The attached information is provided to support the agency's review process and shall not be distributed to other parties without written consent from Bunt & Associates Engineering Ltd.

APPENDIX D

TAC Signal Warrant Analysis

City of Vernon - Traffic Signal Warrant Analysis

Main Street (name)	25 Avenue	Direction (EW or NS)	EW
Side Street (name)	39 Street	Direction (EW or NS)	NS
Quadrant / Int #	2	Comments	2045 Background Traffic
for Warrant Calculation Results, please hit 'Page Down'	CHECK SHEET		

Road Authority:	City of Vernon
City:	Vernon
Analysis Date:	2024 Nov 21, Thu
Count Date:	2024 Sep 10, Tue
Date Entry Format:	

Lane Configuration		Excl LT	Th & LT	Through	Th+RT+LT	Th & RT	Excl RT	UpStream Signal (m)	# of Thru Lanes
25 Avenue	WB	1		2					2
25 Avenue	EB			1		1		100	2
39 Street	NB	1					1		
39 Street	SB								
Are the 39 Street NB right turns significantly impeded by through movements? (y/n)							n		
Are the 39 Street SB right turns significantly impeded by through movements? (y/n)							n		

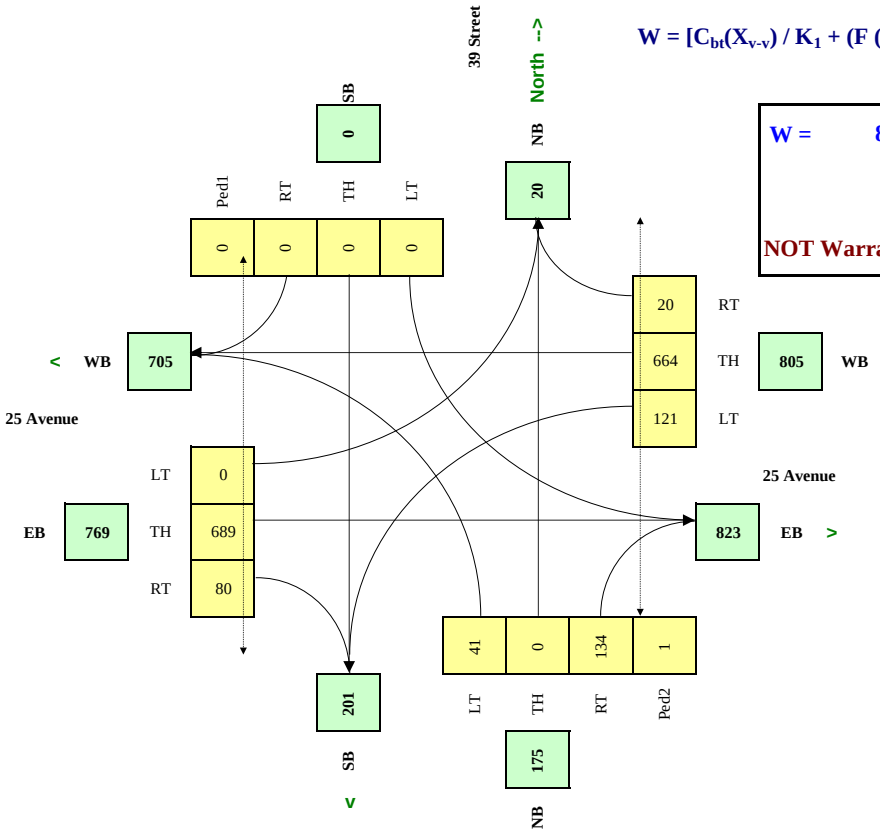
Demographics		
Elem. School/Mobility Challenged	(y/n)	n
Senior's Complex	(y/n)	n
Pathway to School	(y/n)	n
Metro Area Population	(#)	45,000
Central Business District	(y/n)	n

Other input		Speed (Km/h)	Truck %	Bus Rt (y/n)	Median (m)
25 Avenue	EW	50	2.0%	y	0.0
39 Street	NS		2.0%	n	

Set Peak Hours

Traffic Input	NB			SB			WB			EB			Ped1 NS	Ped2 NS	Ped3 EW	Ped4 EW
	LT	Th	RT	LT	Th	RT	LT	Th	RT	LT	Th	RT	W Side	E Side	N Side	S Side
6 Hour Traffic	244	0	805	0	0	0	728	3985	119	0	4133	479		8		36
Total (6-hour peak)	244	0	805	0	0	0	728	3,985	119	0	4,133	479	0	8	0	36
Average (6-hour peak)	41	0	134	0	0	0	121	664	20	0	689	80	0	1	0	6

Average 6-hour Peak Turning Movements



$$W = [C_{bt}(X_{v\text{-}v}) / K_1 + (F\,(X_{v\text{-}p})\,L) / K_2] \times C_i$$

W =	86	84	2
		Veh	*Ped*

NOT Warranted

RESET SHEET

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City of Vernon - Traffic Signal Warrant Analysis

Main Street (name)	34 Street	**Direction (EW or NS)**	NS
Side Street (name)	24 Avenue	**Direction (EW or NS)**	EW
Quadrant / Int #	7	**Comments**	2045 Background Traffic
for Warrant Calculation Results, please hit 'Page Down'	CHECK SHEET		

Road Authority:	City of Vernon	
City:	Vernon	
Analysis Date:	2024 Nov 21, Thu	
Count Date:	N/A	
Date Entry Format:		

Lane Configuration		Excl LT	Th & LT	Through	Th+RT+LT	Th & RT	Excl RT	UpStream Signal (m)	# of Thru Lanes
34 Street	NB	1				1		140	1
34 Street	SB	1				1			1
24 Avenue	WB				1				
24 Avenue	EB				1				

Are the 24 Avenue WB right turns significantly impeded by through movements?	(y/n)	n
Are the 24 Avenue EB right turns significantly impeded by through movements?	(y/n)	n

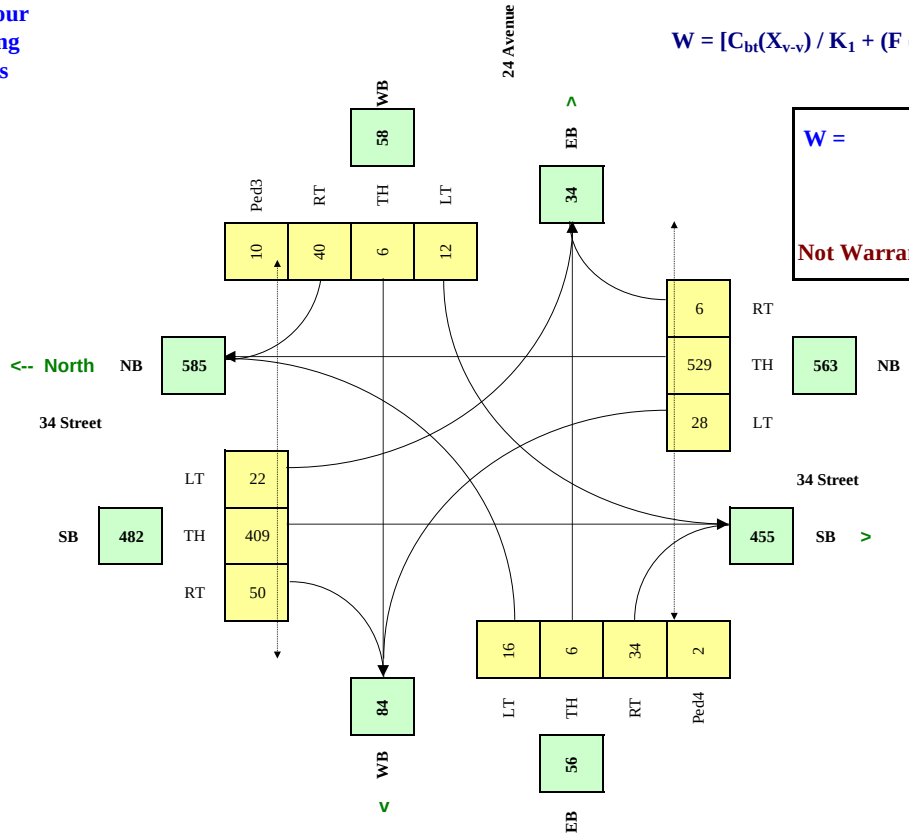
Demographics		
Elem. School/Mobility Challenged	(y/n)	n
Senior's Complex	(y/n)	n
Pathway to School	(y/n)	n
Metro Area Population	(#)	45,000
Central Business District	(y/n)	n

Other input		Speed (Km/h)	Truck %	Bus Rt (y/n)	Median (m)
34 Street	NS	50	2.0%	y	0.0
24 Avenue	EW		2.0%	n	

Set Peak Hours

Traffic Input	**NB**			**SB**			**WB**			**EB**			**Ped1 NS**	**Ped2 NS**	**Ped3 EW**	**Ped4 EW**
	LT	**Th**	**RT**	**LT**	**Th**	**RT**	**LT**	**Th**	**RT**	**LT**	**Th**	**RT**	**W Side**	**E Side**	**N Side**	**S Side**
6 Hour Traffic	169	3175	34	134	2454	302	73	34	238	98	34	205	86	22	62	10
Total (6-hour peak)	**169**	**3,175**	**34**	**134**	**2,454**	**302**	**73**	**34**	**238**	**98**	**34**	**205**	**86**	**22**	**62**	**10**
Average (6-hour peak)	**28**	**529**	**6**	**22**	**409**	**50**	**12**	**6**	**40**	**16**	**6**	**34**	**14**	**4**	**10**	**2**

Average 6-hour Peak Turning Movements



$$W = [C_{bt}(X_{v\text{-}v}) / K_1 + (F\,(X_{v\text{-}p})\,L) / K_2] \times C_i$$

W =	54	41	13
		Veh	*Ped*

Not Warranted - Vs<75

RESET SHEET

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City of Vernon - Traffic Signal Warrant Analysis

Main Street (name)	**34 Street**	**Direction (EW or NS)**	**NS**	**Road Authority:**	**City of Vernon**
Side Street (name)	**Okanagan Avenue**	**Direction (EW or NS)**	**EW**	**City:**	**Vernon**
Quadrant / Int #	**8**	**Comments**	**2045 Background Traffic**	**Analysis Date:**	**2024 Nov 21, Thu**
for Warrant Calculation Results, please hit 'Page Down'	**CHECK SHEET**			**Count Date:**	**N/A**
				Date Entry Format:	

Lane Configuration		Excl LT	Th & LT	Through	Th+RT+LT	Th & RT	Excl RT	UpStream Signal (m)	# of Thru Lanes
34 Street	NB				1				1
34 Street	SB				1			290	1
Okanagan Avenue	WB	1					1		
Okanagan Avenue	EB				1				
Are the Okanagan Avenue WB right turns significantly impeded by through movements? (y/n)							n		
Are the Okanagan Avenue EB right turns significantly impeded by through movements? (y/n)							n		

Demographics		
Elem. School/Mobility Challenged	(y/n)	n
Senior's Complex	(y/n)	n
Pathway to School	(y/n)	n
Metro Area Population	(#)	45,000
Central Business District	(y/n)	n

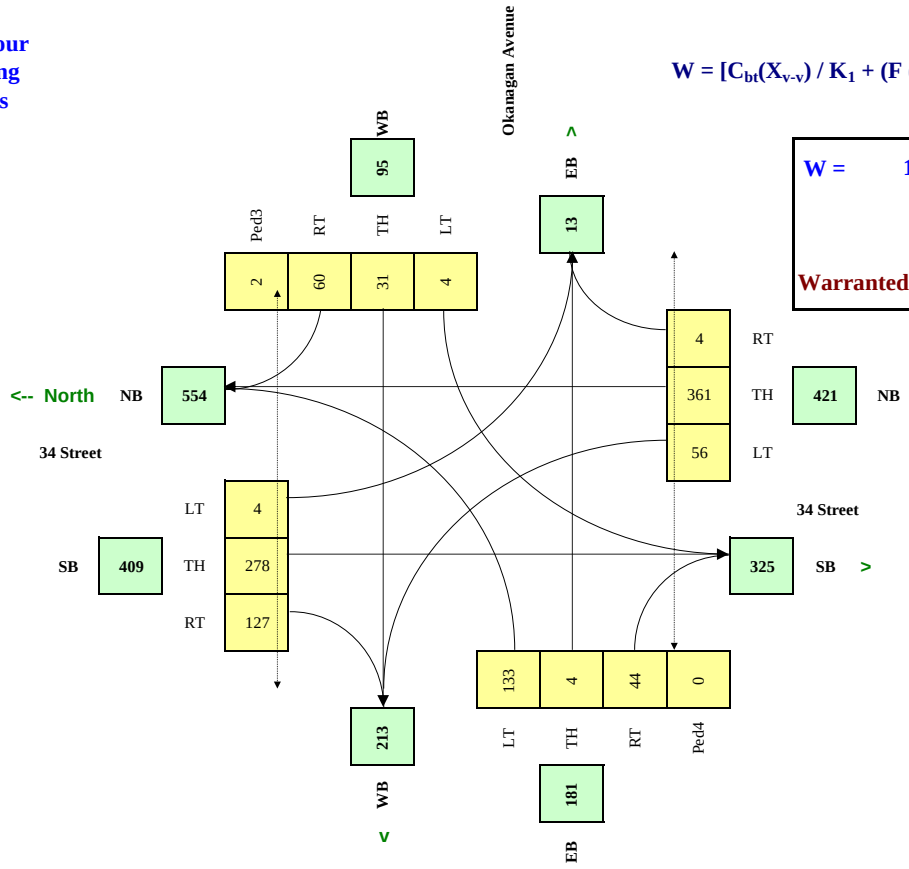
Other input		Speed (Km/h)	Truck %	Bus Rt (y/n)	Median (m)
34 Street	NS	50	2.0%	y	0.0
Okanagan Avenue	EW		2.0%	n	

Set Peak Hours

Traffic Input	**NB**			**SB**			**WB**			**EB**			**Ped1 NS**	**Ped2 NS**	**Ped3 EW**	**Ped4 EW**
	LT	**Th**	**RT**	**LT**	**Th**	**RT**	**LT**	**Th**	**RT**	**LT**	**Th**	**RT**	**W Side**	**E Side**	**N Side**	**S Side**
6 Hour Traffic	333	2167	25	25	1665	762	25	185	360	797	25	261	60	8	12	0
Total (6-hour peak)	**333**	**2,167**	**25**	**25**	**1,665**	**762**	**25**	**185**	**360**	**797**	**25**	**261**	**60**	**8**	**12**	**0**
Average (6-hour peak)	**56**	**361**	**4**	**4**	**278**	**127**	**4**	**31**	**60**	**133**	**4**	**44**	**10**	**1**	**2**	**0**

Average 6-hour Peak Turning Movements

$$W = [C_{bt}(X_{v\text{-}v}) / K_1 + (F\,(X_{v\text{-}p})\,L) / K_2] \times C_i$$



W =	**103**	**101**	**2**
		Veh	***Ped***
Warranted			

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City of Vernon - Traffic Signal Warrant Analysis

Main Street (name)	**41 Street**	**Direction (EW or NS)**	**NS**	**Road Authority:**	**City of Vernon**
Side Street (name)	**27 Avenue**	**Direction (EW or NS)**	**EW**	**City:**	**Vernon**
Quadrant / Int #	**11**	**Comments**	**2045 Background Traffic**	**Analysis Date:**	**2024 Nov 07, Thu**
				Count Date:	**2024 May 23, Thu**
for Warrant Calculation Results, please hit 'Page Down'	**CHECK SHEET**			**Date Entry Format:**	

Lane Configuration		Excl LT	Th & LT	Through	Th+RT+LT	Th & RT	Excl RT	UpStream Signal (m)	# of Thru Lanes
41 Street	NB			1				130	1
41 Street	SB			1				230	1
27 Avenue	WB			1					
27 Avenue	EB			1					
Are the 27 Avenue WB right turns significantly impeded by through movements? (y/n)							n		
Are the 27 Avenue EB right turns significantly impeded by through movements? (y/n)							n		

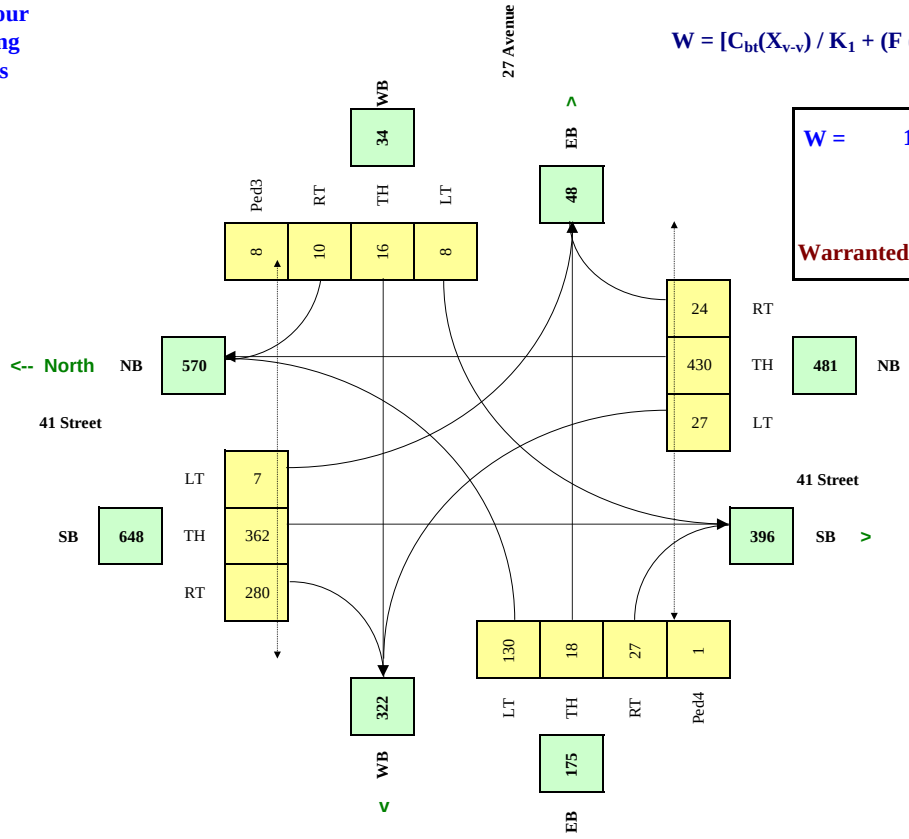
Demographics		
Elem. School/Mobility Challenged	(y/n)	n
Senior's Complex	(y/n)	n
Pathway to School	(y/n)	n
Metro Area Population	(#)	45,000
Central Business District	(y/n)	n

Other input		Speed (Km/h)	Truck %	Bus Rt (y/n)	Median (m)
41 Street	NS	50	2.0%	y	0.0
27 Avenue	EW		2.0%	n	

Set Peak Hours

Traffic Input	**NB**			**SB**			**WB**			**EB**			**Ped1 NS**	**Ped2 NS**	**Ped3 EW**	**Ped4 EW**
	LT	**Th**	**RT**	**LT**	**Th**	**RT**	**LT**	**Th**	**RT**	**LT**	**Th**	**RT**	**W Side**	**E Side**	**N Side**	**S Side**
6 Hour Traffic	161	2581	142	40	2170	1678	47	94	60	780	107	161	31	3	48	4
Total (6-hour peak)	**161**	**2,581**	**142**	**40**	**2,170**	**1,678**	**47**	**94**	**60**	**780**	**107**	**161**	**31**	**3**	**48**	**4**
Average (6-hour peak)	**27**	**430**	**24**	**7**	**362**	**280**	**8**	**16**	**10**	**130**	**18**	**27**	**5**	**1**	**8**	**1**

Average 6-hour Peak Turning Movements



$$W = [C_{bt}(X_{v\text{-}v}) / K_1 + (F\,(X_{v\text{-}p})\,L) / K_2] \times C_i$$

W =	114	104	10
		Veh	*Ped*

Warranted

RESET SHEET

City of Vernon - Traffic Signal Warrant Analysis

Main Street (name)	**Pleasant Valley Road**	**Direction (EW or NS)**	**NS**	**Road Authority:**	**City of Vernon**
Side Street (name)	**46 Avenue**	**Direction (EW or NS)**	**EW**	**City:**	**Vernon**
Quadrant / Int #	**19**	**Comments**	**2045 Background Traffic**	**Analysis Date:**	**2024 Nov 21, Thu**
for Warrant Calculation Results, please hit 'Page Down'	**CHECK SHEET**			**Count Date:**	**2024 May 28, Tue**
				Date Entry Format:	

Lane Configuration		Excl LT	Th & LT	Through	Th+RT+LT	Th & RT	Excl RT	UpStream Signal (m)	# of Thru Lanes
Pleasant Valley Road	NB				1				1
Pleasant Valley Road	SB				1				1
46 Avenue	WB				1				
46 Avenue	EB				1				
Are the 46 Avenue WB right turns significantly impeded by through movements? (y/n)							n		
Are the 46 Avenue EB right turns significantly impeded by through movements? (y/n)							n		

Demographics		
Elem. School/Mobility Challenged	(y/n)	n
Senior's Complex	(y/n)	n
Pathway to School	(y/n)	n
Metro Area Population	(#)	45,000
Central Business District	(y/n)	n

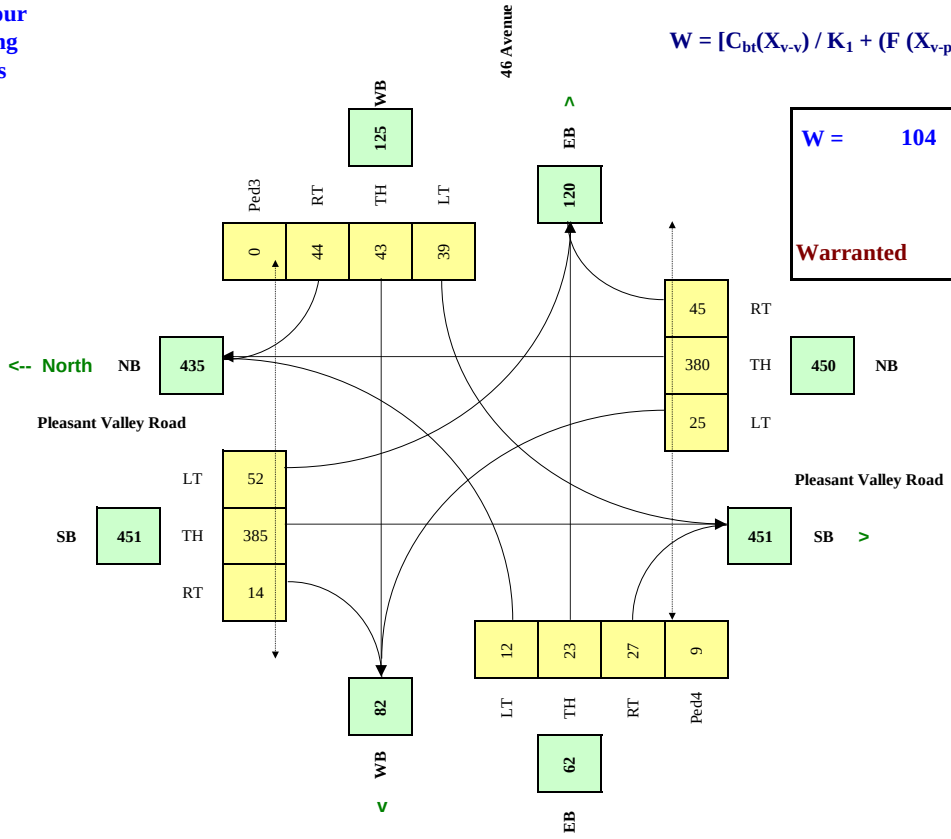
Other input		Speed (Km/h)	Truck %	Bus Rt (y/n)	Median (m)
Pleasant Valley Road	NS	50	2.0%	y	0.0
46 Avenue	EW		2.0%	n	

Set Peak Hours

Traffic Input	**NB**			**SB**			**WB**			**EB**			**Ped1 NS**	**Ped2 NS**	**Ped3 EW**	**Ped4 EW**
	LT	**Th**	**RT**	**LT**	**Th**	**RT**	**LT**	**Th**	**RT**	**LT**	**Th**	**RT**	**W Side**	**E Side**	**N Side**	**S Side**
6 Hour Traffic	150	2279	269	311	2311	82	233	257	261	72	139	159	11	28	0	54
Total (6-hour peak)	**150**	**2,279**	**269**	**311**	**2,311**	**82**	**233**	**257**	**261**	**72**	**139**	**159**	**11**	**28**	**0**	**54**
Average (6-hour peak)	**25**	**380**	**45**	**52**	**385**	**14**	**39**	**43**	**44**	**12**	**23**	**27**	**2**	**5**	**0**	**9**

Average 6-hour Peak Turning Movements

$$W = [C_{bt}(X_{v\text{-}v}) / K_1 + (F\,(X_{v\text{-}p})\,L) / K_2] \times C_i$$



W =	**104**	**95**	**9**
		Veh	***Ped***
Warranted			

RESET SHEET

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City of Vernon - Traffic Signal Warrant Analysis

Main Street (name)	48 Avenue	**Direction (EW or NS)**	EW
Side Street (name)	24 Street	**Direction (EW or NS)**	NS
Quadrant / Int #	20	**Comments**	2035 Background Traffic

for Warrant Calculation Results, please hit 'Page Down'

CHECK SHEET

Road Authority:	City of Vernon
City:	Vernon
Analysis Date:	2024 Nov 07, Thu
Count Date:	2024 May 30, Thu
Date Entry Format:	

Lane Configuration		Excl LT	Th & LT	Through	Th+RT+LT	Th & RT	Excl RT	UpStream Signal (m)	# of Thru Lanes
48 Avenue	WB		1			1		215	2
48 Avenue	EB	1		1		1		340	2
24 Street	NB				1				
24 Street	SB		1				1		

Are the 24 Street NB right turns significantly impeded by through movements? (y/n) n

Are the 24 Street SB right turns significantly impeded by through movements? (y/n) n

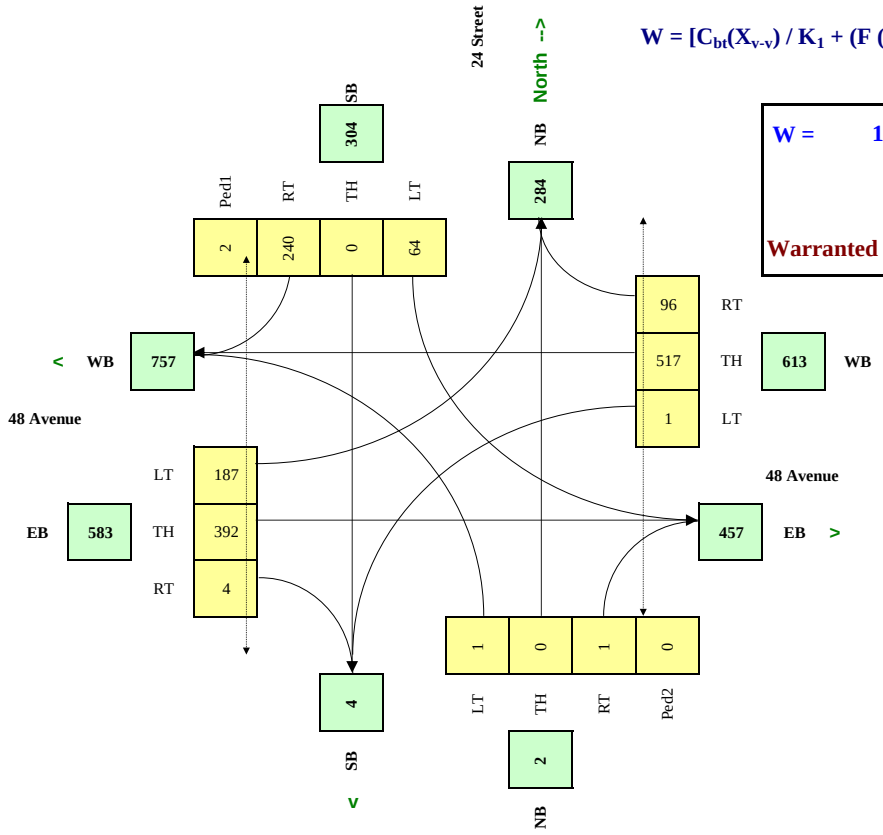
Demographics		
Elem. School/Mobility Challenged	(y/n)	n
Senior's Complex	(y/n)	n
Pathway to School	(y/n)	n
Metro Area Population	(#)	45,000
Central Business District	(y/n)	n

Other input		Speed (Km/h)	Truck %	Bus Rt (y/n)	Median (m)
48 Avenue	EW	50	2.0%	y	0.0
24 Street	NS		2.0%	n	

Set Peak Hours

Traffic Input	NB			SB			WB			EB			Ped1 NS	Ped2 NS	Ped3 EW	Ped4 EW
	LT	Th	RT	LT	Th	RT	LT	Th	RT	LT	Th	RT	W Side	E Side	N Side	S Side
6 Hour Traffic	3	1	7	382	1	1441	3	3100	577	1124	2353	22	14	0	20	34
Total (6-hour peak)	3	1	7	382	1	1,441	3	3,100	577	1,124	2,353	22	14	0	20	34
Average (6-hour peak)	1	0	1	64	0	240	1	517	96	187	392	4	2	0	3	6

Average 6-hour Peak Turning Movements



$$W = [C_{bt}(X_{v\text{-}v}) / K_1 + (F\ (X_{v\text{-}p})\ L) / K_2] \times C_i$$

W =	110	107	3
		Veh	*Ped*

Warranted

RESET SHEET

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City of Vernon - Traffic Signal Warrant Analysis

Main Street (name)	58 Avenue	Direction (EW or NS)	EW
Side Street (name)	24 Street	Direction (EW or NS)	NS
Quadrant / Int #	21	Comments	2035 Background Traffic

for Warrant Calculation Results, please hit 'Page Down'

CHECK SHEET

Road Authority:	City of Vernon
City:	Vernon
Analysis Date:	2024 Nov 07, Thu
Count Date:	2024 May 30, Thu
Date Entry Format:	

Lane Configuration		Excl LT	Th & LT	Through	Th+RT+LT	Th & RT	Excl RT	UpStream Signal (m)	# of Thru Lanes
58 Avenue	WB	1				1		120	1
58 Avenue	EB	1		1			1		1
24 Street	NB	1				1			
24 Street	SB				1				

Are the 24 Street NB right turns significantly impeded by through movements?	(y/n)	n
Are the 24 Street SB right turns significantly impeded by through movements?	(y/n)	n

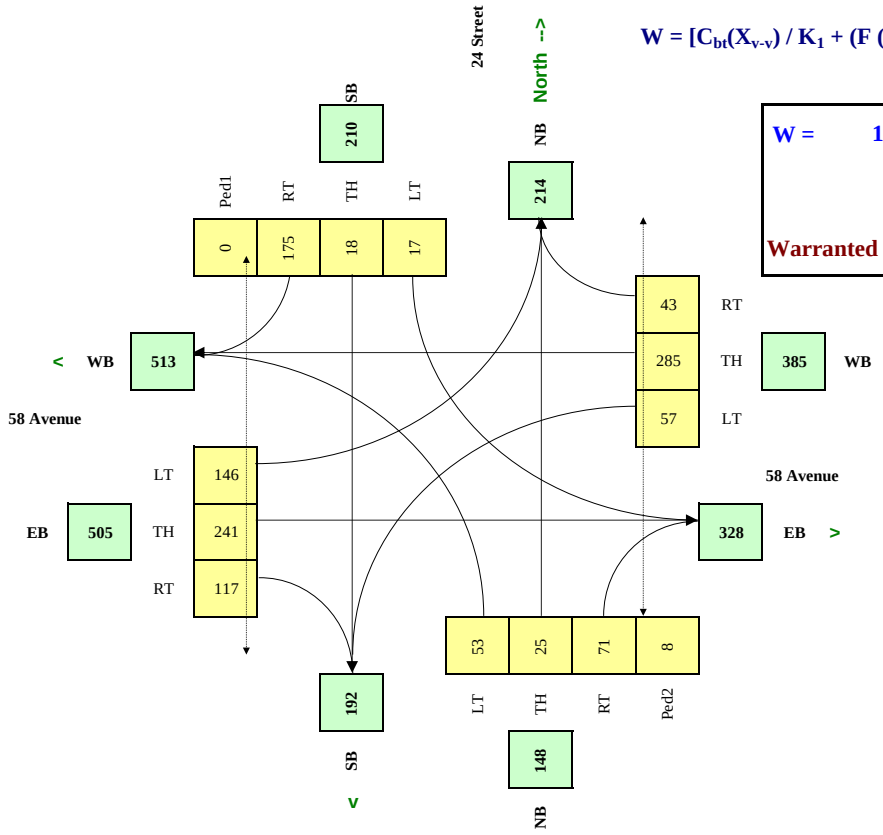
Demographics		
Elem. School/Mobility Challenged	(y/n)	n
Senior's Complex	(y/n)	n
Pathway to School	(y/n)	n
Metro Area Population	(#)	45,000
Central Business District	(y/n)	n

Other input		Speed (Km/h)	Truck %	Bus Rt (y/n)	Median (m)
58 Avenue	EW	50	2.0%	y	0.0
24 Street	NS		2.0%	n	

Set Peak Hours

Traffic Input	NB			SB			WB			EB			Ped1 NS	Ped2 NS	Ped3 EW	Ped4 EW
	LT	Th	RT	LT	Th	RT	LT	Th	RT	LT	Th	RT	W Side	E Side	N Side	S Side
6 Hour Traffic	315	151	423	100	106	1052	344	1711	256	877	1446	704		50	27	41
Total (6-hour peak)	315	151	423	100	106	1,052	344	1,711	256	877	1,446	704	0	50	27	41
Average (6-hour peak)	53	25	71	17	18	175	57	285	43	146	241	117	0	8	5	7

Average 6-hour Peak Turning Movements



$$W = [C_{bt}(X_{v\text{-}v}) / K_1 + (F\,(X_{v\text{-}p})\,L) / K_2] \times C_i$$

W =	103	97	6
		Veh	*Ped*

Warranted

RESET SHEET

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City of Vernon - Traffic Signal Warrant Analysis

Main Street (name)	39 Avenue	**Direction (EW or NS)**	EW
Side Street (name)	33 Street	**Direction (EW or NS)**	NS
Quadrant / Int #	24	**Comments**	2045 Background Traffic
for Warrant Calculation Results, please hit 'Page Down'	CHECK SHEET		

Road Authority:	City of Vernon	
City:	Vernon	
Analysis Date:	2024 Nov 21, Thu	
Count Date:	2024 May 28, Tue	
Date Entry Format:		

Lane Configuration		Excl LT	Th & LT	Through	Th+RT+LT	Th & RT	Excl RT	UpStream Signal (m)	# of Thru Lanes
39 Avenue	WB	1				1			1
39 Avenue	EB	1				1		90	1
33 Street	NB				1				
33 Street	SB				1				
Are the 33 Street NB right turns significantly impeded by through movements? (y/n)							n		
Are the 33 Street SB right turns significantly impeded by through movements? (y/n)							n		

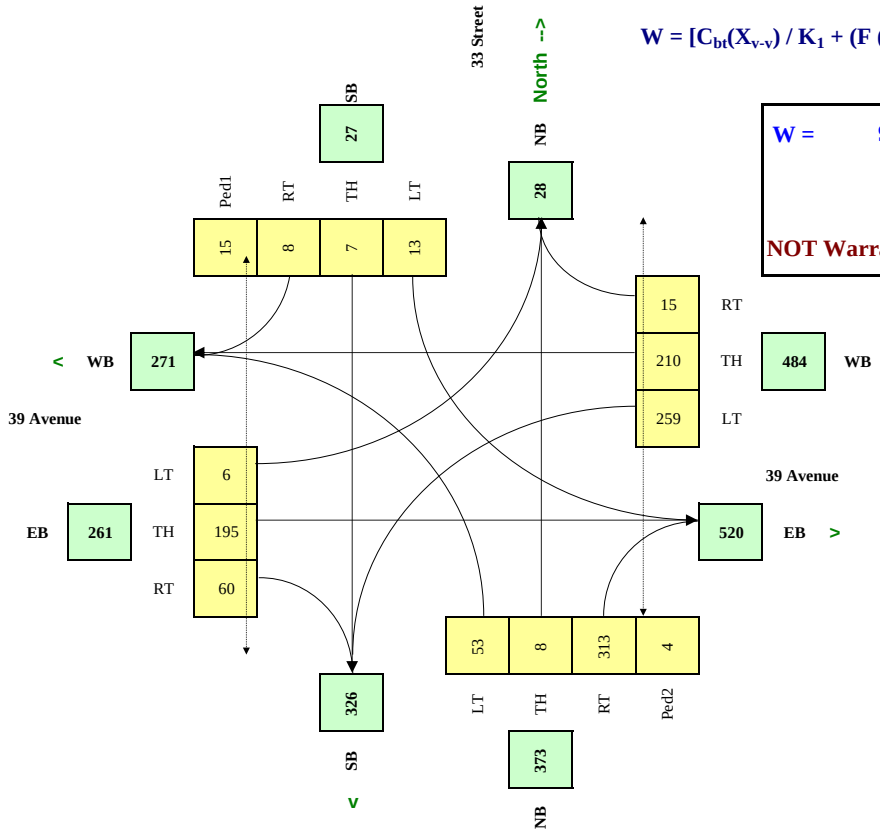
Demographics		
Elem. School/Mobility Challenged	(y/n)	n
Senior's Complex	(y/n)	n
Pathway to School	(y/n)	n
Metro Area Population	(#)	45,000
Central Business District	(y/n)	n

Other input		Speed (Km/h)	Truck %	Bus Rt (y/n)	Median (m)
39 Avenue	EW	50	2.0%	y	0.0
33 Street	NS		2.0%	n	

Set Peak Hours

Traffic Input	**NB**			**SB**			**WB**			**EB**			**Ped1 NS**	**Ped2 NS**	**Ped3 EW**	**Ped4 EW**
	LT	**Th**	**RT**	**LT**	**Th**	**RT**	**LT**	**Th**	**RT**	**LT**	**Th**	**RT**	**W Side**	**E Side**	**N Side**	**S Side**
6 Hour Traffic	316	47	1876	75	42	46	1552	1261	90	33	1170	361	89	21	82	122
Total (6-hour peak)	**316**	**47**	**1,876**	**75**	**42**	**46**	**1,552**	**1,261**	**90**	**33**	**1,170**	**361**	**89**	**21**	**82**	**122**
Average (6-hour peak)	**53**	**8**	**313**	**13**	**7**	**8**	**259**	**210**	**15**	**6**	**195**	**60**	**15**	**4**	**14**	**20**

Average 6-hour Peak Turning Movements



$$W = [C_{bt}(X_{v\text{-}v}) / K_1 + (F\,(X_{v\text{-}p})\,L) / K_2] \times C_i$$

W =	**90**	**79**	**11**
		Veh	***Ped***

NOT Warranted

RESET SHEET

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City of Vernon - Traffic Signal Warrant Analysis

Main Street (name)	Middleton Way	**Direction (EW or NS)**	NS	**Road Authority:**	City of Vernon
Side Street (name)	Kosmina Rd	**Direction (EW or NS)**	EW	**City:**	Vernon
Quadrant / Int #	31	**Comments**	2045 Background Traffic	**Analysis Date:**	2024 Nov 21, Thu
				Count Date:	2024 May 16, Thu
for Warrant Calculation Results, please hit 'Page Down'	CHECK SHEET			**Date Entry Format:**	

Lane Configuration		Excl LT	Th & LT	Through	Th+RT+LT	Th & RT	Excl RT	UpStream Signal (m)	# of Thru Lanes
Middleton Way	NB	1				1		140	1
Middleton Way	SB	1				1			1
Kosmina Rd	WB				1				
Kosmina Rd	EB				1				
Are the Kosmina Rd WB right turns significantly impeded by through movements? (y/n)							n		
Are the Kosmina Rd EB right turns significantly impeded by through movements? (y/n)							n		

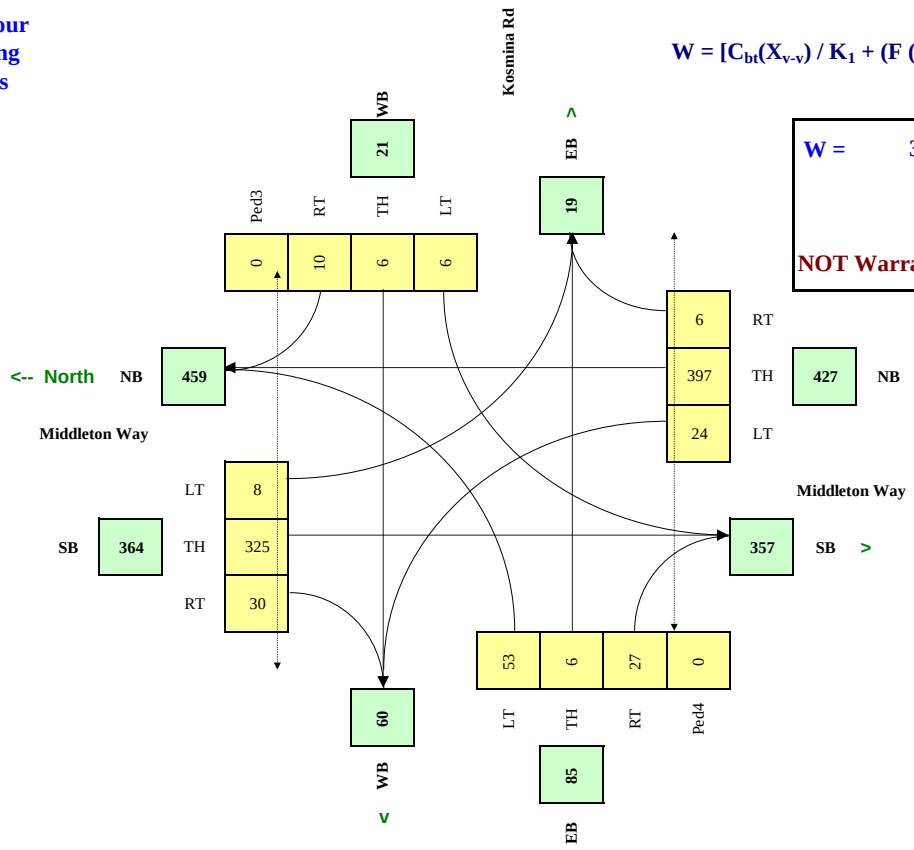
Demographics		
Elem. School/Mobility Challenged	(y/n)	n
Senior's Complex	(y/n)	n
Pathway to School	(y/n)	n
Metro Area Population	(#)	45,000
Central Business District	(y/n)	n

Other input		Speed (Km/h)	Truck %	Bus Rt (y/n)	Median (m)
Middleton Way	NS	50	2.0%	y	0.0
Kosmina Rd	EW		2.0%	n	

Set Peak Hours

Traffic Input	**NB**			**SB**			**WB**			**EB**			**Ped1 NS**	**Ped2 NS**	**Ped3 EW**	**Ped4 EW**
	LT	**Th**	**RT**	**LT**	**Th**	**RT**	**LT**	**Th**	**RT**	**LT**	**Th**	**RT**	**W Side**	**E Side**	**N Side**	**S Side**
6 Hour Traffic	143	2383	33	49	1950	182	33	33	57	315	33	161	12	11	2	2
Total (6-hour peak)	**143**	**2,383**	**33**	**49**	**1,950**	**182**	**33**	**33**	**57**	**315**	**33**	**161**	**12**	**11**	**2**	**2**
Average (6-hour peak)	**24**	**397**	**6**	**8**	**325**	**30**	**6**	**6**	**10**	**53**	**6**	**27**	**2**	**2**	**0**	**0**

Average 6-hour Peak Turning Movements



$$W = [C_{bt}(X_{v\text{-}v}) / K_1 + (F\,(X_{v\text{-}p})\,L) / K_2] \times C_i$$

W =	36	36	0
		Veh	*Ped*

NOT Warranted

RESET SHEET

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City of Vernon - Traffic Signal Warrant Analysis

Main Street (name)	Middleton Way	**Direction (EW or NS)**	NS	**Road Authority:**	City of Vernon
Side Street (name)	11 Avenue	**Direction (EW or NS)**	EW	**City:**	Vernon
Quadrant / Int #	32	**Comments**	2045 Background Traffic	**Analysis Date:**	2024 Nov 21, Thu
for Warrant Calculation Results, please hit 'Page Down'	CHECK SHEET			**Count Date:**	2024 May 16, Thu
				Date Entry Format:	

Lane Configuration		Excl LT	Th & LT	Through	Th+RT+LT	Th & RT	Excl RT	UpStream Signal (m)	# of Thru Lanes
Middleton Way	NB	1		1		1			2
Middleton Way	SB	1		1		1			2
11 Avenue	WB				1				
11 Avenue	EB				1				
Are the 11 Avenue WB right turns significantly impeded by through movements? (y/n)							n		
Are the 11 Avenue EB right turns significantly impeded by through movements? (y/n)							n		

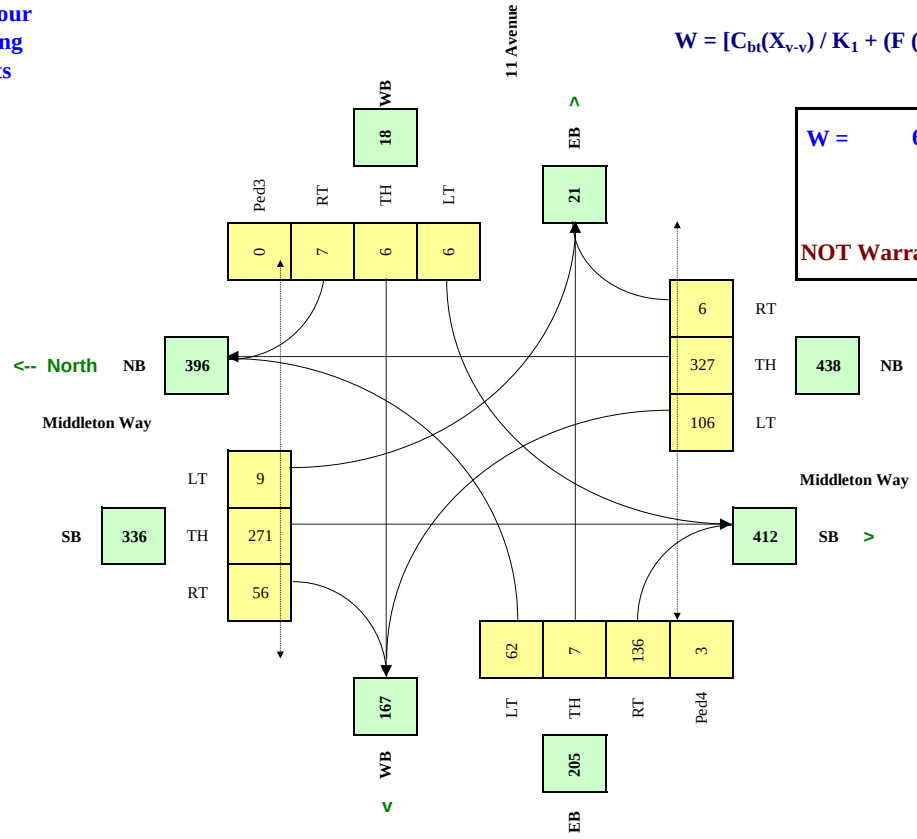
Demographics		
Elem. School/Mobility Challenged	(y/n)	n
Senior's Complex	(y/n)	n
Pathway to School	(y/n)	n
Metro Area Population	(#)	45,000
Central Business District	(y/n)	n

Other input		Speed (Km/h)	Truck %	Bus Rt (y/n)	Median (m)
Middleton Way	NS	50	2.0%	y	0.0
11 Avenue	EW		2.0%	n	

Set Peak Hours

Traffic Input	NB			SB			WB			EB			Ped1 NS	Ped2 NS	Ped3 EW	Ped4 EW
	LT	Th	RT	LT	Th	RT	LT	Th	RT	LT	Th	RT	W Side	E Side	N Side	S Side
6 Hour Traffic	634	1962	33	52	1624	337	33	33	43	372	42	815	3	20	1	20
Total (6-hour peak)	**634**	**1,962**	**33**	**52**	**1,624**	**337**	**33**	**33**	**43**	**372**	**42**	**815**	**3**	**20**	**1**	**20**
Average (6-hour peak)	**106**	**327**	**6**	**9**	**271**	**56**	**6**	**6**	**7**	**62**	**7**	**136**	**1**	**3**	**0**	**3**

Average 6-hour Peak Turning Movements



$$W = [C_{bt}(X_{v\text{-}v}) / K_1 + (F\,(X_{v\text{-}p})\,L) / K_2] \times C_i$$

W =	60	56	4
		Veh	*Ped*

NOT Warranted

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City of Vernon - Traffic Signal Warrant Analysis

Main Street (name)	Kalamalka Lake Road	**Direction (EW or NS)**	NS	**Road Authority:**	City of Vernon
Side Street (name)	11 Avenue	**Direction (EW or NS)**	EW	**City:**	Vernon
Quadrant / Int #	33	**Comments**	2030 Background Traffic	**Analysis Date:**	2024 Nov 21, Thu
				Count Date:	2024 May 16, Thu
for Warrant Calculation Results, please hit 'Page Down'	CHECK SHEET			**Date Entry Format:**	

Lane Configuration		Excl LT	Th & LT	Through	Th+RT+LT	Th & RT	Excl RT	UpStream Signal (m)	# of Thru Lanes
Kalamalka Lake Road	NB					1			1
Kalamalka Lake Road	SB	1		1					1
11 Avenue	WB				1				
11 Avenue	EB								
Are the 11 Avenue WB right turns significantly impeded by through movements? (y/n)							n		
Are the 11 Avenue EB right turns significantly impeded by through movements? (y/n)							n		

Demographics		
Elem. School/Mobility Challenged	(y/n)	n
Senior's Complex	(y/n)	n
Pathway to School	(y/n)	n
Metro Area Population	(#)	45,000
Central Business District	(y/n)	n

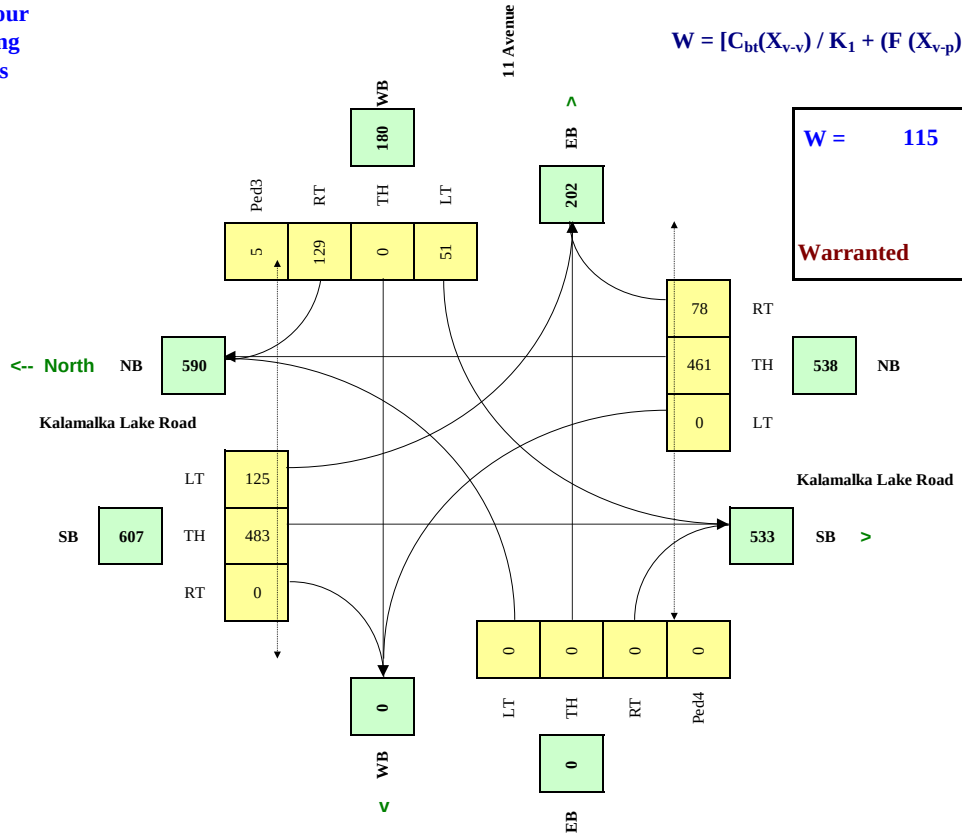
Other input		Speed (Km/h)	Truck %	Bus Rt (y/n)	Median (m)
Kalamalka Lake Road	NS	50	2.0%	y	0.0
11 Avenue	EW		2.0%	n	

Set Peak Hours

Traffic Input	NB			SB			WB			EB			Ped1 NS	Ped2 NS	Ped3 EW	Ped4 EW
	LT	Th	RT	LT	Th	RT	LT	Th	RT	LT	Th	RT	W Side	E Side	N Side	S Side
6 Hour Traffic	0	2763	465	749	2895	0	304	0	775	0	0	0		7	27	
Total (6-hour peak)	0	2,763	465	749	2,895	0	304	0	775	0	0	0	0	7	27	0
Average (6-hour peak)	0	461	78	125	483	0	51	0	129	0	0	0	0	1	5	0

Average 6-hour Peak Turning Movements

$$W = [C_{bt}(X_{v\text{-}v}) / K_1 + (F\,(X_{v\text{-}p})\,L) / K_2] \times C_i$$



W =	115	109	6
		Veh	*Ped*

Warranted

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City of Vernon - Traffic Signal Warrant Analysis

Main Street (name)	30 Avenue	**Direction (EW or NS)**	EW
Side Street (name)	35 Street	**Direction (EW or NS)**	NS
Quadrant / Int #	36	**Comments**	2045 Background Traffic
for Warrant Calculation Results, please hit 'Page Down'	CHECK SHEET		

Road Authority:	City of Vernon
City:	Vernon
Analysis Date:	2024 Nov 21, Thu
Count Date:	2024 May 23, Thu
Date Entry Format:	

Lane Configuration		Excl LT	Th & LT	Through	Th+RT+LT	Th & RT	Excl RT	UpStream Signal (m)	# of Thru Lanes
30 Avenue	WB				1				1
30 Avenue	EB				1			150	1
35 Street	NB	1					1		
35 Street	SB				1				
Are the 35 Street NB right turns significantly impeded by through movements? (y/n)							n		
Are the 35 Street SB right turns significantly impeded by through movements? (y/n)							n		

Demographics		
Elem. School/Mobility Challenged	(y/n)	n
Senior's Complex	(y/n)	n
Pathway to School	(y/n)	n
Metro Area Population	(#)	45,000
Central Business District	(y/n)	n

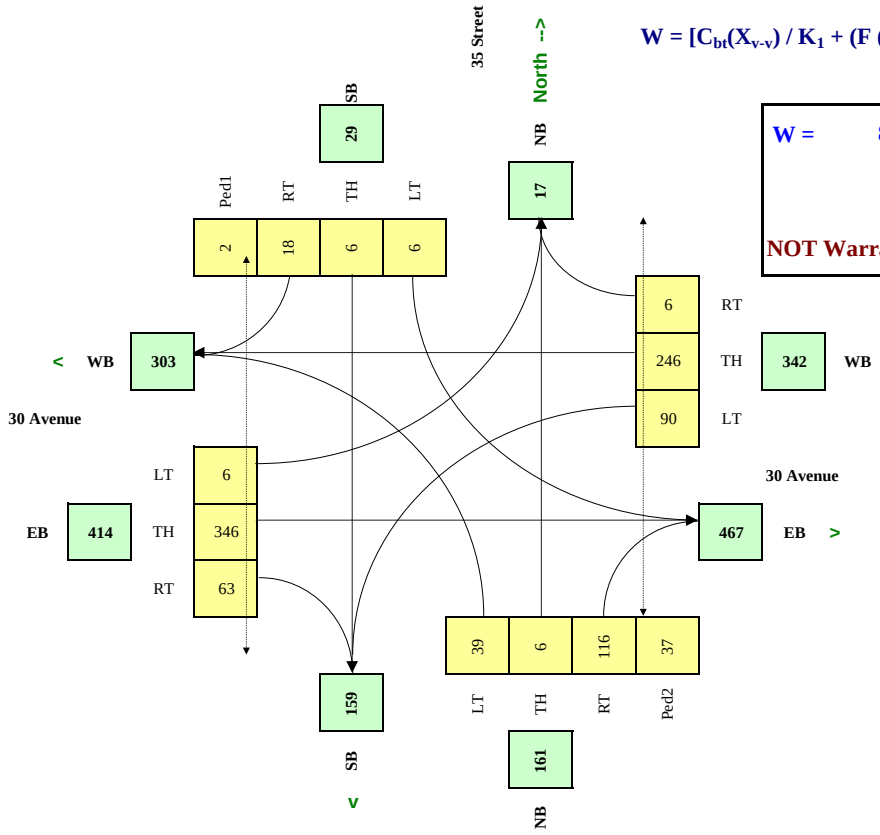
Other input		Speed (Km/h)	Truck %	Bus Rt (y/n)	Median (m)
30 Avenue	EW	50	2.0%	y	0.0
35 Street	NS		2.0%	n	

Set Peak Hours

Traffic Input	NB			SB			WB			EB			Ped1 NS	Ped2 NS	Ped3 EW	Ped4 EW
	LT	Th	RT	LT	Th	RT	LT	Th	RT	LT	Th	RT	W Side	E Side	N Side	S Side
6 Hour Traffic	235	33	697	33	33	105	540	1476	33	33	2074	378	9	223	182	201
Total (6-hour peak)	235	33	697	33	33	105	540	1,476	33	33	2,074	378	9	223	182	201
Average (6-hour peak)	39	6	116	6	6	18	90	246	6	6	346	63	2	37	30	34

Average 6-hour Peak Turning Movements

$$W = [C_{bt}(X_{v\text{-}v}) / K_1 + (F\,(X_{v\text{-}p})\,L) / K_2] \times C_i$$



W =	83	52	31
		Veh	*Ped*

NOT Warranted

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City of Vernon - Traffic Signal Warrant Analysis

Main Street (name)	30 Avenue	**Direction (EW or NS)**	EW
Side Street (name)	33 Street	**Direction (EW or NS)**	NS
Quadrant / Int #	37	**Comments**	2045 Background Traffic
for Warrant Calculation Results, please hit 'Page Down'	CHECK SHEET		

Road Authority:	City of Vernon
City:	Vernon
Analysis Date:	2024 Nov 21, Thu
Count Date:	2024 May 23, Thu
Date Entry Format:	

Lane Configuration		Excl LT	Th & LT	Through	Th+RT+LT	Th & RT	Excl RT	UpStream Signal (m)	# of Thru Lanes
30 Avenue	WB				1			130	1
30 Avenue	EB				1			95	1
33 Street	NB				1				
33 Street	SB				1				
Are the 33 Street NB right turns significantly impeded by through movements? (y/n)							n		
Are the 33 Street SB right turns significantly impeded by through movements? (y/n)							n		

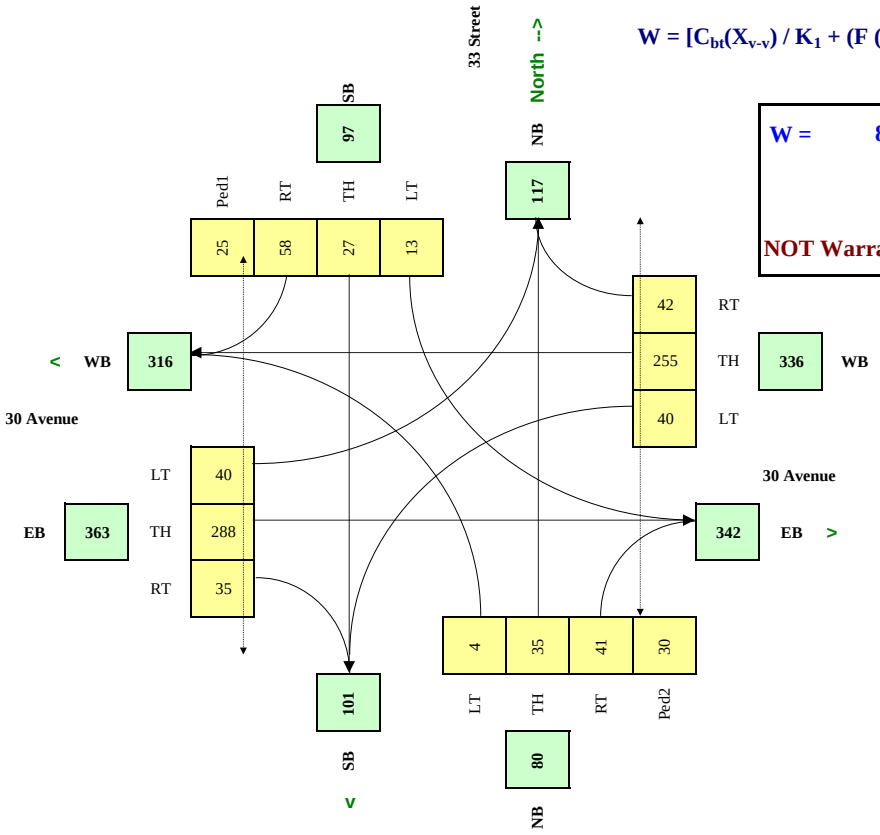
Demographics		
Elem. School/Mobility Challenged	(y/n)	n
Senior's Complex	(y/n)	n
Pathway to School	(y/n)	n
Metro Area Population	(#)	45,000
Central Business District	(y/n)	n

Other input		Speed (Km/h)	Truck %	Bus Rt (y/n)	Median (m)
30 Avenue	EW	50	2.0%	y	0.0
33 Street	NS		2.0%	n	

Set Peak Hours

Traffic Input	NB			SB			WB			EB			Ped1 NS	Ped2 NS	Ped3 EW	Ped4 EW
	LT	Th	RT	LT	Th	RT	LT	Th	RT	LT	Th	RT	W Side	E Side	N Side	S Side
6 Hour Traffic	25	207	246	75	163	345	238	1528	251	241	1729	207	151	177	571	452
Total (6-hour peak)	25	207	246	75	163	345	238	1,528	251	241	1,729	207	151	177	571	452
Average (6-hour peak)	4	35	41	13	27	58	40	255	42	40	288	35	25	30	95	75

Average 6-hour Peak Turning Movements



$$W = [C_{bt}(X_{v\text{-}v}) / K_1 + (F\,(X_{v\text{-}p})\,L) / K_2] \times C_i$$

W =	83	47	36
		Veh	*Ped*

NOT Warranted

RESET SHEET

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City of Vernon - Traffic Signal Warrant Analysis

Main Street (name)	34 Street	Direction (EW or NS)	NS	Road Authority:	City of Vernon
Side Street (name)	28 Avenue	Direction (EW or NS)	EW	City:	Vernon
Quadrant / Int #	39	Comments	2045 Background Traffic	Analysis Date:	2024 Nov 21, Thu
for Warrant Calculation Results, please hit 'Page Down'	CHECK SHEET			Count Date:	2024 May 23, Thu
				Date Entry Format:	

Lane Configuration		Excl LT	Th & LT	Through	Th+RT+LT	Th & RT	Excl RT	UpStream Signal (m)	# of Thru Lanes
34 Street	NB				1				1
34 Street	SB				1			125	1
28 Avenue	WB				1				
28 Avenue	EB				1				
Are the 28 Avenue WB right turns significantly impeded by through movements? (y/n)							n		
Are the 28 Avenue EB right turns significantly impeded by through movements? (y/n)							n		

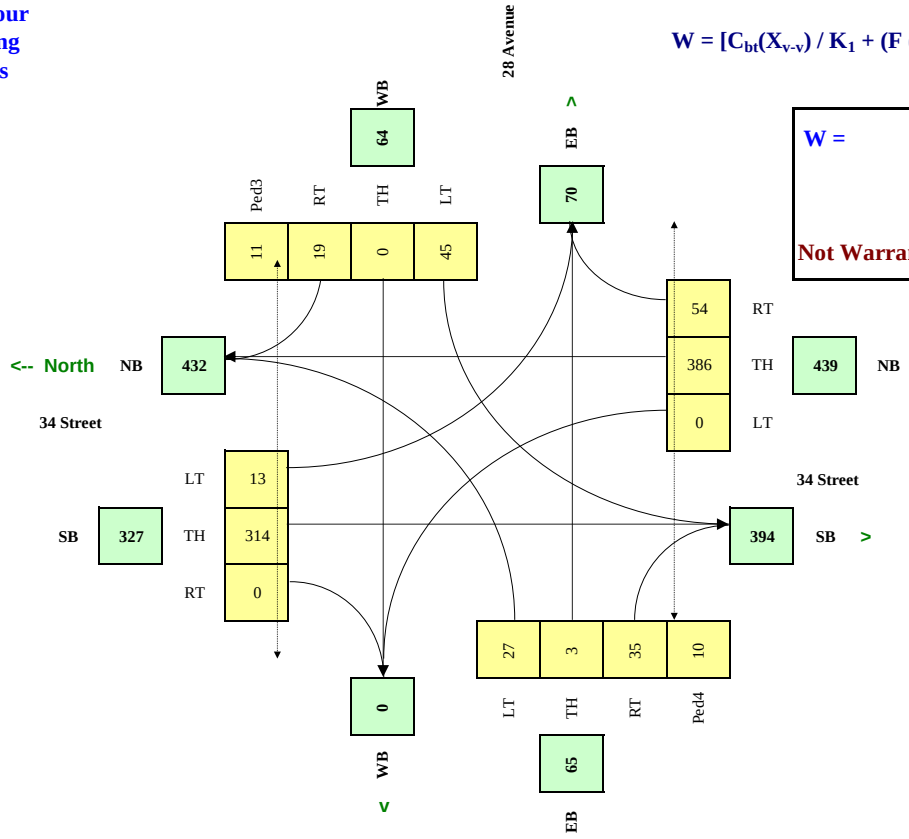
Demographics		
Elem. School/Mobility Challenged	(y/n)	n
Senior's Complex	(y/n)	n
Pathway to School	(y/n)	n
Metro Area Population	(#)	45,000
Central Business District	(y/n)	n

Other input		Speed (Km/h)	Truck %	Bus Rt (y/n)	Median (m)
34 Street	NS	50	2.0%	y	0.0
28 Avenue	EW		2.0%	n	

Set Peak Hours

Traffic Input	NB			SB			WB			EB			Ped1 NS	Ped2 NS	Ped3 EW	Ped4 EW
	LT	Th	RT	LT	Th	RT	LT	Th	RT	LT	Th	RT	W Side	E Side	N Side	S Side
6 Hour Traffic	0	2314	322	79	1884	0	268	0	114	161	20	211	169	107	65	62
Total (6-hour peak)	0	2,314	322	79	1,884	0	268	0	114	161	20	211	169	107	65	62
Average (6-hour peak)	0	386	54	13	314	0	45	0	19	27	3	35	28	18	11	10

Average 6-hour Peak Turning Movements



$$W = [C_{bt}(X_{v\text{-}v}) / K_1 + (F\,(X_{v\text{-}p})\,L) / K_2] \times C_i$$

W =	54	38	16
		Veh	*Ped*

Not Warranted - Vs<75

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