WARRANTS FOR INTERSECTION LIGHTING											
LOCATION CHARACTERISTICS This spreadsheet; to be used in conjunction with Transportation Association of Canada 2006 "Guide for the Design of Readways", Ch. 10 "Intersections". (This Spreadsheet is derived from Figure 10-2) Kawartha Lakes											
Area: CKL Please enter information in the cells with yellow background Image: CKL CKU Please enter information in the cells with yellow background Image: CKL CKL Please enter information in the cells with yellow background Image: CKL CKL Please enter information in the cells with yellow background Image: CKL CKL Please enter information in the cells with yellow background Image: CKL											
		N				Site Details					
Intersection	Main Road: Cedar Glen Rd	Notes		(()	Po	sted Speed (km/h):		[Unposted		
	Minor Road: Creek Side (Private Rd)	Date (dd/mm/yyyy):			8/5/2022						
			Weight Subcatroory								
Item No.	Classification	Rating Facto			or(R)		(If Applicable)	Weight (W)	Rating (R)	Score (R x W)	
	GEOMETRIC FACTOR	S 0	1	2	3	4	Raised and Operating		(
1	Channelization	None	Right and/or Left Turn Lanes on Minor Approach Only	Right Turn Lane(s) Only on Major Leg(s)	Left Turn lane(s) on Major Leg(s)	Left and Right Turn	Speed Less than 70 km/h on at Least One Channelized Approach or	15.00		0.00	
	Grannoizaion					Lanes on All Legs	Speed Less than 70 km/h or More on at Least One Channelized Approach	25.00		0.00	
	Approach Sight Distance on the Most						Painted Only	5.00	0	0.00	
2	Constrained Approach (Relative to Recommended Minimum Intersection Sigh Distance)	100% or More	75% to 99%	50% to 74%	25% to 49%	< 25%		10.00	0	0.00	
	Horizontal Curvature (Radius) at or Immediately Before Intersection on Any Le for Posted Speed limit of:	3									
3	110 km/l	r: Tangent	>1800m	1150 to 1800m	750 to 1150m	<750m				0.00	
	90 or 100 km	h: Tangent	>1400m >950m	950 to 1400m	600 to 950m 340 to 550m	<600m	1	5.00	0		
	70 or 80 km/ 60 km/	h: Tangent	>575m	320 to 575m	190 to 320m	<190m					
4	Angle of Intersection or Offest Intersection	90 Degree Angle	80 or 100 Degree Angle		70 or 110 Degree Angle	<70 or >110 Degree or Offset Intersection		5.00	0	0.00	
5	Downhill Approach Grades at or Immediately Before Intersection on Any Leg	<3.0%	3.1 to 3.9% and Meets Design Guidelines for Type and Speed	4.0 to 4.9% and Meets Design Guidelines for Type and Speed	5.0 to 7.0% and Meets Design Guidelines for Type and Speed of	>7.0% OR Exceeds Maximum Gradiant for Type and Speed of		3.00	0	0.00	
6	Number of Lore		of Road	of Road	FUAU	Fudu 6 or Moro		3.00	1	3.00	
6	Number of Legs	5	o or more	Geometri	c Factors Subtotal:	3.	3.00				
OPERAT	ONAL FACTORS										
If the intersection is signalized, Illumination is Warranted											
	Fither	buid be Calculated on	the basis of ETTHE	R the AAD I of the	Signalizion warrant Facio	Sr.	1		l .		
	AADT(2-Way) (see note 1)										
	On Major Road AND	<1000	1000 to 2000	2000 to 3000	3000 to 5000	>5000		10.00	0	0.00	
	on Minor Road	<500	500 to 1000	1000 to 1500	1500 to 2000	>2000		20.00	1	20.00	
7	Signalization Warrant (see note 1)	Intersection Not Signalized and Volume-Based Signal Warrant is Less than 20% Satisfied	Intersection Not Signalized and Volume-Based Signal Warrant is Less than 20% to 40% Satisfied	Intersection Not Signalized and Volume-Based Signal Warrant is Less than 40% to 60% Satisfied	Intersection Not Signalized and Volume Based Signal Warrant is Less than 60% to 80% Satisfied	Intersection Not Signalized and Volume Based Signal Warrant is Less than Over 80% Satisfied		30.00		0.00	
8	Regular Nighttime Hourly	No Pedestrians	Up to 10	10 to 30	30 to 50	Over 50		10.00	0	0.00	
9	Intersection Roadway Classifications	No Primary Road Involved	Primary/Rural Major, Primary Rural Minor, or Primary/Designal ed Community Access	Primary/Seconda ry	Primary/Primary	Intersection Includes Divided Highway		5.00	0	0.00	
10	Operating Speed or Posted Speed limit on Minor Road (see note 3)	50 km/h or Less	60 km/h	70 km/h	80 km/h	90 km/h or Over		5.00	3	15.00	
11	Operating Speed or Posted Speed limit or Minor Road (see note 3)	50 km/h or Less	60 km/h	70 km/h	80 km/h	90 km/h or Over		5.00	0	0.00	
							Operationa	al Factors Subtotal:	35	.00	
ENG-C:											
ENVIRON	Lighted Development Within 150m Radium	or									
12	Intersection		in Une Quadrant	in Two Quadrant	in inree Quadrant	in ⊦our Quadrant		5.00	1	5.00	
							Environmenta	al Factors Subtotal:	5.	00	
COLLISION FACTORS											
Average Annual Nightlime Collision 13 Frequency (see note 4) or Rate over Last Three 0 Collisions per 1 Collision Per Year (Only Collisions Potentially Attributable Year Year —					3 or More Collisions Pe Collsions per Million En and an Average Ratio	er Year OR at Least 1.5 tering Vehicles per Year on of Ann Night-to_day	1 or 2 Collisions per Year 3 or More Collisions per Year or Rate >=	15.00 30.00	0	0.00	
If the intersection is not signalized, the user should choose EITHER the AADT factor OR the signalization						Complots of all Least 1.5. 1.5 Collisions/MEV					
factor. The points from either factor, but not both factors, may be used for the warrant point calculations.							Collisio	n Factors Subtotal:	0.	00	
2 The number of certain types of vulnerable pedestrians should be factored to reflect their increased need for visibility. The number of child pedestrains (age 21 and under) should be multiplied by two, and the number of senior pedestrains (age 65 and over) should be multiplied by 1.5. 3 S8th percentile nightfine speed shold be used, if avialable. Otherwise the posted speed may be used. 4 Reported collisions, rounded to the nearest whole number.						Total Warrant Pts (all factors): "(see note 5)				43.00	
b A mm score of 240 warrants tuil illumination, a min score of 120 warrants partial or delination lighting, refer to TAC guildines to see how score distribution affects lighting type											