split	0	21530	0	10688	0	249	0	3035	0	7557
S. of Hwy 3 merge/split	401 S. Ramp	8966	11480	7966	10186	345	490	655	804	0	0
401 S. Ramp	401 N. Ramp	9957	7916	8856	7008	383	341	718	567	0	0
N. of 401 N. Ramp	EC Row S. Ramp	7195	8613	6410	7630	276	370	510	613	0	0
EC Row S. Ramp	EC Row N. Ramp	8512	7933	8363	7730	0	0	149	203	0	0
EC Row N. Ramp	Carmichael	2620	8916	2477	8734	0	0	144	182	0	0
Carmichael		4861	3303	4744	3150	0	0	117	153	0	0

**TABLE A- 18 24-HOUR ANNUAL AVERAGE DAILY TRAFFIC (AADT) FOR PARKWAY – YEAR 2025**

LOCATION	SECTION		24 Hour AADT					
			Total Cars and Trucks		Local Cars		Local Trucks	
			FROM	TO	NB / WB	SB / EB	NB / WB	SB / EB
HC Road	Riverside	University	6986	5610	6800	5480	184	89
	University	Wyandotte	3233	4092	3052	3697	91	121
	Wyandotte	AMB Off Ramp	2280	3224	2234	3061	0	0
	AMB Off Ramp	College	18348	6447	8494	6347	234	100
	College St	Girardot St	26218	24966	18669	16795	572	497
	Girardot St	Tecumseh Rd	25129	25158	18255	17710	683	597
	Tecumseh Rd	Dorchester St	28309	28199	21600	21412	834	741
	Dorchester St	Prince Rd/Totten St	28358	29470	22280	23208	743	678
	Prince Rd/Totten St	Malden Rd	30998	33157	24902	27007	831	798
	Malden Rd	Industrial Rd	24761	28255	19169	22115	608	631
	Industrial Rd	EC Row N. Ramp Terminal	28022	30240	22450	24431	704	687
	EC Row N. Ramp Terminal	EC Row S. Ramp Terminal	26150	38090	20176	32888	559	713
		S. of EC Row S. Ramp Terminal	29919	35496	24538	30425	662	522
	S Service Rd	N. of Bethlehem Ave	0	31059	0	26115	0	470
	Bethlehem Ave	0	5649	0	5175	0	138	
N Service Rd	N. of Labelle St	30541	0	25865	0	555	0	
	Labelle St	28423	0	26585	0	307	0	
HC Road	Grand Marais Rd	Pulford St	8190	4743	7647	4554	11	15
	Pulford St	Todd Ln/Cabana Rd	7912	4880	7883	4857	16	23
	Todd Ln/Cabana Rd	Huron Church Line	16915	13881	15998	13297	195	120
Talbot Road	Huron Church Line	St Clair College	11982	10375	11896	10307	86	67
	St Clair College	Cousineau Dr	9448	8541	8149	6995	85	93
	Cousineau Dr	Howard Ave	8810	2709	8086	2324	130	42
	Howard Ave	Laurier Extension	12429	12257	12176	12019	253	237
	Laurier Extension	S. of Laurier Extension	12974	12826	12710	12577	264	248
Ojibway Pwy	EC Row Expressway	GN Booth Dr	10894	11127	10615	10438	140	134
	GN Booth Dr	Sandwich St	10830	10928	10549	10237	139	132
	Sandwich St	Prospect Ave	10088	10069	9965	9953	74	74
	Prospect Ave	N. of Prospect Ave	10025	9858	9903	9744	74	73
CROSSING ROADS					NB / WB	SB / EB	NB / WB	SB / EB
Wyandotte		W of Huron Church	5099	4858	4729	4420	0	0
		E of Huron Church	3562	5201	2772	4133	18	142
University		W of Huron Church	1365	1272	1365	1272	0	0
		E of Huron Church	2311	2214	2079	2079	121	91
Riverside		W of Huron Church	3552	3655	3552	3655	0	0
AMB Off Ramp		E of Huron Church	6981	5782	6817	5737	0	0
AMB On Ramp		W of Huron Church	0	12464	0	931	0	43
Patricia	AMB	Wyandotte	6558	0	246	0	6	0
College St		W of HC Road	4149	5049	435	1328	13	54
		E. of HC Road	6603	6526	6437	5640	163	127
Girardot St		W. of HC Road	2068	956	1677	904	0	0
		E. of HC Road	1154	1148	1032	1014	0	0
Tecumseh Rd		W. of HC Road	2296	2202	2208	2148	42	25
		E. of HC Road	5786	6844	5448	6099	137	145
Dorchester St		W. of HC Road	6488	7115	6271	6983	0	0
		E. of HC Road	1726	1557	1544	1361	0	0
Prince Rd/Totten St		W. of HC Road	1419	808	1369	787	26	10
		E. of HC Road	2213	2353	2133	2247	0	0
Malden Rd		W. of HC Road	5515	5545	5414	5466	0	0
		E. of HC Road	1631	1358	1355	1081	0	0
Industrial Rd		W. of HC Road	8223	8875	7049	7669	401	393
		E. of HC Road	3926	3674	3722	3440	48	57
EC Row N. Ramp Terminal		W. of HC Road	4262	3458	4094	3044	168	204
		E. of HC Road (E-N/S Off Ramp & S-W On Ramp)	16245	2068	14906	1894	311	0
EC Row S. Ramp Terminal		W. of HC Road (N-W On Ramp)	583	0	380	0	11	0
		E. of HC Road (S-E On Ramp)	0	10547	0	10444	0	103
	W. of HC Road (N-E On Ramp & W-N/S Off Ramp)	9466	3083	8237	2636	296	85	
Labelle St/Bethlehem Ave		E. of N. Service Rd	3112	2438	2867	2223	0	0
		between N. and S. Service Rd	1232	3565	1232	3459	0	0
		W. of S. Service Rd	1678	4360	1676	4354	0	0
Grand Marais Rd/Lambton Rd		E. of HC Rd	4372	3595	4139	3339	0	0
		W. of HC Rd	1876	2193	1801	2141	34	20
Todd Ln/Cabana Rd		E. of HC Rd	2635	1928	2341	1707	0	0
		between HC Rd and Hwy 401 Off-ramp	9440	7526	8902	6838	0	0
		W. of Hwy 401 Off-ramp	8307	17117	8307	14977	0	0
			11908	11817	11893	11806	0	0

TABLE A-18 CONT'D.

HIGHWAY 401 Mainline				NB / WB	SB / EB	NB / WB	SB / EB		
S. of Hwy 3 merge/split		24657	27440	14332	13309	407	303		
N. of Howard Ave		18139	26502	9295	11967	298	292		
At Grand Manis Rd		24696	36588	15060	19589	375	420		
E. of Malden Rd		7354	13403	1643	2597	48	66		
To/From Canadian Plaza		12620	21442	1	5	3	4		
HIGHWAY 401 Ramps									
<b>Hwy 3 merge/split</b>				NB / WB	SB / EB	NB / WB	SB / EB		
	401 NB Off Ramp (prior to Highway 3 / Laurier split)	15464	0	12538	0	271	0		
	401 NB On Ramp	9051	0	8883	0	168	0		
	401 SB Off Ramp	0	9136	0	8965	0	171		
	401 SB On Ramp	0	6167	0	4518	0	114		
<b>At Howard Ave</b>				NB / WB	SB / EB	NB / WB	SB / EB		
	401 NB On Ramp	776	0	761	0	14	0		
	401 SB On Ramp	0	4758	0	3485	0	88		
<b>At St. Clair College</b>				NB / WB	SB / EB	NB / WB	SB / EB		
	401 NB Off Ramp	5083	0	5003	0	29	0		
	401 SB Off Ramp (direct ramp to Hwy 3)	0	6270	0	5537	0	67		
	401 SB On Ramp	0	5906	0	5872	0	33		
<b>At Todd Ln / Cabana Rd</b>				NB / WB	SB / EB	NB / WB	SB / EB		
	401 NB On Ramp	10756	0	9479	0	137	0		
	401 SB Off Ramp (direct ramp to Todd lane)	0	9406	0	8305	0	100		
<b>At Huron Church Rd</b>				NB / WB	SB / EB	NB / WB	SB / EB		
	401 NB Off Ramp	17108	0	14155	0	344	0		
	401 SB On Ramp	0	22430	0	17849	0	367		
<b>EC Row Expressway EB to Hwy 401</b>				NB / WB	SB / EB	NB / WB	SB / EB		
	401 NB On Ramp from EC ROW EB	1689	0	0	0	0	0		
<b>Hwy 401 to EC Row Expressway WB</b>				NB / WB	SB / EB	NB / WB	SB / EB		
	401 SB Off Ramp to EC Row WB	0	1135	0	155	0	14		
<b>EC Row Expressway WB to Hwy 401</b>				NB / WB	SB / EB	NB / WB	SB / EB		
	401 NB On Ramp from EC ROW WB	2521	0	0	0	0	0		
<b>B / Huron Church Road</b>				NB / WB	SB / EB	NB / WB	SB / EB		
	401 SB Off Ramp to EC Row EB / Huron Church Rd	0	4716	0	646	0	58		
<b>At Malden Rd</b>				NB / WB	SB / EB	NB / WB	SB / EB		
	401 NB On Ramp	640	0	477	0	65	0		
	401 SB Off Ramp	0	1059	0	739	0	116		
Highway 401 Mainline Vol	FROM	TO							
	S. of Hwy 3 merge/split	Hwy 3/401 NB Off Ramp	24657	0	14332	4	407		
	Hwy 3/401 NB Off Ramp	Hwy 3/401 NB On Ramp	8978	0	2919	4	119		
	Hwy 3/401 NB On Ramp	Howard NB On Ramp	18139	0	9295	4	298		
	Howard NB On Ramp	St. Clair/401 NB Off Ramp	18954	0	9713	4	311		
	St. Clair/401 NB Off Ramp	Pulford/401 NB On Ramp	13267	0	6051	4	250		
	Pulford/401 NB On Ramp	HC Rd/401 NB Off Ramp	24696	0	15060	4	375		
	HC Rd/401 NB Off Ramp	EC Row EB to 401 NB On Ramp	7354	0	1643	4	48		
	EC Row EB to 401 NB On Ramp	EC Row WB to 401 NB On Ramp	8883	0	0	0	0		
	EC Row WB to 401 NB On Ramp	Malden/401 NB On Ramp	11996	0	0	0	0		
	Malden/401 NB On Ramp	Canadian Plaza	12617	0	0	0	0		
	Canadian Plaza	Malden/401 SB Off Ramp	0	21442	5	4	4		
	Malden/401 SB Off Ramp	401 SB to EC Row EB / HC Rd Off-ramp	0	20280	4	4	4		
	401 SB to EC Row EB / HC Rd Off-ramp	401 SB to EC Row WB Off-ramp	0	14206	3	3	3		
	401 SB to EC Row WB Off-ramp	HC Rd/401 SB On Ramp	0	12747	3	2	2		
	HC Rd/401 SB On Ramp	Pulford/401 SB Off Ramp	0	36588	19589	420	301		
	Pulford/401 SB Off Ramp	St Clair/401 SB Off Ramp	0	26254	14056	230	230		
	St Clair/401 SB Off Ramp	St Clair/401 SB On Ramp	0	19917	8698	292	349		
	St Clair/401 SB On Ramp	Howard SB On Ramp	0	26502	11967	292	349		
	Howard SB On Ramp	Hwy 3/401 SB Off Ramp	0	31625	15339	218	303		
	Hwy 3/401 SB Off Ramp	Hwy 3/401 SB On Ramp	0	21212	9196	218	303		
	Hwy 3/401 SB On Ramp	S. of Hwy 3 merge/split	0	27440	13309	303	303		
	Malden	Chappus	401 S. Ramp	9084	11528	7948	10336	341	449
		401 S. Ramp	401 N. Ramp	10193	7192	8938	6456	381	279
		N. of 401 N. Ramp		6982	8058	6129	7230	261	313
	Matchette	Chappus	EC Row S. Ramp	9261	9268	9114	8967	0	0
EC Row S. Ramp		EC Row N. Ramp	2620	10207	2499	9937	0	0	
EC Row N. Ramp		Carmichael	5152	3168	5032	2977	0	0	

**TABLE A-19 24-HOUR ANNUAL AVERAGE DAILY TRAFFIC (AADT) FOR PARKWAY – YEAR 2035**

LOCATION	SECTION		24 Hour AADT										
			Total Cars and Trucks		Local Cars		Local Trucks		International Cars		International Trucks		
			NB / WB	SB / EB	NB / WB	SB / EB	NB / WB	SB / EB	NB / WB	SB / EB	NB / WB	SB / EB	
HC Road	FROM	TO											
	Riverside	University	6924	5840	6718	5664	203	94	3	1	0	81	81
	University	Wyandotte	3108	4254	2886	3812	92	124	68	237	62	247	287
	Wyandotte	AMB Off Ramp	2131	3370	2085	3201	0	0	46	169	0	0	0
	AMB Off Ramp	College	19543	6656	7999	6549	244	106	7545	1	3755	0	0
	College St	Girardot St	26227	25933	18469	16494	574	623	6880	5152	303	3764	3764
	Girardot St	Tecumseh Rd	25638	26525	18403	17853	712	625	6238	4516	284	3530	3530
	Tecumseh Rd	Dorchester St	28797	29299	21703	21695	867	781	5937	3920	289	3103	3103
	Dorchester St	Prince Rd/Totten St	28875	30357	22442	23399	758	705	5418	3417	247	2837	2837
	Prince Rd/Totten St	Malden Rd	31736	34429	25203	27845	865	847	5387	3098	281	2846	2846
	Malden Rd	Industrial Rd	35283	29067	19480	23370	695	693	5267	3218	10	2695	2695
	Industrial Rd	EC Row N. Ramp Terminal	28857	32868	22816	28119	734	752	5107	3365	0	2631	2631
	EC Row N. Ramp Terminal	EC Row S. Ramp Terminal	27189	41670	20771	35653	586	783	5832	3017	0	2217	2217
		S. of EC Row S. Ramp Terminal	32362	39787	28887	33807	798	586	5237	3240	0	2123	2123
S Service Rd	N. of Bethlehem Ave	0	34217	0	28534	0	519	0	3150	0	2015	2015	
	Bethlehem Ave	0	6218	0	5676	0	162	0	379	0	0	0	
N Service Rd	N. of Labelle St	32999	0	27751	0	614	0	4574	0	0	0	0	
	Labelle St	30782	0	28721	0	355	0	1706	0	0	0	0	
HC Road	Grand Marais Rd	8774	8774	8199	5183	12	19	563	192	0	0	0	
	Pulford St	8720	5644	8703	5617	47	27	0	0	0	0	0	
	Todd Ln/Cabana Rd	17838	15721	16787	15016	212	134	839	572	0	0	0	
	Huron Church Line	12692	11023	12538	10648	154	75	0	0	0	0	0	
Talbot Road	St Clair College	9792	9249	8458	7440	82	94	1253	1464	0	252	252	
	Cousineau Dr	9366	2847	8606	2391	120	41	640	288	0	126	126	
	Howard Ave	13137	13283	12869	13019	268	264	0	0	0	0	0	
	S. of Laurier Extension	13639	13900	13361	13624	278	277	0	0	0	0	0	
Ojibway Pwy	EC Row Expressway	11697	11777	11383	10973	146	131	26	19	142	654	654	
	GN Booth Dr	11532	11578	11317	10772	146	129	26	19	143	658	658	
	Sandwich St	10788	10588	10561	10469	76	73	52	47	0	0	0	
	N. of Prospect Ave	10725	10387	10599	10270	75	71	51	46	0	0	0	
CROSSING ROADS					NB / WB	SB / EB	NB / WB	SB / EB	NB / WB	SB / EB	NB / WB	SB / EB	
Wyandotte	W of HuronChurch	5008	4886	4627	4439	0	0	381	446	0	0	0	
	E of HuronChurch	3648	5398	2803	4299	17	157	770	942	58	0	0	
University	W of HuronChurch	1511	1306	1511	1306	0	0	0	0	0	0	0	
	E of HuronChurch	2481	2273	2207	2097	124	92	68	22	81	62	62	
Riverside	W of HuronChurch	3642	3993	3642	3993	0	0	0	0	0	0	0	
	E of HuronChurch	7225	5957	7055	5911	0	0	170	46	0	0	0	
AMB Off Ramp	E of HuronChurch	0	12464	0	931	0	43	0	7710	0	3781	3781	
AMB On Ramp	E of HuronChurch	6917	0	222	0	6	0	6416	0	273	0	273	
Patricia	AMB	4205	4873	389	969	12	42	3571	3469	234	394	394	
College St	E. of HC Road	6758	6581	6583	5598	172	130	4	579	0	273	273	
	W. of HC Road	2272	1076	1720	1027	0	0	542	48	0	0	0	
	E. of HC Road	1162	1155	1037	1025	0	0	125	130	0	0	0	
Girardot St	W. of HC Road	2290	2168	2202	2109	42	26	47	33	0	0	0	
	E. of HC Road	6210	7294	5868	6315	140	146	202	468	0	366	366	
Tecumseh Rd	W. of HC Road	6679	7355	6321	7251	0	0	357	104	0	0	0	
	E. of HC Road	1748	1574	1561	1382	0	0	187	191	0	0	0	
Dorchester St	W. of HC Road	1419	807	1368	785	26	11	24	11	0	0	0	
	E. of HC Road	2311	2888	2228	2764	0	0	83	125	0	0	0	
Prince Rd/Totten St	W. of HC Road	5053	5710	4985	5626	0	0	68	85	0	0	0	
	E. of HC Road	1858	1508	1545	990	0	0	313	519	0	0	0	
Malden Rd	W. of HC Road	8633	9314	7378	7922	405	408	599	52	251	932	932	
	E. of HC Road	4362	3864	3613	3596	45	56	697	185	7	27	27	
Industrial Rd	W. of HC Road	4490	3594	4310	3115	179	210	0	0	0	289	289	
EC Row N. Ramp Terminal	E. of HC Road (E-N/S Off Ramp & S-W On Ramp)	16852	2214	15527	1966	327	6	998	242	0	0	0	
	W. of HC Road (N-W On Ramp)	624	0	389	0	11	0	48	0	178	0	0	
EC Row S. Ramp Terminal	E. of HC Road (S-E On Ramp)	0	12051	0	11928	0	124	0	0	0	0	0	
	W. of HC Road (N-E On Ramp & W-N/S Off Ramp)	10047	3314	8650	2901	325	91	465	322	607	0	0	
				WB	EB	WB	EB	WB	EB	WB	EB	EB	
Labelle St/Bethlehem Ave	E. of N. Service Rd	3336	2617	3077	2391	0	0	259	226	0	0	0	
	between N. and S. Service Rd	1573	3934	1573	3822	0	0	0	112	0	0	0	
	W. of S. Service Rd	2055	3283	2053	3279	0	0	2	4	0	0	0	
Grand Marais Rd/Lambton R	E. of HC Rd	5010	3929	4753	3657	0	0	257	272	0	0	0	
	W. of HC Rd	2056	2428	1973	2362	37	25	46	41	0	0	0	
Pulford St	E. of HC Rd	2876	2107	2549	1878	0	0	327	230	0	0	0	
	E. of HC Rd	10586	8495	10025	7623	0	0	561	872	0	0	0	
Todd Ln/Cabana Rd	between HC Rd and Hwy 401 Off-ramp	9181	19292	9169	19275	0	0	12	17	0	0	0	
	W. of Hwy 401 Off-ramp	13727	13505	13709	13492	0	0	18	12	0	0	0	
Huron Church Line	W. of HC Rd	9041	7983	8500	7407	120	122	422	455	0	0	0	
St Clair College	E. of Talbot Rd	3428	3882	3328	3597	0	0	100	286	0	0	0	
	E. of Talbot Rd	6470	5725	5252	4496	0	0	1218	1230	0	0	0	
Cousineau Dr	W. of Talbot Rd	8816	7424	8816	7416	0	8	0	0	0	0	0	
	E. of Talbot Rd	9246	9953	9089	9762	157	187	0	4	0	0	0	
Howard Ave	W. of Talbot Rd	8179	10157	7987	9906	172	224	20	27	0	0	0	
Laurier Extension	W. of Talbot Rd/Hwy 3	7881	8274	7715	8091	165	183	0	0	0	0	0	
EC Row Expressway	E. of Huron Church Rd	49128	56156	42770	45577	897	1024	3995	7217	1466	2338	2338	
	W. of Malden Rd	36660	33578	35313	31763	845	1386	272	344	229	86	86	
	W. of Matchette	27855	25045	26963	24357	532	419	360	269	0	0	0	
GN Booth Dr	W. of Ojibway Pwy	357	461	345	448	7	8	5	5	0	0	0	
Sandwich St	W. of Ojibway Pwy	1775	1630	1598	1499	156	102	21	29	0	0	0	
Prospect Ave	W. of Ojibway Pwy	342	437	331	425	7	5	4	7	0	0	0	

TABLE A-19 CONT'D.

HIGHWAY 401 Mainline				NB / WB	SB / EB	NB / WB	SB / EB	NB / WB	SB / EB	NB / WB
S. of Hwy 3 merge/split		28867	32317	16565	14965	699	501	3761	3747	7841
N. of Howard Ave		21434	29449	10293	11792	149	690	4139	4840	6853
At Grand Marais Rd		27665	40606	16371	20616	416	434	4619	6262	6259
E. of Malden Rd		8751	15479	1743	2549	52	63	1630	3053	5326
To/From Canadian Plaza		14748	24132	1	5	3	4	5779	10031	8965
HIGHWAY 401 Ramps				NB / WB	SB / EB	NB / WB	SB / EB	NB / WB	SB / EB	NB / WB
Hwy 3 merge/split										
401 NB Off Ramp (prior to Highway 3 / Laurier split)		16787	0	13245	284	2150	1107			
401 NB On Ramp		9298	0	9120	178	0	0			
401 SB Off Ramp		0	9308	9131	178	0	0			
401 SB On Ramp		0	6996	4978	125	1462				
At Howard Ave		0	0	NB / WB	SB / EB	NB / WB	SB / EB	NB / WB	SB / EB	NB / WB
401 NB On Ramp		795	0	780	15	0	0			
401 SB On Ramp		0	5488	3805	98	1146				
At St. Clair College		0	0	NB / WB	SB / EB	NB / WB	SB / EB	NB / WB	SB / EB	NB / WB
401 NB Off Ramp		5297	0	5247	49	0	0			
401 SB Off Ramp (direct ramp to Hwy 3)		0	7431	6480	76	875				
401 SB On Ramp		0	6223	6186	37	0				
At Todd Ln / Cabana Rd				NB / WB	SB / EB	NB / WB	SB / EB	NB / WB	SB / EB	NB / WB
401 NB On Ramp		10643	0	9265	146	1232	0			
401 SB Off Ramp (direct ramp to Todd lane)		0	9590	8362	98	1130				
At Huron Church Rd.				NB / WB	SB / EB	NB / WB	SB / EB	NB / WB	SB / EB	NB / WB
401 NB Off Ramp		18688	0	15412	382	2894	2949			
401 SB On Ramp		0	24870	19414	391	2949	0			
EC Row Expressway EB to Hwy 401				NB / WB	SB / EB	NB / WB	SB / EB	NB / WB	SB / EB	NB / WB
401 NB On Ramp from EC ROW EB		1805	0	0	0	1413	0			
Hwy 401 to EC Row Expressway/WB				NB / WB	SB / EB	NB / WB	SB / EB	NB / WB	SB / EB	NB / WB
401 SB Off Ramp to EC Row WB		0	1479	0	0	1140	0			
EC Row Expressway WB to Hwy 401				NB / WB	SB / EB	NB / WB	SB / EB	NB / WB	SB / EB	NB / WB
401 NB On Ramp from EC ROW WB		3029	0	0	0	1865	0			
Hwy 401 to EC Row Expressway EB / Huron Church Road				NB / WB	SB / EB	NB / WB	SB / EB	NB / WB	SB / EB	NB / WB
401 SB Off Ramp to EC Row EB / Huron Church Rd		0	5890	0	0	4541	0			
At Malden Rd				NB / WB	SB / EB	NB / WB	SB / EB	NB / WB	SB / EB	NB / WB
401 NB On Ramp		591	0	0	0	463	128			
401 SB Off Ramp		0	1232	0	0	950	0			
FROM		TO								
S. of Hwy 3 merge/split	Hwy 3/ 401 NB Off Ramp	28867	0	16461	491	3865	8049			
Hwy 3/ 401 NB Off Ramp	Hwy 3/401 NB On Ramp	12071	0	3912	173	2508	5478			
Hwy 3/401 NB On Ramp	Howard NB On Ramp	21434	0	10618	360	3814	6642			
Howard NB On Ramp	St. Clair/401 NB Off Ramp	22229	0	11398	375	3814	6642			
St. Clair/401 NB Off Ramp	Pulford/401 NB On Ramp	16990	0	8027	275	3088	4600			
Pulford/401 NB On Ramp	HC Rd/401 NB Off Ramp	27665	0	16371	416	4619	6259			
HC Rd/401 NB Off Ramp	EC Row EB to 401 NB On Ramp	8751	0	1743	52	1630	5326			
EC Row EB to 401 NB On Ramp	EC Row WB to 401 NB On Ramp	10640	0	0	0	3737	6903			
EC Row WB to 401 NB On Ramp	Malden/401 NB On Ramp	14608	0	0	0	5131	9478			
Malden/401 NB On Ramp	Canadian Plaza	14744	0	0	0	5779	8965			
Canadian Plaza	Malden/401 SB Off Ramp	0	24132	5	4	10031				
Malden/401 SB Off Ramp	401 SB to EC Row EB / HC Rd Off-ramp	0	22846	5	3	9426				
B to EC Row EB / HC Rd Off-ramp	401 SB to EC Row WB Off-ramp	0	16214	3	2	6690				
401 SB to EC Row WB Off-ramp	HC Rd/401 SB On Ramp	0	14549	3	2	6003				
HC Rd/401 SB On Ramp	Pulford/401 SB Off Ramp	0	40606	20616	434	6262				
Pulford/401 SB Off Ramp	St. Clair/401 SB Off Ramp	0	29962	15212	320	4621				
St. Clair/401 SB Off Ramp	St. Clair/401 SB On Ramp	0	22443	8963	240	3686				
St. Clair/401 SB On Ramp	Howard SB On Ramp	0	29449	12283	303	4349				
Howard SB On Ramp	Hwy 3/401 SB Off Ramp	0	33686	16236	381	4216				
Hwy 3/401 SB Off Ramp	Hwy 3/401 SB On Ramp	0	23741	9881	237	2963				
Hwy 3/401 SB On Ramp	S. of Hwy 3 merge/split	0	32317	14855	349	3857				
Chappus	401 S. Ramp	9447	12207	8232	10979	965	456	851	772	0
401 S. Ramp	401 N. Ramp	10678	7440	9326	6705	410	275	941	460	0
N. of 401 N. Ramp		7149	8393	6252	7560	274	311	622	522	0
Chappus	EC Row S. Ramp	9542	10489	9486	10131	0	0	56	359	0
EC Row S. Ramp	EC Row N. Ramp	2675	11452	2641	10945	0	0	34	507	0
EC Row N. Ramp	Carmichael	5719	3316	5681	2975	0	0	39	343	0

Highway 401 Mainline Vol

Appendix B:  
MOBILE 6.2 Modelling Results

DRAFT

## MEMORANDUM

**To:** Ms. Abby Salb, SENES  
**From:** Tom Darlington  
**Date:** December 8, 2005  
**Subject:** Emission Rates for Windsor/Detroit Crossing Project

---

This memo details the models, inputs, and procedures used to estimate on-road mobile source emission rates for various vehicle types for the Windsor/Detroit Crossing project.

This memo focuses on the emission rates from all vehicle types except idle emissions from heavy-duty diesel vehicles. The idle emissions from heavy-duty diesel vehicles are described in a separate AIR memo. [1]

This memo is divided into the following sections:

- Background
- Models
- Seasons and ambient temperatures
- Vehicle speeds
- Fuel inputs
- Results

### Background

Detroit and Windsor are studying the possibility of adding a second Detroit River facility to augment the current Ambassador Bridge and tunnel. Such a crossing would change emissions of vehicles on both sides of the crossing. For example, heavy-duty diesel trucks may experience reduced idle times if the crossing were added. Light duty vehicles may also experience reduced idle times and somewhat higher average speeds in the vicinity of the crossings. At the same time, cross-border traffic could increase, as the time it takes to cross the border is reduced.

A key part of the study is to estimate the impact of a new crossing on traffic flow on both sides, and the resultant impact on vehicle emissions. To estimate these emission impacts requires detailed information about emission rates at idle, and at various speeds, for all the different vehicle types, and also detailed projections of traffic flow, and the projected impact of the crossing on traffic flow in the vicinity of the crossing.

The purpose of this memo is to describe the methods used to estimate emissions on both the U.S. and Canadian side of the crossing. SENES contracted with AIR to estimate vehicle emissions for all of the various vehicle types, for both sides of the crossing. AIR assisted EPA in the development of the MOBILE6 model, and also developed the MOBILE6.2C model for Environment Canada. These models estimate emissions for a number of different vehicle types. The emissions are estimated in units of g/mi for vehicles not at idle, and in units of g/hr for vehicles at idle.

### Models Used

AIR used EPA's MOBILE6.2 model for the Detroit side, and used Environment Canada's M6C25PPM model for Windsor. The M6C25PPM model is a Canadian version of the MOBILE6 model that incorporates fuel changes and many other changes that are specific to the Canadian fleet. Both models estimate all of the pollutants needed in this evaluation, however, AIR utilized more up-to-date procedures for estimating emissions from idling heavy-duty diesel trucks.

The following pollutants were estimated:

- VOC
- CO
- NO<sub>x</sub>
- SO<sub>2</sub>
- PM<sub>2.5</sub>
- CO<sub>2</sub>
- Methane
- 1,3 butadiene
- Acrolein
- Formaldehyde
- Acetaldehyde
- Benzene

The above pollutants were estimated for a base year, 2004, and two projection years, 2013 and 2023.

### Seasons and Ambient Temperatures

Emissions are estimated for the four seasons. Average minimum and maximum temperatures for these seasons were determined for both locations using 30 years of data from the National Weather Service for the US, and from Environment Canada for Canada. The ambient temperatures for the two locations are shown in Table B.1 below.



Season	Detroit		Windsor	
	Winter	22.8	35.6	19.7
Spring	38.8	57.7	37.3	55.4
Summer	67.1	88.9	60.4	79.9
Autumn	43.4	60.9	46.7	60.2

### Vehicle Speeds

Vehicle speed inputs were obtained from SENES. Emissions were estimated for the following speeds: Idle (2.5 mph), 15.5, 31.1, 46.6, and 62.1 mph. The same speeds were used for both sides of the border.

### Fuel Inputs

Both models used default gasoline and diesel fuel sulfur levels for Canada and the U.S. Detailed gasoline inputs are also needed to compute toxics emission rates. Ontario fuel property data was obtained from Natural Resources Canada. [2] Data for Detroit was obtained from The Alliance of Automobile Manufacturers. [3] Fuel characteristics are shown in Table B.2.

City	Season	RVP (psi)	E200 (%)	E300 (%)	Arom. (%)	Olef. (%)	Benzene (%)	% with ETOH	ETOH Concen.
Detroit	Winter	14.4	53.8	82.7	26.8	6.9	1.7	25%	9.75%
	Spring	11.0	47.7	81.2	29.4	8.5	1.6	25%	9.75%
	Summer	7.6	41.6	79.6	32.0	10.0	1.5	25%	9.75%
	Fall	11.0	47.7	81.2	29.4	8.5	1.6	25%	9.75%
Windsor	Winter	14.6	53.9	84.4	25.1	9.0	0.73	100%	1.92%
	Spring	12.1	50.9	83.4	26.9	9.3	0.73	100%	1.92%
	Summer	9.7	47.9	82.4	28.8	9.7	0.73	100%	1.92%
	Fall	12.1	50.9	83.4	26.9	9.3	0.73	100%	1.92%

Gasoline and diesel sulphur levels that are contained in both models for 2003, 2013, and 2023 are shown in Table B.3.

Fuel	Year	Sulphur Level (ppm) - Windsor	Sulphur Level (ppm) – Detroit
Gasoline	2004	52	170-180 ppm ,depending on season
	2013	25	30
	2023	25	30
Diesel	2004	320	365
	2013	15	11
	2023	15	11

## Technologies and Emission Standards

Both models used in this analysis include the effects of all currently adopted regulatory programs for light duty vehicles and light duty trucks, as follows:

### Light Duty Vehicles

- National LEV program starting in 2001
- Onboard vapor recovery requirements for all gasoline cars, trucks, and SUVs
- Onboard diagnostic requirements for all vehicles
- Tier 2 exhaust emission standards
- Tier 2 evaporative emission standards

Technologies which are being used to meet the Tier 2 exhaust emission standards are closer air/fuel ratio control, increased precious metal loadings on catalysts, closer-coupled catalysts, reduced cold-start emissions, and dual oxygen sensors. Technologies being used to meet the Tier 2 evaporative standards are larger and redesigned charcoal canisters, very low permeation hoses and fuel tanks, and other technologies designed to reduce vapor generation from the fuel tanks and lines during engine operation.

### Heavy-Duty Vehicles

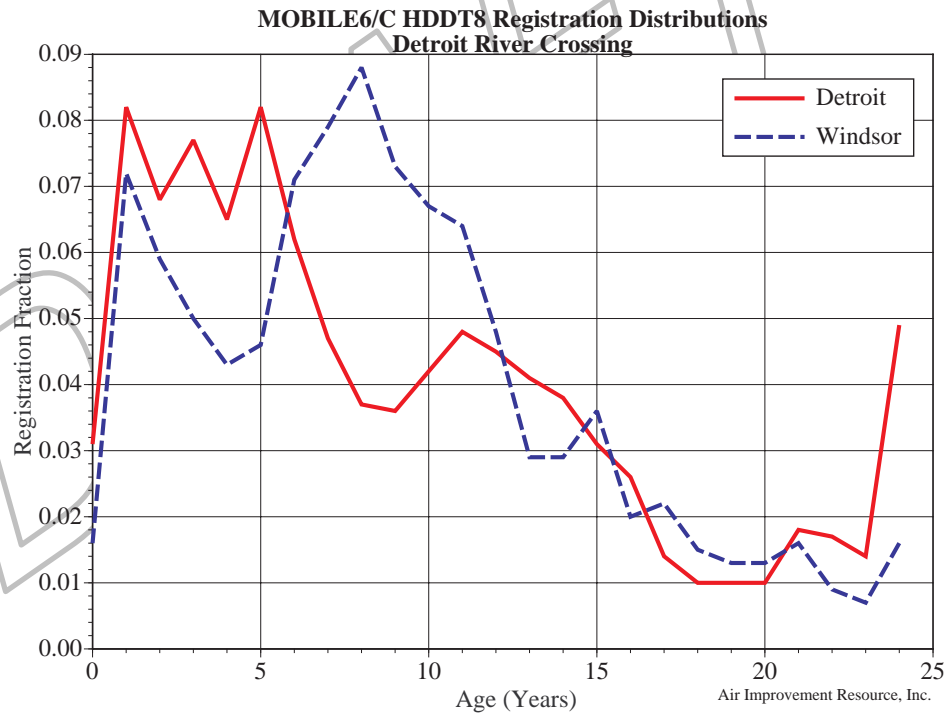
- 2004 HC+NO<sub>x</sub> standards
- 2007-2010 HC, NO<sub>x</sub> and PM standards
- 2010 NO<sub>x</sub> standards

The 2007-2010 heavy-duty standards assume the use of catalyzed PM traps to meet the 0.01 g/bhp-hr PM standard, and either engine controls like aggressive EGR, or after treatment (or both) needed to obtain a 50% NO<sub>x</sub> reduction. The 2010 heavy-duty NO<sub>x</sub> standards are a 90% reduction from 2006 NO<sub>x</sub>, and currently it is thought that this can only be met with after treatment and aggressive EGR. Currently the after treatment choices to meet the 2010 NO<sub>x</sub> standard of 0.2 g/bhp-hr is either selective catalytic reduction (SCR), or a NO<sub>x</sub> adsorber.

EPA is planning to propose a mobile source toxics rule to apply to future light duty gasoline vehicles and trucks. That rule will probably reduce toxics from motor vehicles further, but the rule is not reflected in these emission rates because it has not been either proposed or adopted.

### Heavy-Duty Fleet Turnover Comparison

The figure below shows a comparison of registration fractions versus age for both Detroit and Windsor. The Detroit fleet appears to be somewhat newer with the highest registration fractions in the 1-5 year old age group, but there also is a significantly higher fraction in the 25+ year old category for Detroit. Windsor appears to have a somewhat older fleet on average, in that the highest registrations fractions are for vehicles that are 6-9 years of age.



### Results

All results are shown in spreadsheet format in two different files, "Detroit.xls", and "Windsor.xls".

## REFERENCES

*"Idle Emission Rates for Diesel Trucks"*, Memo from Tom Darlington at AIR to Dan Hrebenyk at SENES, November 9, 2005.

Natural Resources Canada

Alliance of Automobile Manufacturers Fuel Survey for Detroit for 2003.

DRAFT

## MEMORANDUM

Dan Hrebenyk, SENES

Tom Darlington

November 9, 2005

Idle Emission Rates for Diesel Trucks

---



This memo develops heavy duty diesel emission idle and "creep" emission rates for use in Vancouver.

### Method

We are unsure of the duty cycle of heavy-duty trucks which are waiting in line at them loading terminal. Therefore, we have developed two sets of emissions rates – one is an idle emission rate, if the duty cycle is almost all idle, and the second estimate is based on a "creep" cycle, which was developed by the California Air Resources Board and West Virginia University.

The idle emission rates we recommend using in Vancouver come from a recent ARB staff report on requirements to reduce idling emissions from new and in-use trucks. The report lists idle emissions by model year for heavy-duty diesel trucks that are weighted by the fraction of time spent at low idle and high idle. The emission rates are also weighted by summer and winter fractions.

We obtained the separate winter and summer idle emission rates, at both low and high idle. For Vancouver, we have developed separate summer and winter emission rates, but we have used the ARB low and high idle fractions in each season. Idle emission rates were developed for three years: 2003, 2011, and 2020. Idle emission rates were developed for NO<sub>x</sub>, PM<sub>10</sub>, VOC, CO, and CO<sub>2</sub>.

The emission rates based on the creep cycle have been developed from raw data obtained from the Coordinating Research Council's E55/57 testing program (the idle emission rates also ultimately come from this testing program). The creep cycle is a very low average speed cycle, where speed is varied between 0 and 8 mph and 0 and 3 mph, with an idle period in between.

**Air Improvement Resource, Inc.**  
47298 Sunnybrook Lane  
Suite 103  
Novi, Michigan 48374 USA  
248-380-3140  
248-380-3146 fax  
[www.airimprovement.com](http://www.airimprovement.com)

ARB's Idle Emission Rates

In the recent idle emissions staff report, ARB lists the idle emissions for heavy-duty diesel trucks in g/hr. [1] These emission rates are shown in Table B.1.

Calendar Year	Model Year	NO <sub>x</sub>	ROG	PM	CO <sub>2</sub>
2010	Pre-1991	39.8	20.2	5.3	6228
	1991-2006	115.3	9.4	1.9	6228
	2007+	115.3	8.3	0.16	6228
2020	Pre-1991	39.8	20.1	5.2	6228
	1991-2006	115.3	8.9	1.8	6228
	2007+	115.3	8.3	0.16	6228

The above emission factors were developed by the ARB from recent tests conducted by West Virginia University as a part of the Coordinating Research Councils' E55/E57 testing program. [2] The above numbers include typical accessory loads for both summer and winter (summer is weighted 7/12 and winter is weighted 5/12), and also include both low and high idle operation. The low/high idle weighting factors are 61% low idle, 39% high idle.

The PM emission rates are much lower for 2007 and later trucks, due to fact that 2007 and later trucks are subject to much lower PM standards (0.01 g/bhp-hr). While the NO<sub>x</sub> standards are also lower in 2007 and 2010 (1.2 g/bhp-hr and 0.2 g/bhp-hr, respectively), ARB does not expect this technology to reduce idle NO<sub>x</sub> emissions, because idle temperatures are much lower than when the engine is under load, and the expected NO<sub>x</sub> emission control technology is expected to be less efficient at lower temperatures than at high temperatures. [1]

Idle Emissions for Vancouver

Since the climate is much different in Vancouver than in California, we recommend the use of separate winter and summer emission rates in Vancouver. The emission rates still need to utilize the ARB fractions of high and low idle operation.

We obtained the separate summer and winter high and low idle emission rates and high idle correction factors from the ARB, and these are shown in Attachments 1 and 2. We then weighted the low idle baseline with the summer high idle and winter high idle emission rates. The results are shown in Tables B.2 and B.3.

Model Year	PM	NOx	CO	HC	CO2
2007+	0.13	119.0	33.7	7.8	6594
2004-2006	1.35	119.0	33.7	7.8	6594
1998-2003	1.35	119.0	33.7	7.8	6594
1994-1997	1.80	119.0	37.4	9.7	6594
1991-1993	2.38	119.0	41.6	12.0	6594
1990	3.17	119.0	46.2	14.9	6594
1987-1989	3.17	41.1	46.2	14.9	6594
1984-1986	4.21	41.1	51.2	18.5	6594
1980-1983	5.60	41.1	56.9	22.9	6594
1977-1979	7.42	41.1	63.2	28.4	6594
1975-1976	9.08	41.1	68.1	33.0	6594
Pre-1975	10.68	41.1	72.3	37.4	6594

Model Year	PM	NOx	CO	HC	CO2
2007+	0.19	110.2	63.9	9.0	5714
2004-2006	1.95	110.2	63.9	9.0	5714
1998-2003	1.95	110.2	63.9	9.0	5714
1994-1997	2.59	110.2	70.9	11.1	5714
1991-1993	3.44	110.2	78.8	13.8	5714
1990	4.58	110.2	87.5	17.1	5714
1987-1989	4.58	38.0	87.5	17.1	5714
1984-1986	6.07	38.0	97.2	21.2	5714
1980-1983	8.08	38.0	107.9	26.3	5714
1977-1979	10.72	38.0	119.8	32.5	5714
1975-1976	13.11	38.0	129.1	37.9	5714
Pre-1975	15.42	38.0	137.1	42.8	5714

As shown in Table B.2 and B.3, the winter PM, CO, and HC emission rates are higher than the summer emission rates, and the NO<sub>x</sub> and CO<sub>2</sub> emission rates are lower.

Heavy-duty truck registration distributions were obtained for British Columbia from modeling we have done for Environment Canada. The registration distributions are shown in Attachment 3. These registration distributions were used with the idle emission rates in Table B.2 and B.3 to develop fleet idle emission rates for three years: 2003, 2011, and 2020. The final fleet idle emission rates for summer and winter for 2003, 2011 and 2020 are shown in Table B.4.

Year	Season	PM	NO <sub>x</sub>	CO	HC	CO <sub>2</sub>
2003	Summer	2.26	110	39.4	11.3	6594
	Winter	3.26	102	74.7	12.9	5714
2011	Summer	1.26	111	36.1	9.2	6594
	Winter	1.82	110	68.5	10.5	5714
2020	Summer	0.52	119	34.0	8.0	6594
	Winter	0.75	110	64.5	9.2	5714

“Creep” Emission Rates

The CRC testing referenced earlier also included a “Creep” cycle. This cycle was 0.13 miles long, with an average speed of 1.6 mph. The driving cycle is shown in Attachment 4. The cycle is intended to develop emissions for situations in which trucks wait in lines for long periods of time with idle and very slow speed operation, like at borders and toll collections, etc. Trucks were tested with normal accessory loads (compressor fan and alternator, but not a/c or heater).

AIR estimated average creep emissions in g/mi for pre-1991 and 1991 and later trucks, as shown in Table B.5. These were estimated in both g/mi (first two columns), and in g/hr (second two columns).

Pollutant	g/mi		g/hr	
	Pre-1991	1991+	Pre-1991	1991+
NO <sub>x</sub>	38.6	71.7	62.7	116.1
HC	15.5	9.2	25.1	14.9
PM	7.2	3.5	11.7	5.7
CO	30.9	20.2	50.0	32.7

For NO<sub>x</sub>, the g/hr emission rates in Table 5 are similar to the NO<sub>x</sub> and CO emission rates in Table B.4. However the creep cycle HC and PM rates appear to be higher than the rates in Table B.4. This is due to the acceleration periods from idle in this cycle (see Attachment 4). Starting in model year 2007, however, PM emission rates must be reduced by 90%. Therefore, we propose the use of a 0.57 g/hr emission rate for 2007 and later heavy-duty



trucks. While NO<sub>x</sub> emissions may also be reduced because of lower NO<sub>x</sub> standards, for this analysis we will assume they remain the same as 1991+ creep emission rates. We also propose the use of a 12% reduction in VOC emissions, similar to the ARB in Table B.1 (13.1 g/hr).

Using estimates of HDDV VMT fractions in Attachment 3, the 2003, 2011 and 2020 fleet "creep" emissions are shown in Table B.6.

Year	PM	NO <sub>x</sub>	CO	HC
2003	6.94	105	36	17
2011	5.04	116	36	16
2020	2.19	116	33	14

The HC and PM emission rates in Table B.6 are somewhat higher than those in Table B.5. These may be the most realistic emission rates to use for Vancouver, if the duty cycle includes idle punctuated by slow movement.

#### SO<sub>2</sub> Emission Rates

SO<sub>2</sub> emission rates can be estimated from the very low speed fuel consumption estimates from the creep cycle data (fuel consumption is not available from the idle emission tests). Idle SO<sub>2</sub> emission rates in g/hr can be estimated with the following expression:

$$SO_2 \text{ (g/hr)} = (\text{cycle miles/mpg}) * 4.44 \text{ L/gal} * 850 \text{ g/L} * \text{Sulphur ppm} * (64/32)/(\text{hr} * 10^6)$$

Where:

Cycle miles = 0.13 miles

Mpg = average of 2.32 mpg

850 = typical density of diesel fuel

sulphur ppm = 365 ppm in 2003, 15 ppm in other years

64/32 = molecular weight ratio of SO<sub>2</sub> to S

hr = cycle time in hours, or 0.08 hrs

Using the above expression, the SO<sub>2</sub> emission rates in g/hr are shown in Table B.7 below.

<b>Table B.7 - SO<sub>2</sub> Emission Rates (g/hr)</b>		
Year	Sulphur in Diesel fuel (ppm)	SO <sub>2</sub> Emission Rate (g/hr)
2003	365	1.93
2011	15	0.08
2020	15	0.08

EPA Guidance on PM and NO<sub>x</sub>

Finally, we note EPA's 2002 guidance recommends a NO<sub>x</sub> emission rate of 135 g/hr, and a PM emission rates that vary by model year from 3.68 g/hr for 2006 and earlier vehicles down to 0.33 g/hr for 2029 vehicles. [3] EPA does not provide CO, HC, or SO<sub>2</sub> emission rates. EPA developed these emission rates from a variety of sources including the CRC data, but the guidance does not explain how EPA arrived at these emission rates.

Uncertainties

The major uncertainty with the above emission rates is ARB's assumption that the NO<sub>x</sub> idle emission rates will not be lower in with lower NO<sub>x</sub> standards in the 2007 and later model years. The ARB is proposing to adopt controls that would either (1) require new engines to shut-off after a period of time, or (2) emit at below 30 g/hr. If these controls are adopted by the ARB, they could also be adopted by the EPA. If they are adopted by the EPA, it is likely that Environment Canada will implement a memorandum of understanding to require the controls in Canada as well. But even if none of this happens, it is likely that the 2007-2010 NO<sub>x</sub> emission reduction strategies will have some effect at reducing idle emissions from 2007 and later trucks. Thus, the idle NO<sub>x</sub> emission rates for 2020 in Table B.4 are probably quite high.

Another uncertainty is whether the idle emission rates properly represent the duty cycle at the terminal. The creep emission rates indicate that the NO<sub>x</sub> emissions are probably appropriate, but if the duty cycle is more like the creep cycle than the idle cycle, then PM and HC emission rate will be somewhat higher.

## REFERENCES

*"Staff Report: Initial Statement of reasons, Notice of Public Hearing to Consider Requirements to Reduce Idling Emissions from New and In-Use Trucks, Beginning in 2008"*, September 1, 2005, California EPA, Air Resources Board.

*"Heavy-Duty Vehicle Chassis Dynamometer Testing for Emission Inventory"*, CRC Project No. E-55/59, <http://crcao.com>

*"Guidance for Quantifying and Using Long Duration Truck Idling Emission Reductions in State Implementation Plans and Transportation Conformity"*, EPA420-B-04-001, January 2004.

DRAFT

**Attachment 1**

Low Idle and High Idle Emission Rates

<b>LOW IDLE</b>	PM	NOx	CO	HC	CO2
<b>BASELINE</b>					
2007+	0.09	83.73	18.40	6.12	4366
2004-2006	0.85	83.73	18.40	6.12	4366
1998-2003	0.85	83.73	18.40	6.12	4366
1994-1997	1.13	83.73	20.44	7.59	4366
1991-1993	1.50	83.73	22.70	9.39	4366
1990	2.00	83.73	25.21	11.65	4366
1987-1989	2.00	28.91	25.21	11.65	4366
1984-1986	2.65	28.91	28.00	14.42	4366
1980-1983	3.53	28.91	31.10	17.89	4366
1977-1979	4.68	28.91	34.53	22.14	4366
1975-1976	5.72	28.91	37.21	25.79	4366
Pre-1975	6.73	28.91	39.51	29.15	4366

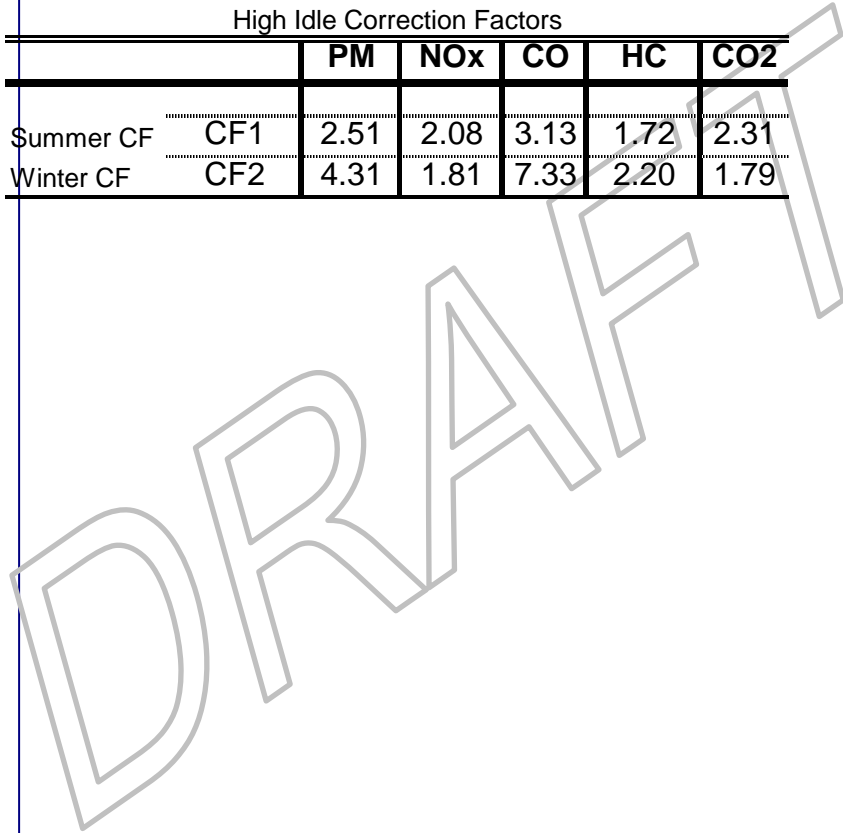
<b>High Idle Summer</b>	PM	NOx	CO	HC	CO2
2007+	0.213	174	57.6	10.5	10081
2004-2006	2.131	174	57.6	10.5	10081
1998-2003	2.131	174	57.6	10.5	10081
1994-1997	2.837	174	64.0	13.1	10081
1991-1993	3.761	174	71.0	16.2	10081
1990	5.007	174	78.9	20.1	10081
1987-1989	5.007	60	78.9	20.1	10081
1984-1986	6.639	60	87.6	24.8	10081
1980-1983	8.838	60	97.3	30.8	10081
1977-1979	11.719	60	108.1	38.1	10081
1975-1976	14.336	60	116.5	44.4	10081
Pre-1975	16.863	60	123.6	50.2	10081

<b>High Idle Winter</b>	PM	NOx	CO	HC	CO2
2007+	0.367	151.5	135.0	13.5	7823
2004-2006	3.666	151.5	135.0	13.5	7823
1998-2003	3.666	151.5	135.0	13.5	7823
1994-1997	4.880	151.5	149.9	16.7	7823
1991-1993	6.471	151.5	166.5	20.7	7823
1990	8.613	151.5	184.9	25.6	7823
1987-1989	8.613	52.3	184.9	25.6	7823
1984-1986	11.421	52.3	205.3	31.7	7823
1980-1983	15.203	52.3	228.1	39.4	7823
1977-1979	20.159	52.3	253.2	48.7	7823
1975-1976	24.661	52.3	272.9	56.7	7823
Pre-1975	29.008	52.3	289.7	64.1	7823

Attachment 2  
Idle Correction Factors

High Idle Correction Factors

		PM	NOx	CO	HC	CO2
Summer CF	CF1	2.51	2.08	3.13	1.72	2.31
Winter CF	CF2	4.31	1.81	7.33	2.20	1.79



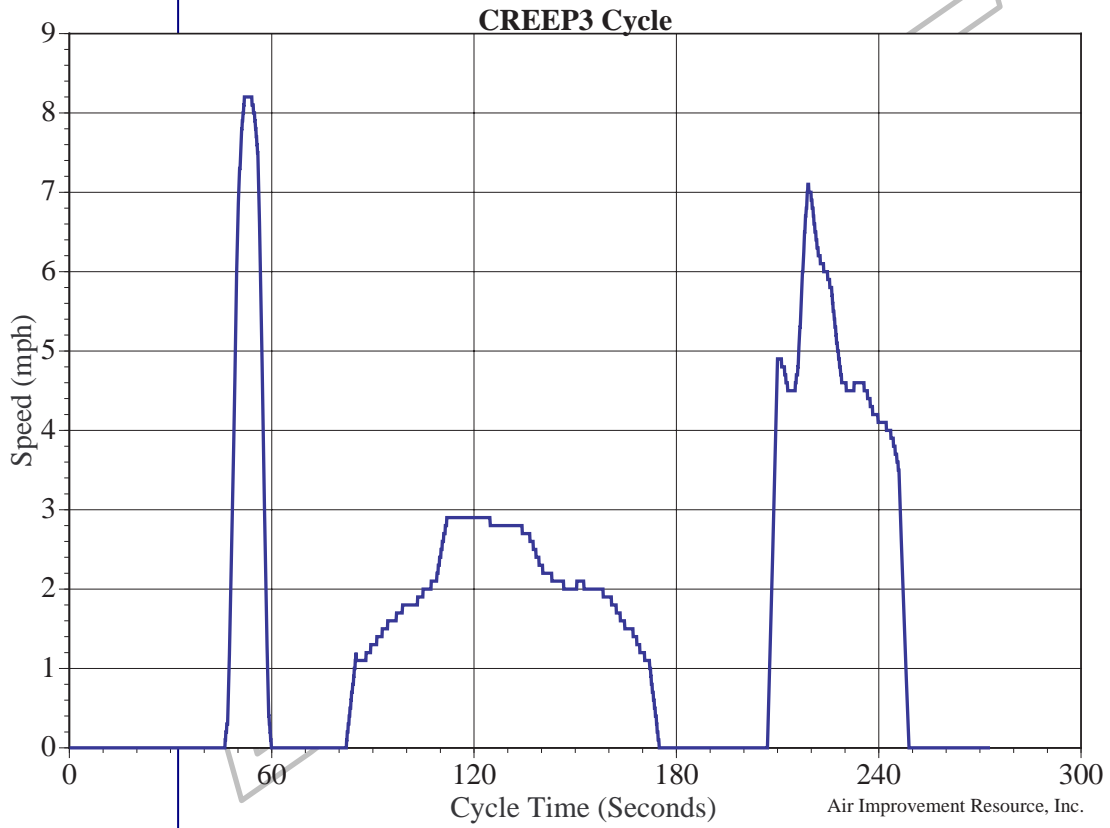
Attachment 3

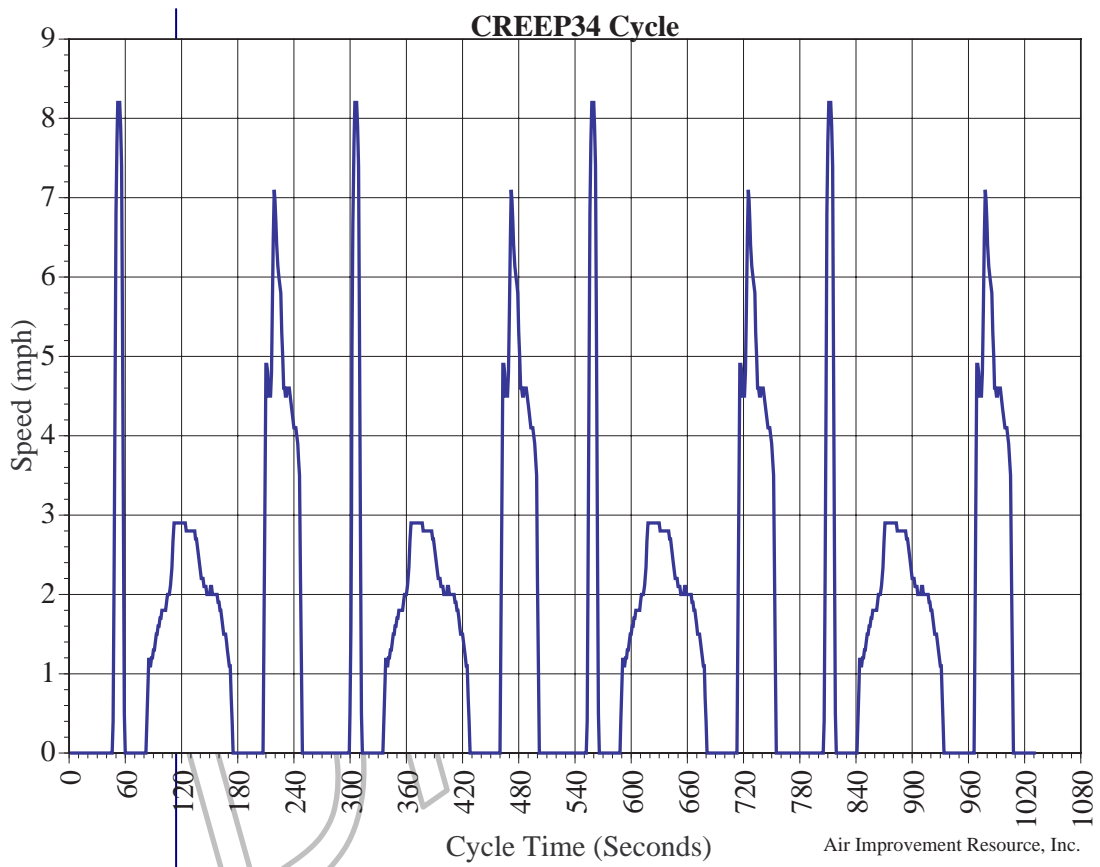
British Columbia HDDT Registration Distributions

Age	Calendar Year 2000 (used for 2003)	Calendar Year 2010 (used for 2011)	Calendar Year 2020 (used for 2020)
1	0.079	0.0816	0.0835
2	0.086	0.0733	0.075
3	0.086	0.0685	0.0701
4	0.065	0.0641	0.0655
5	0.055	0.0599	0.0612
6	0.074	0.052	0.0515
7	0.066	0.0486	0.0482
8	0.044	0.0455	0.045
9	0.040	0.0426	0.0422
10	0.039	0.0397	0.0394
11	0.062	0.0372	0.0368
12	0.050	0.0348	0.0344
13	0.047	0.0325	0.0322
14	0.034	0.0305	0.0301
15	0.029	0.0284	0.0281
16	0.022	0.0267	0.0263
17	0.013	0.0249	0.0245
18	0.004	0.0233	0.023
19	0.008	0.0218	0.0215
20	0.018	0.0204	0.0201
21	0.017	0.0191	0.0188
22	0.013	0.0179	0.0176
23	0.007	0.0166	0.0164
24	0.009	0.0156	0.0154
25	0.034	0.0745	0.0734

\* Only the 1997-2020 year data were used in this analysis for 2003, 2011, and 2020.

**Attachment 4**  
CREEP Cycle Used in CRC E55/E57  
(the second cycle is the same as the first, but has 4 repeats)







Appendix C:  
Sample Calculations

DRAFT

### SAMPLE CALCULATIONS

#### PM<sub>2.5</sub> EMISSIONS

Emissions of particulate (TSP, PM<sub>10</sub>, and PM<sub>2.5</sub>) from vehicle travel on roadways results both from tailpipe emissions and recirculation of road dust.

#### 1. Tailpipe Emissions

Tailpipe emissions from vehicle travel were calculated by applying a fleet averaged emission factor from the Mobile 6C Emissions model for each horizon year. For the public roads, traffic data on AADT levels was supplied by IBI Group. The emission factors output from Mobile 6C have been included below in the following tables. As indicates in the tables, the emission factors are dependent upon vehicle type, country of origin (of vehicle), vehicle speed and analysis year. The PM<sub>2.5</sub> and NO<sub>x</sub> emission factors have been highlighted, as they are the two contaminants that have been assessed at this point in time. All contaminants will be included in the final analysis.

As both cars and trucks travel on the same roadways, an average fleet tailpipe emission factor must be calculated.

$$(a) \text{VKT}_{\text{Total}} = \text{VKT}_{\text{CDN\_car}} + \text{VKT}_{\text{CDN\_truck}} + \text{VKT}_{\text{US\_car}} + \text{VKT}_{\text{US\_Truck}}$$

$$(b) \text{Fleet Average EF}_{(g/\text{VKT})} =$$

$$EF_{\text{CDN\_car}} * \frac{\text{VKT}_{\text{CDN\_car}}}{\text{VKT}_{\text{Total}}} + EF_{\text{CDN\_truck}} \frac{\text{VKT}_{\text{CDN\_truck}}}{\text{VKT}_{\text{car}}} + EF_{\text{US\_car}} \frac{\text{VKT}_{\text{US\_car}}}{\text{VKT}_{\text{Total}}} + EF_{\text{US\_truck}} \frac{\text{VKT}_{\text{US\_truck}}}{\text{VKT}_{\text{Total}}}$$

**Table 1a - 2015 Canadian Car Tailpipe Emissions (g/VKT)**

Speed (km/h)	PM	PM <sub>10</sub>	PM <sub>2.5</sub>	NOx	SOx	CO	CO <sub>2</sub>	VOC	Bn	Ac	Fm	Bu	Acr
Idle	0.0161	0.0161	0.0086	1.32	0.0108	29.3	1398.5	2.70	0.0532	0.0084	0.0196	0.0058	0.0014
25	0.0040	0.0040	0.0021	0.44	0.0047	6.4	347.6	0.38	0.0108	0.0020	0.0047	0.0012	0.0003
50	0.0040	0.0040	0.0021	0.40	0.0047	5.9	347.6	0.28	0.0087	0.0014	0.0033	0.0010	0.0002
75	0.0040	0.0040	0.0021	0.49	0.0047	6.6	347.6	0.27	0.0085	0.0013	0.0031	0.0009	0.0002
100	0.0040	0.0040	0.0021	0.49	0.0047	6.6	347.6	0.27	0.0085	0.0013	0.0031	0.0009	0.0002

Bn = Benzene, Ac = Acetaldehyde, Fm = Formaldehyde, Bu = 1,3 Butadiene, Acr = Acrolein

**Table 1b - 2015 Canadian Truck Tailpipe Emissions (g/VKT)**

Speed (km/h)	PM	PM <sub>10</sub>	PM <sub>2.5</sub>	NOx	SOx	CO	CO <sub>2</sub>	VOC	Bn	Ac	Fm	Bu	Acr
Idle	1.1015	1.1015	1.07	113.68	0.08	52.50	6228	1.02	0.0113	0.0309	0.0838	0.0065	0.0050
25	0.0191	0.0191	0.01	2.35	0.007	0.96	960	0.33	0.0036	0.0099	0.0268	0.0021	0.0016
50	0.0191	0.0191	0.01	2.02	0.007	0.49	960	0.19	0.0020	0.0056	0.0152	0.0012	0.0009
75	0.0191	0.0191	0.01	2.91	0.007	0.51	960	0.16	0.0018	0.0048	0.0131	0.0010	0.0008
100	0.0191	0.0191	0.01	2.91	0.007	0.51	960	0.16	0.0018	0.0048	0.0131	0.0010	0.0008

Bn = Benzene, Ac = Acetaldehyde, Fm = Formaldehyde, Bu = 1,3 Butadiene, Acr = Acrolein

**Table 1c - 2015 American Car Tailpipe Emissions (g/VKT)**

Speed (km/h)	PM	PM <sub>10</sub>	PM <sub>2.5</sub>	NOx	SOx	CO	CO <sub>2</sub>	VOC	Bn	Ac	Fm	Bu	Acr
Idle	0.0158	0.0158	0.0086	1.20	0.0123	25.0	1405	2.34	0.0577	0.0080	0.0174	0.0050	0.0012
25	0.0039	0.0039	0.0021	0.40	0.0055	5.5	349	0.33	0.0118	0.0019	0.0043	0.0011	0.0003
50	0.0039	0.0039	0.0021	0.36	0.0056	5.1	349	0.25	0.0096	0.0013	0.0029	0.0008	0.0002
75	0.0039	0.0039	0.0021	0.44	0.0056	5.7	349	0.24	0.0094	0.0013	0.0028	0.0008	0.0002
100	0.0039	0.0039	0.0021	0.44	0.0056	5.7	349	0.24	0.0094	0.0013	0.0028	0.0008	0.0002

Bn = Benzene, Ac = Acetaldehyde, Fm = Formaldehyde, Bu = 1,3 Butadiene, Acr = Acrolein

**Table 1d - 2015 American Truck Tailpipe Emissions (g/VKT)**

Speed (km/h)	PM	PM <sub>10</sub>	PM <sub>2.5</sub>	NOx	SOx	CO	CO <sub>2</sub>	VOC	Bn	Ac	Fm	Bu	Acr
Idle	1.1901	1.1901	1.1543	111.9	0.0800	53.60	6228	1.00	0.0111	0.0303	0.0822	0.0064	0.0049
25	0.0181	0.0181	0.0119	1.9	0.0066	0.83	960	0.32	0.0035	0.0097	0.0263	0.0021	0.0016
50	0.0181	0.0181	0.0119	1.7	0.0066	0.43	960	0.18	0.0020	0.0055	0.0149	0.0012	0.0009
75	0.0181	0.0181	0.0119	2.4	0.0066	0.44	960	0.16	0.0017	0.0047	0.0128	0.0010	0.0008
100	0.0181	0.0181	0.0119	2.4	0.0066	0.44	960	0.16	0.0017	0.0047	0.0128	0.0010	0.0008

Bn = Benzene, Ac = Acetaldehyde, Fm = Formaldehyde, Bu = 1,3 Butadiene, Acr = Acrolein

**Table 2a - 2025 Canadian Car Tailpipe Emissions (g/VKT)**

Speed (km/h)	PM	PM <sub>10</sub>	PM <sub>2.5</sub>	NOx	SOx	CO	CO <sub>2</sub>	VOC	Bn	Ac	Fm	Bu	Acr
Idle	0.0141	0.0141	0.0066	0.63	0.0108	26.56	1411	2.26	0.0433	0.0069	0.0159	0.0048	0.0011
25	0.0035	0.0035	0.0016	0.20	0.0048	5.77	351	0.31	0.0087	0.0016	0.0038	0.0010	0.0003
50	0.0035	0.0035	0.0016	0.18	0.0048	5.34	351	0.23	0.0071	0.0012	0.0027	0.0008	0.0002
75	0.0035	0.0035	0.0016	0.21	0.0048	6.00	351	0.21	0.0070	0.0011	0.0025	0.0008	0.0002
100	0.0035	0.0035	0.0016	0.21	0.0048	6.00	351	0.21	0.0070	0.0011	0.0025	0.0008	0.0002

Bn = Benzene, Ac = Acetaldehyde, Fm = Formaldehyde, Bu = 1,3 Butadiene, Acr = Acrolein

**Table 2b - 2025 Canadian Truck Tailpipe Emissions (g/VKT)**

Speed (km/h)	PM	PM <sub>10</sub>	PM <sub>2.5</sub>	NOx	SOx	CO	CO <sub>2</sub>	VOC	Bn	Ac	Fm	Bu	Acr
Idle	0.0476	0.0476	0.3140	115.42	0.0800	51.30	6228	0.8575	0.0094	0.0259	0.0702	0.0055	0.0042
25	0.0118	0.0118	0.0062	0.46	0.0071	0.31	960	0.2740	0.0030	0.0083	0.0225	0.0018	0.0013
50	0.0118	0.0118	0.0062	0.39	0.0071	0.16	960	0.1553	0.0017	0.0047	0.0128	0.0010	0.0008
75	0.0118	0.0118	0.0062	0.57	0.0071	0.16	960	0.1336	0.0015	0.0040	0.0110	0.0009	0.0007
100	0.0118	0.0118	0.0062	0.57	0.0071	0.16	960	0.1336	0.0015	0.0040	0.0110	0.0009	0.0007

Bn = Benzene, Ac = Acetaldehyde, Fm = Formaldehyde, Bu = 1,3 Butadiene, Acr = Acrolein

**Table 2c - 2025 American Car Tailpipe Emissions (g/VKT)**

Speed (km/h)	PM	PM <sub>10</sub>	PM <sub>2.5</sub>	NOx	SOx	CO	CO <sub>2</sub>	VOC	Bn	Ac	Fm	Bu	Acr
Idle	0.0141	0.0141	0.0067	0.59	0.0123	22.0	1417	1.88	0.0454	0.0064	0.0141	0.0040	0.0010
25	0.0035	0.0035	0.0016	0.19	0.0056	4.8	352	0.26	0.0092	0.0015	0.0035	0.0009	0.0002
50	0.0035	0.0035	0.0016	0.17	0.0057	4.5	352	0.19	0.0076	0.0011	0.0024	0.0007	0.0002
75	0.0035	0.0035	0.0016	0.20	0.0057	5.0	352	0.18	0.0075	0.0010	0.0022	0.0007	0.0002
100	0.0035	0.0035	0.0016	0.20	0.0057	5.0	352	0.18	0.0075	0.0010	0.0022	0.0007	0.0002

Bn = Benzene, Ac = Acetaldehyde, Fm = Formaldehyde, Bu = 1,3 Butadiene, Acr = Acrolein

**Table 2d - 2025 American Truck Tailpipe Emissions (g/VKT)**

Speed (km/h)	PM	PM <sub>10</sub>	PM <sub>2.5</sub>	NOx	SOx	CO	CO <sub>2</sub>	VOC	Bn	Ac	Fm	Bu	Acr
Idle	0.0483	0.0483	0.4342	115.65	0.0800	51.50	6228	0.86	0.0095	0.0261	0.0708	0.0055	0.0042
25	0.0120	0.0120	0.0063	0.50	0.0066	0.32	960	0.28	0.0030	0.0083	0.0226	0.0018	0.0014
50	0.0120	0.0120	0.0063	0.43	0.0066	0.16	960	0.16	0.0017	0.0047	0.0128	0.0010	0.0008
75	0.0120	0.0120	0.0063	0.63	0.0066	0.17	960	0.13	0.0015	0.0041	0.0111	0.0009	0.0007
100	0.0120	0.0120	0.0063	0.63	0.0066	0.17	960	0.13	0.0015	0.0041	0.0111	0.0009	0.0007

Bn = Benzene, Ac = Acetaldehyde, Fm = Formaldehyde, Bu = 1,3 Butadiene, Acr = Acrolein

**Table 3a - 2035 Canadian Car Tailpipe Emissions (g/VKT)**

Speed (km/h)	PM	PM <sub>10</sub>	PM <sub>2.5</sub>	NOx	SOx	CO	CO <sub>2</sub>	VOC	Bn	Ac	Fm	Bu	Acr
Idle	0.0139	0.0139	0.0065	0.58	0.0108	26.4	1411	2.24	0.0425	0.0068	0.0156	0.0047	0.0011
25	0.0034	0.0034	0.0016	0.18	0.0048	5.7	351	0.30	0.0086	0.0016	0.0038	0.0010	0.0003
50	0.0034	0.0034	0.0016	0.17	0.0048	5.3	351	0.22	0.0070	0.0011	0.0026	0.0008	0.0002
75	0.0034	0.0034	0.0016	0.19	0.0048	6.0	351	0.21	0.0069	0.0011	0.0025	0.0007	0.0002
100	0.0034	0.0034	0.0016	0.19	0.0048	6.0	351	0.21	0.0069	0.0011	0.0025	0.0007	0.0002

n = Formaldehyde, Bu = 1,3 Butadiene, Acr = Acrolein

**Table 3b - 2035 Canadian Truck Tailpipe Emissions (g/VKT)**

Speed (km/h)	PM	PM <sub>10</sub>	PM <sub>2.5</sub>	NOx	SOx	CO	CO <sub>2</sub>	VOC	Bn	Ac	Fm	Bu	Acr
Idle	0.0458	0.0458	0.1554	115.42	0.0800	51.30	6228	0.85	0.0093	0.0255	0.0693	0.0054	0.0041
25	0.0114	0.0114	0.0058	0.34	0.0071	0.26	960	0.27	0.0030	0.0082	0.0222	0.0017	0.0013
50	0.0114	0.0114	0.0058	0.29	0.0071	0.13	960	0.15	0.0017	0.0046	0.0126	0.0010	0.0008
75	0.0114	0.0114	0.0058	0.43	0.0071	0.14	960	0.13	0.0015	0.0040	0.0108	0.0008	0.0006
100	0.0114	0.0114	0.0058	0.43	0.0071	0.14	960	0.13	0.0015	0.0040	0.0108	0.0008	0.0006

n = Formaldehyde, Bu = 1,3 Butadiene, Acr = Acrolein

**Table 3c - 2035 American Car Tailpipe Emissions (g/VKT)**

Speed (km/h)	PM	PM <sub>10</sub>	PM <sub>2.5</sub>	NOx	SOx	CO	CO <sub>2</sub>	VOC	Bn	Ac	Fm	Bu	Acr
Idle	0.0139	0.0139	0.0065	0.52	0.0123	21.8	1417	1.85	0.0443	0.0062	0.0136	0.0039	0.0009
25	0.0034	0.0034	0.0016	0.16	0.0056	4.8	352	0.25	0.0090	0.0015	0.0034	0.0008	0.0002
50	0.0034	0.0034	0.0016	0.15	0.0057	4.4	352	0.19	0.0074	0.0011	0.0023	0.0006	0.0002
75	0.0034	0.0034	0.0016	0.17	0.0057	4.9	352	0.18	0.0073	0.0010	0.0022	0.0006	0.0001
100	0.0034	0.0034	0.0016	0.17	0.0057	4.9	352	0.18	0.0073	0.0010	0.0022	0.0006	0.0001

n = Formaldehyde, Bu = 1,3 Butadiene, Acr = Acrolein

**Table 3d - 2035 American Truck Tailpipe Emissions (g/VKT)**

Speed (km/h)	PM	PM <sub>10</sub>	PM <sub>2.5</sub>	NOx	SOx	CO	CO <sub>2</sub>	VOC	Bn	Ac	Fm	Bu	Acr
Idle	0.0458	0.0458	0.1557	115.65	0.0800	51.50	6228	0.85	0.0093	0.0255	0.0693	0.0054	0.0041
25	0.0114	0.0114	0.0058	0.34	0.0066	0.26	960	0.27	0.0030	0.0082	0.0222	0.0017	0.0013
50	0.0114	0.0114	0.0058	0.29	0.0066	0.13	960	0.15	0.0017	0.0046	0.0126	0.0010	0.0008
75	0.0114	0.0114	0.0058	0.43	0.0066	0.14	960	0.13	0.0015	0.0040	0.0108	0.0008	0.0006
100	0.0114	0.0114	0.0058	0.43	0.0066	0.14	960	0.13	0.0015	0.0040	0.0108	0.0008	0.0006

n = Formaldehyde, Bu = 1,3 Butadiene, Acr = Acrolein

**2. Road Dust Emissions**

Emissions of road dust (TSP, PM<sub>10</sub>, and PM<sub>2.5</sub>) resulting from vehicular travel on paved roads were estimated using the empirical expression (*Equation 7*) and parameters (*Tables 13.2.1-1 and 13.2.1-2*) provided in *Section 13.2.1: Paved Roads* of the U.S. EPA AP-42 document.

$$EF_{(g/VKT)} = k * \left(\frac{sL}{2}\right)^{0.65} * \left(\frac{W}{3}\right)^{1.5} - C$$

where,

- EF = particle emission factor (having units matching the units of k)
- k = particle size multiplier (see Table 1)
- sL = road surface silt content (g/m<sup>2</sup>) (see Table 5)
- W = average weight (tons) of the vehicles traveling the road
- C = emission factor for 1980's vehicle fleet exhaust, brake wear and tire wear (see Table 1)
- VKT = vehicle kilometers travelled

**Table 4 – Paved Road Parameters**

Constant	TSP	PM <sub>10</sub>	PM <sub>2.5</sub>
k (g/VKT)	24	4.6	0.66
C (g/VKT)	0.1317	0.1317	0.1005

**Table 5 – Silt Loading Default Values**

Constant	Average Travel (No. of Vehicles)		
	<500	5,000-10,000	>10000
sL	0.6	0.06	0.03

**Silt Loading**

Silt loading factors for high numbers of vehicles can result in a decrease in contribution from road dust on a road way to negligible quantities. As a conservative measure, SENES chose the silt loading factor of 0.6 to allow for quantities of road dust from traffic conditions.

**Estimating the W**

(a) To calculate W, the car and truck contributions to the total VKT must first be determined.

$$VKT_{Total} = VKT_{car} + VKT_{truck}$$

- (b) the weight of each type of vehicle must be determined  
 Average weight of car=3.5 tons  
 Average weight of truck =20 tons

- (c) the average weight (tons) of the vehicles traveling the road can be determined:

$$W = W_{car} * \frac{VKT_{car}}{VKT_{Total}} + W_{truck} * \frac{VKT_{truck}}{VKT_{car}}$$

3. Total PM<sub>2.5</sub> Emissions

$$Total\_PM_{2.5}ER_{(g/s)} = [TailpipeEF_{(g/VKT)} + RoadDustEF_{(g/VKT)}] * VKT_{Total}(kg/hr) * \frac{1hr}{3600s}$$

**NO<sub>x</sub> EMISSIONS**

Emissions of NO<sub>x</sub> from vehicle travel on roadways results solely from tailpipe emissions. The NO<sub>x</sub> tailpipe emissions were estimated in the same manner as the PM<sub>2.5</sub> tailpipe emissions, and using the emission factors included above in Tables 1a through 3c.

$$(a) \text{VKT}_{\text{Total}} = \text{VKT}_{\text{CDN\_car}} + \text{VKT}_{\text{CDN\_truck}} + \text{VKT}_{\text{US\_car}} + \text{VKT}_{\text{US\_Truck}}$$

$$(b) \text{Fleet Average EF}_{(g/\text{VKT})} =$$

$$EF_{\text{CDN\_car}} * \frac{\text{VKT}_{\text{CDN\_car}}}{\text{VKT}_{\text{Total}}} + EF_{\text{CDN\_truck}} \frac{\text{VKT}_{\text{CDN\_truck}}}{\text{VKT}_{\text{car}}} + EF_{\text{US\_car}} \frac{\text{VKT}_{\text{US\_car}}}{\text{VKT}_{\text{Total}}} + EF_{\text{US\_truck}} \frac{\text{VKT}_{\text{US\_truck}}}{\text{VKT}_{\text{Total}}}$$

$$(c) \text{NO}_x \text{TailpipeER}_{(g/s)} = \left[ \text{TailpipeEF}_{(g/\text{VKT})} \right] \times \text{VKT}_{\text{Total}}(\text{kg/hr}) \times \frac{1\text{hr}}{3600\text{s}}$$



### QUEUING AT THE CUSTOMS/INSPECTION PLAZAS

#### Key assumptions:

- Inbound vehicles at customs plaza will queue at inspection booths.
- Outbound vehicles at customs plaza will not queue.
- Queuing traffic volume is same as free-flowing traffic volume.
- There is always queuing (idling) at the booth due to the one vehicle in the booth being inspected.
- Inspection times for cars and trucks are 45 seconds and 60 seconds, respectively.

#### Customs Plaza Queuing Algorithm:

Groups of queue links were set up for each plaza based on an equal distribution of free flow traffic through each booth that is open during a given hour. Then each queue link was manually "turned on" or "off" by calculating the number of vehicles queued. This modeling approach represents the actual situation because not all groups of queue links actually experience queuing for a given hour.

The amount of queuing at each booth was calculated manually for each group of queue links and for each hour using the hourly free flow traffic volume and the number of booths that are open during each hour, which varies by demand.

1. For each hour, the number of booths that are open is calculated using the hourly free flow traffic volume and the inspection time for each vehicle.
2. The number of vehicles passing through each booth is then back calculated.
3. The calculated number from Step 2 is then compared with the capacity of each booth, i.e., 80 for cars and 60 for trucks. If the number is less than its capacity, then no queuing in this hour; if greater than its capacity, then queuing will occur and the difference is the number of vehicles queued at the booth during that hour.
4. Based on the results obtained from Step 3, the queue links are either "turned on" (with queuing) or "off" (no queuing).
5. If there is queuing, and the queue length per booth exceeds 4 trucks or 6 cars, an additional booth is opened, if possible.
6. If there are no more booths to open, the queue length extends far enough back to accommodate the number of vehicles waiting at the plaza. The locations depend on the physical configuration of each plaza; if the number of vehicles queued determined from Step 3 exceeds the physical length of the queue link, then the next corresponding group of queue links will be "turned on", and so on.

For example, for an hour with 1004 truck traffic, the number of booths that are needed is  $1004 / 60 = 17$ . Then the number of trucks passing through each booth is back calculated:  $1004 / 17 = 59$ . Since this number is less than the capacity of each booth (60 trucks per hour), there will be no queuing at each booth except for the one truck that is in the booth and being inspected.

For an hour with 443 truck traffic, the number of booths that are needed is  $443 / 60 = 7$ . Similarly, the back-calculated number of trucks passing through each booth is  $443 / 7 = 63.3$ . Theoretically, there will be 3.3 trucks queuing at each booth, in addition to the one truck that is in the booth and being inspected. If the group of queue links right next to the booths are set up such that only 2 trucks can wait in line, then 7 of the next group of queue links will be "turned on" and on each link, there will be 1.3 trucks queuing.

**Summary of CAL3QHCR Model Inputs:**

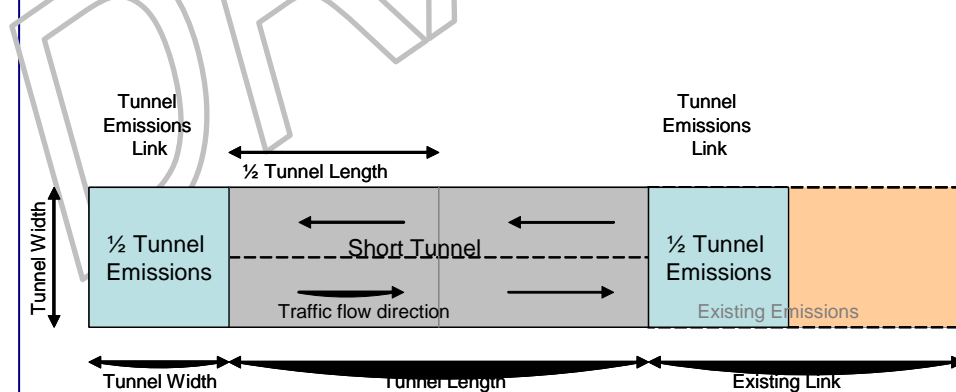
	Cars	Trucks
Number of queuing lanes	1	1
Light cycle time	45 seconds	60 seconds
Yellow time	0 seconds	0 seconds
Red duration time	40 seconds	55 seconds
Saturated flow volume (veh/hr/lane)	1200	1200
Signal type	2	2
Arrival rate	1	1
Maximum number of booths at each plaza	20	19

### TUNNEL OFFSET

For the Parkway option emissions for the tunnels were considered to be emitted from the ends of the tunnels and dispersed over a short distance from the end of the tunnel. The tunnel structures are open between opposing traffic directions such that air can flow freely between the opposing traffic thus the piston effect previously described for longer tunnels is minimized. In addition, the amount of turbulence from the tunnel egress points could be expected to impact both traffic flow directions.

To simulate these egress points, the tunnel emissions from each half of the tunnel were allocated to tunnel emissions links (TEL) as in the figure below. Any emissions from the tunnel are assumed to be evenly distributed across both traffic directions. To facilitate modeling using other models, if required, the length of the tunnel emissions link was assumed to be equivalent to the width of the tunnel (this allows for volume source configurations in other models). The tunnel emissions links were overlaid with the flow of existing traffic such that within the length of the tunnel emissions link, two emission values were input into the model: the tunnel emissions and the existing roadway emissions.

Figure C.1 – Schematic for emissions calculations from Tunnels



Vehicle emissions are directly proportional to the vehicle kilometers traveled (VKT), the number of vehicles per hour and an emission factor. Therefore, traveling a distance of 100 m in a vehicle will result in twice the emissions of traveling 50 m in the same vehicle. Or, two identical cars traveling 100 m will result in twice the emissions as one car traveling 100 m. Because this is a directly proportional ratio, it is possible to adjust the emission factor, the VKT, and/or the number of vehicles to calculate equivalent emissions in the TEL.

Because the TEL length is established by the width of the tunnel and the emission factor is calculated through the use of a macro in the approach used by SENES (and is considered constant between the tunnel and the TEL), artificially adjusting the number of vehicles in the TEL was the simplest way of ensuring equivalent emissions from the tunnel. Without this adjustment, the TEL would underestimate emissions by the ratio of half of the tunnel length to the TEL length (i.e., a tunnel of 180 m with a TEL length of 30 m would result in the TEL underpredicting emissions by a factor of 6 (180 m/30 m /2).

One other consideration with this methodology is that each traffic direction may have a different flow within the same tunnel. For example, north bound traffic may have 500 vehicles per hour and south bound traffic may have 1500 vehicles per hour. When the TEL links are established within the SENES input files the traffic data is automatically entered to be consistent with the link section. To calculate an average emission from the tunnel, an average of the two directions must be considered.

The methodology used to adjust the vehicles in the TEL is as follows:

1. Calculate the ratio of half of the tunnel lengths to the TEL lengths.
2. Adjust each of the traffic directions traffic data by this ratio.
3. Calculate an average adjusted traffic volume for the link.
4. Calculate the ratio of average adjusted traffic volume to the existing volume for each direction.
5. Apply this ratio to the existing traffic volume for each direction.
6. Use these traffic direction specific ratios to determine hourly traffic data.

The following sample calculations illustrate the concept.

Given:

Howard Tunnel Length: 114 m

Howard Tunnel Width (equivalent to TEL length): 40 m

Northbound total annual average daily traffic: 14,215 vehicles

Southbound total annual average daily traffic: 27,843 vehicles

Step 1 – Calculate ratio for TEL

$$= \frac{\text{Howard Tunnel Length} / 2}{\text{Howard Tunnel Width}} = \frac{114 / 2}{40} = 1.4$$

Step 2 – Adjust traffic by ratio in each direction

$$= \text{NB traffic} * 1.4 = 14,215 * 1.4 = 20,307 \text{ vehicles}$$

$$= \text{SB traffic} * 1.4 = 27,843 * 1.4 = 39,775 \text{ vehicles}$$

Step 3 – Calculate average adjusted traffic volume

$$= (\text{NB adjusted traffic} + \text{SB adjusted traffic})/2 = (20,307+39,775)/2 = 30,041 \text{ vehicles}$$

Step 4 – calculate the final adjustment ratio for each traffic direction

= average adjusted traffic volume / existing volume

$$= 30,041/14,215 = 2.1 \text{ for NB traffic}$$

$$= 30,041/27,843 = 1.1 \text{ for SB traffic}$$

Step 5 – Apply ratio to original traffic data to come up with equivalent traffic data

This is performed within Input Maker

Step 6 – Determine revised hourly traffic data

This is performed within Input Maker