

Appendix I

Evaluation Matrix

Criteria	Weight
Traffic Capacity & Operations	0.2
Safety of Intersection	0.2
Social & Natural Environment	0.1
Climate Change	0.1
Utility Relocation	0.2
Costs	0.2
Total	1

Scoring	Description
0	Nearly Infeasible. Very high risk.
1	Undesirable. High risk
2	Multiple mitigation measures required. Several risks
3	Some mitigation measures required. Some risks.
4	Feasible. Lower risk.
5	Feasible and desirable. Lowest risk.

INTERSECTION IMPROVEMENT ALTERNATIVES - EVALUATION MATRIX SCORING
HAMILTON ROAD & GORE ROAD INTERSECTION EA

Evaluation Criteria	Intersection Improvement Alternative Solutions			
	1	2	3	4
	Roundabout	Signalized Intersection A	Signalized Intersection B	Do Nothing
Traffic Capacity & Operations				
Can the alternatives manage the current and future traffic capacity?	4	2	3	1
Ability of the developable lands, as well as existing residential properties within the study area to be accessed, including driveway access	2	3	4	4
Sub Score	1.2	1	1.4	1
Safety of Intersection				
How does the alternative compare with respect to vehicular and driver safety?	4	3	2	1
How do the alternatives address active transportation (cyclists and pedestrians)?	3	3	2	1
Sub Score	1.4	1.2	0.8	0.4

Evaluation Criteria	Intersection Improvement Alternative Solutions			
	1	2	3	4
	Roundabout	Signalized Intersection A	Signalized Intersection B	Do Nothing
Social & Natural Environment				
How do the alternatives compare with respect to effects on vegetation, water quality, wildlife and aquatic habitat, wetlands, terrestrial resources, woodlands, species at risk?	2	3	3	4
How do the alternatives compare with respect to the Recreational User Experience and does the route: •Integrate with the existing bicycle lane? •Allow for neighborhood pathway connections to area neighborhoods, promoting an active lifestyle? •Meet safety design principles?	3	3	3	1
What impacts will the alternative have on the local community (e.g. noise, odour, traffic / parking, recreational facilities, trails, etc.)?	4	3	2	1
What are the anticipated impacts during construction (including maintaining through traffic)?	2	2	3	5
How will the alternative contribute/detract from the community aesthetic?	3	2	1	1
Sub Score	1.4	1.3	1.2	1.2
Climate Change				
How do the alternatives compare with respect to the emissions?	3	2	2	1
How do the alternatives compare with respect to storm water run off?	4	4	4	2
Sub Score	1.74	1.43	1.32	1.12

Evaluation Criteria	Intersection Improvement Alternative Solutions			
	1	2	3	4
	Roundabout	Signalized Intersection A	Signalized Intersection B	Do Nothing
Utility Relocation				
Overall impact on existing utilities, and constraints regarding relocation?	2	3	3	5
Sub Score	0.04	0.06	0.06	1
Costs				
How do the alternatives compare with respect to anticipated capital costs?	2	3	4	5
How do the alternatives compare with respect to anticipated operational and maintenance costs?	4	3	3	5
Sub Score	1.2	1.2	1.4	1.8
Total Score	7.34	6.73	6.72	6.52
Rank	1	2	3	4