

## Signal Justification Calculation for Forecasted Volumes (OTM Book 12 - Justification 7)

Horizon Year: 2026 (Total Traffic)  
 Region/City/Township: Town of Halton Hills

Major Street: Steeles Avenue      North/South?: N  
 Minor Street: Sixth Line

Number of Approach Lanes: 2 or more  
 Tee Intersection?: Y  
 Flow Conditions: Free  
 PM Forecast Only? N

Warrant Results		
150% Satisfied	No	Justification for new intersections with forecast traffic
120% Satisfied	No	Justification for existing intersections with forecast traffic

Time Period	Major Street Steeles Avenue						Minor Street Sixth Line						Peds Crossing
	Eastbound			Westbound			Northbound			Southbound			
	Left	Through	Right	Left	Through	Right	Left	Through	Right	Left	Through	Right	
AM Peak Hour	50	1490	0	0	685	10	0	0	0	15	0	45	
PM Peak Hour	60	1130	0	0	1760	25	0	0	0	15	0	50	
Average Hourly Volume	28	655	0	0	611	9	0	0	0	8	0	24	0

Warrant	AHV
1A - All	1334
1B - Minor	31
2A - Major	1303
2B - Cross	8

### Warrant 1 - Minimum Vehicular Volume

Warrant	Approach Lanes	1		2 or more		Average Hourly Volume
		Free	Restricted	Free	Restricted	
1A	Flow Conditions			X		
	All Approaches	480	720	600	900	1334
		% Fulfilled				222.3%
1B	Flow Conditions			X		
	Minor Street Approaches	180	255	180	255	31
		% Fulfilled				17.4%

### Warrant 2 - Delay To Cross Traffic

Warrant	Approach Lanes	1		2 or more		Average Hourly Volume
		Free	Restricted	Free	Restricted	
2A	Flow Conditions			X		
	Major Street Approaches	480	720	600	900	1303
		% Fulfilled				217.1%
2B	Flow Conditions			X		
	Traffic Crossing Major Street	50	75	50	75	8
		% Fulfilled				15.0%

## Signal Justification Calculation for Forecasted Volumes (OTM Book 12 - Justification 7)

Horizon Year: 2026 (Total Traffic)  
 Region/City/Township: Town of Halton Hills  
 Major Street: Steeles Avenue  
 Minor Street: Sixth Line South/"Street A"

North/South?: N

Number of Approach Lanes: 2 or more  
 Tee Intersection?: N  
 Flow Conditions: Free  
 PM Forecast Only? N

Warrant Results		
150% Satisfied	Yes	Justification for new intersections with forecast traffic
120% Satisfied	Yes	Justification for existing intersections with forecast traffic

Time Period	Major Street Steeles Avenue						Minor Street Sixth Line South/"Street A"						Peds Crossing
	Eastbound			Westbound			Northbound			Southbound			
	Left	Through	Right	Left	Through	Right	Left	Through	Right	Left	Through	Right	
AM Peak Hour	240	1440	35	110	635	105	15	45	80	20	10	50	
PM Peak Hour	45	580	15	310	1280	45	30	40	125	165	155	180	
Average Hourly Volume	71	505	13	105	479	38	11	21	51	46	41	58	0

Warrant	AHV
1A - All	1439
1B - Minor	229
2A - Major	1210
2B - Cross	99

### Warrant 1 - Minimum Vehicular Volume

Warrant	Approach Lanes	1		2 or more		Average Hourly Volume
		Free	Restricted	Free	Restricted	
1A	Flow Conditions			X		1439
	All Approaches	480	720	600	900	1439
		% Fulfilled				239.8%
1B	Flow Conditions			X		229
	Minor Street Approaches	120	170	120	170	229
		% Fulfilled				190.6%

### Warrant 2 - Delay To Cross Traffic

Warrant	Approach Lanes	1		2 or more		Average Hourly Volume
		Free	Restricted	Free	Restricted	
2A	Flow Conditions			X		1210
	Major Street Approaches	480	720	600	900	1210
		% Fulfilled				201.7%
2B	Flow Conditions			X		99
	Traffic Crossing Major Street	50	75	50	75	99
		% Fulfilled				197.5%

## Signal Justification Calculation for Forecasted Volumes (OTM Book 12 - Justification 7)

Horizon Year: 2026 (Total Traffic)  
 Region/City/Township: Town of Halton Hills  
 Major Street: Steeles Avenue  
 Minor Street: Hornby Road

North/South?: N

Number of Approach Lanes: 2 or more  
 Tee Intersection?: Y  
 Flow Conditions: Free  
 PM Forecast Only? N

Warrant Results		
150% Satisfied	No	Justification for new intersections with forecast traffic
120% Satisfied	No	Justification for existing intersections with forecast traffic

Time Period	Major Street Steeles Avenue						Minor Street Hornby Road						Peds Crossing
	Eastbound			Westbound			Northbound			Southbound			
	Left	Through	Right	Left	Through	Right	Left	Through	Right	Left	Through	Right	
AM Peak Hour	60	1375	0	0	770	55	0	0	0	15	0	50	
PM Peak Hour	45	910	0	0	1570	35	0	0	0	60	0	90	
Average Hourly Volume	26	571	0	0	585	23	0	0	0	19	0	35	0

Warrant	AHV
1A - All	1259
1B - Minor	54
2A - Major	1205
2B - Cross	19

### Warrant 1 - Minimum Vehicular Volume

Warrant	Approach Lanes	1		2 or more		Average Hourly Volume
		Free	Restricted	Free	Restricted	
1A	Flow Conditions			X		1259
	All Approaches	480	720	600	900	1205
		% Fulfilled				209.8%
1B	Flow Conditions			X		54
	Minor Street Approaches	180	255	180	255	54
		% Fulfilled				29.9%

### Warrant 2 - Delay To Cross Traffic

Warrant	Approach Lanes	1		2 or more		Average Hourly Volume
		Free	Restricted	Free	Restricted	
2A	Flow Conditions			X		1205
	Major Street Approaches	480	720	600	900	1205
		% Fulfilled				200.8%
2B	Flow Conditions			X		19
	Traffic Crossing Major Street	50	75	50	75	19
		% Fulfilled				37.5%

## Signal Justification Calculation for Forecasted Volumes (OTM Book 12 - Justification 7)

Horizon Year: 2026 (Total Traffic)  
 Region/City/Township: Town of Halton Hills

Major Street: Trafalgar Road North/South?: Y  
 Minor Street: Hornby Road

Number of Approach Lanes: 1  
 Tee Intersection?: Y  
 Flow Conditions: Free  
 PM Forecast Only? N

Warrant Results		
150% Satisfied	Yes	Justification for new intersections with forecast traffic
120% Satisfied	Yes	Justification for existing intersections with forecast traffic

Time Period	Major Street Trafalgar Road						Minor Street Hornby Road						Peds Crossing
	Northbound			Southbound			Eastbound			Westbound			
	Left	Through	Right	Left	Through	Right	Left	Through	Right	Left	Through	Right	
AM Peak Hour	5	460	0	0	1895	310	80	0	10	0	0	0	0
PM Peak Hour	5	1545	0	0	570	155	325	0	10	0	0	0	0
Average Hourly Volume	3	501	0	0	616	116	101	0	5	0	0	0	0

Warrant	AHV
1A - All	1343
1B - Minor	106
2A - Major	1236
2B - Cross	101

### Warrant 1 - Minimum Vehicular Volume

Warrant	Approach Lanes	1		2 or more		Average Hourly Volume
		Free	Restricted	Free	Restricted	
1A	Flow Conditions	X				
	All Approaches	480	720	600	900	1343
		% Fulfilled				279.7%
1B	Flow Conditions	X				
	Minor Street Approaches	180	255	180	255	106
		% Fulfilled				59.0%

### Warrant 2 - Delay To Cross Traffic

Warrant	Approach Lanes	1		2 or more		Average Hourly Volume
		Free	Restricted	Free	Restricted	
2A	Flow Conditions	X				
	Major Street Approaches	480	720	600	900	1236
		% Fulfilled				257.6%
2B	Flow Conditions	X				
	Traffic Crossing Major Street	50	75	50	75	101
		% Fulfilled				202.5%

## Signal Justification Calculation for Forecasted Volumes (OTM Book 12 - Justification 7)

Horizon Year: 2026 (Total Traffic)  
 Region/City/Township: Town of Halton Hills

Major Street: Trafalgar Road      North/South?: Y  
 Minor Street: "Street B"

Number of Approach Lanes: 1  
 Tee Intersection?: N  
 Flow Conditions: Free  
 PM Forecast Only? N

Warrant Results		
150% Satisfied	Yes	Justification for new intersections with forecast traffic
120% Satisfied	Yes	Justification for existing intersections with forecast traffic

Time Period	Major Street Trafalgar Road						Minor Street "Street B"						Peds Crossing
	Northbound			Southbound			Eastbound			Westbound			
	Left	Through	Right	Left	Through	Right	Left	Through	Right	Left	Through	Right	
AM Peak Hour	50	420	280	95	1765	60	25	0	20	70	0	25	
PM Peak Hour	70	1320	145	50	515	85	115	0	100	340	0	115	
Average Hourly Volume	30	435	106	36	570	36	35	0	30	103	0	35	0

Warrant	AHV
1A - All	1416
1B - Minor	203
2A - Major	1214
2B - Cross	138

### Warrant 1 - Minimum Vehicular Volume

Warrant	Approach Lanes	1		2 or more		Average Hourly Volume
		Free	Restricted	Free	Restricted	
1A	Flow Conditions	X				
	All Approaches	480	720	600	900	1416
		% Fulfilled				295.1%
1B	Flow Conditions	X				
	Minor Street Approaches	120	170	120	170	203
		% Fulfilled				168.8%

### Warrant 2 - Delay To Cross Traffic

Warrant	Approach Lanes	1		2 or more		Average Hourly Volume
		Free	Restricted	Free	Restricted	
2A	Flow Conditions	X				
	Major Street Approaches	480	720	600	900	1214
		% Fulfilled				252.9%
2B	Flow Conditions	X				
	Traffic Crossing Major Street	50	75	50	75	138
		% Fulfilled				275.0%