

Presented To:	Traffic Committee	
Presented:	Monday, Aug 23, 2010	
Report Date	Tuesday, Aug 17, 2010	
Туре:	Managers' Reports	

Request for Decision

Traffic Calming Street Ranking

Recommendation

That the Traffic Committee approve the 2010 ranking list for Traffic Calming Eligible Roadways contained in the report from the General Manager of Infrastructure Services dated August 23, 2010;

And that Staff be directed to initiate the public support component for the Traffic Calming process based on the ranking order. Projects from lower in the ranking may be chosen to fully utilize the annual budget;

And that Staff be directed to receive final approval from Council for Traffic Calming projects prior to issuing tenders for construction;

And that Staff forward the results of the speed studies to the Greater Sudbury Police Services and request increased enforcement on roadways identified with speeding problems.

Finance Implications

The 2010 capital budget provides for \$150,000 related to traffic calming. Annual expenditures for traffic calming will be limited to the approved budget.

BACKGROUND

The City's Traffic and Transportation Engineering Section receives numerous requests each year to install Traffic Calming measures such as speed humps and traffic circles to reduce speeding and improve safety on its roadways. In February, 2008, the City of Greater Sudbury retained IBI Group to develop a Traffic Calming Policy to aid staff in evaluating requests and the application of Traffic Calming devices. This policy was permanently adopted by City Council on May 12, 2010. Council also directed staff to bring forward a list ranking the roadways that qualify for traffic calming based upon the approved policy.

What is Traffic Calming?

The institute of Transportation Engineering defines Traffic Calming as "the combination of mainly physical

Signed By

Report Prepared By Dave Kivi Co-ordinator of Transportation & Traffic Engineering Services *Digitally Signed Aug 17, 10*

Division Review Robert Falcioni, P.Eng. Director of Roads and Transportation Services Digitally Signed Aug 17, 10

Recommended by the Department Greg Clausen, P.Eng. General Manager of Infrastructure Services Digitally Signed Aug 17, 10

Recommended by the C.A.O. Doug Nadorozny Chief Administrative Officer Digitally Signed Aug 19, 10 measures that reduce the negative effects of motor vehicle use, alter driver behaviour and improve conditions for non motorized street users."

Traffic Calming Warrant

The City's Traffic Calming Warrant is based upon the review of the best practices of 24 jurisdictions throughout North America. In addition, public input was solicited through surveys posted on the City's website and at the Citizen Services Centres. Two (2) stakeholder workshops were also held with City departments and agencies including City Councillors, Police, Fire, EMS, Planning, Roads and Engineering.

The Traffic Calming Warrant consists of an initial screening where a combination of requirements must be met for a site to be eligible for Traffic Calming. The threshold criteria and screening process can be found in the attached Exhibits "A" and "B".

Sites that pass the initial screening are then ranked against each other using a weighted point criteria based on the classification of the road. Each eligible site is awarded points based on its score for each factor, with a maximum score of 100 points. A score of 30 points has been established as a minimum threshold to qualify for traffic calming consideration. The scoring criteria for local and collector roads is outlined in the attached Exhibit "C".

Initial Screening and Ranking of City of Greater Sudbury Roads

During the summer of 2009 and the spring of 2010, City staff collected collision and traffic data for all formally requested locations as well as a list of roads where the speed and volume of traffic is a frequent concern of residents. Roads in all 12 wards were selected for review to ensure that the policy was appropriate for all areas of the City. The initial screening process was completed for 138 road segments on 80 different roads. Of the 138 road segments reviewed, 40 qualified for the ranking process, and of these, 38 scored more than 30 points. As part of the final ranking process, any abutting road segments that scored greater than 30 points were combined into one segment and assigned the highest score, resulting in a total of 27 roadways. (see attached Exhibits "D" and "E").

The results of the studies shows that the initial screening criteria used in the Traffic Calming Policy is working well. Approximately 30 percent (30%) of road segments reviewed, qualified for Traffic Calming. The goal of the initial screening is to ensure that Traffic Calming is appropriate for the road section being reviewed.

Final Ranking

As indicated in the attached Exhibit "D", a total of 27 roadways qualify for Traffic Calming. Depending on the calming devices chosen and the length of the project, the City's Annual Traffic Calming of \$150,000 should be enough to complete one major roadway, similar in size to Southview Drive, or a couple of smaller projects per year.

In addition to the eligible roadways, Exhibit "D" shows the project length, preliminary cost estimate and indicates whether the road is a transit route or primary emergency services route. It is noted that the cost estimates may vary greatly depending on the devices preferred by the residents. For example, on a 1 km road, you could paint bike lanes for \$5,000 or construct physical devices for \$100,000. Also, roadways that are not transit routes or primary emergency service routes qualify for vertical traffic calming measures such as speed humps. Speed humps are not only effective in reducing vehicle speed but are also less expensive to construct than many other calming devices.

Also, roadways that are eligible for Traffic Calming and are not part of the Road Capital Program will have recommended traffic calming devices incorporated as part of the design and construction. Kathleen Street is an example of where Traffic Calming was incorporated as part of the capital contract.

Recommendations

As indicated in the Traffic Calming Policy, Council approval is required for a project or series of projects

prior to initiating the public support component. Staff recommends that Council approve the list ranking the eligible roadways. Based on approved budget limitations, staff will initiate the public support component in the order the roadways are ranked. However, some similar projects may be selected out of order to fully utilize the available capital budget.

Based on the time of year, and length of time needed to complete the public consultation component, actual construction of traffic calming devices will not occur until next year.

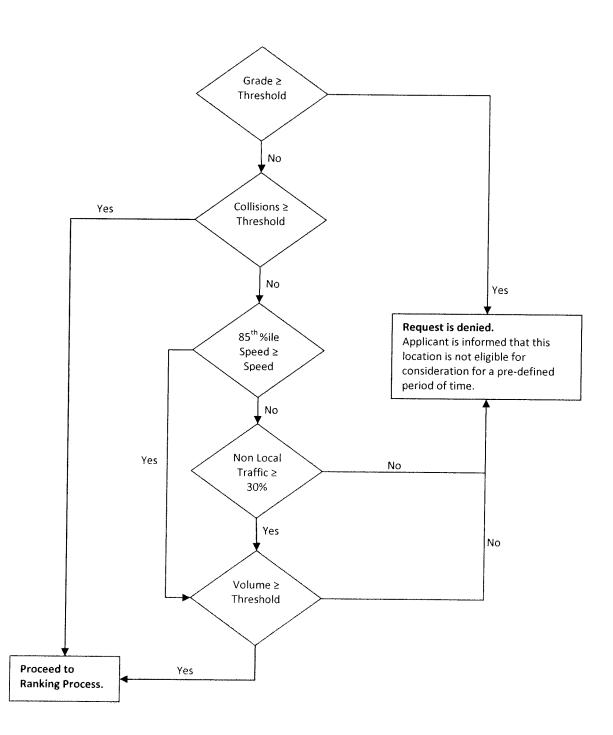
Prior to tendering, staff will obtain Council's approval for plans that have received the necessary public support. As indicated in the Traffic Calming Policy, if a request is rejected at any point in the process, the applicants and affected residents will be informed in writing, and Traffic Calming shall not be reconsidered for the same section of road for two years.

Many roads which did not pass the initial screening for traffic calming had 85th percentile speeds that exceeded the posted speed. City staff will compile a list of these roadways and forward it to Greater Sudbury Police Services to be considered for speed enforcement campaigns.

Traffic Calming Criteria

*		Threshold	
Criteria	Local Road	Collector/ Tertiary Arterial	Notes
Grade		< 8%	If the grade is equal to or greater than 8%, traffic calming is not permitted
Collision History	≥6	≥ 12	Number of collisions within the last three years involving vulnerable road users and/or which may be potentially corrected by traffic calming measures.
Volume	≥ 900 vpd	≥ 3,000 vpd (Collector) ≥ 5,000 vpd (Tertiary Arterial)	Two-way AADT volume
Speeds		≥ posted speed limit	85 th percentile speed
Non-Local Traffic		≥ 30%	'Cut-through traffic'

Screening Process



Scoring Criteria

Local Roads

Factor	Point Criteria	Maximum Points
Collision History	4 points for each qualifying collision in the past three years	20
Traffic Speeds	1 point for each km/h above posted speed limit	15
Non-Local Traffic	3 points for each 10% of non-local traffic above 20% (maximum reached at 60% non-local traffic)	15
Traffic Volumes	1 point for each 50 vehicles above 900	20
Pedestrian Generators	5 points for each school or park within the study area (other Pedestrian Generators may be defined by City staff)	10
Pedestrian Facilities	5 points if there are no sidewalks in the study area	5
Emergency Services and Routes	4 points if the study area is a primary Emergency Services route	0
Transit Services and Routes	2 points if the study area is an existing or planned transit route	0
Block Length	1 point for each 50 metre increment between stop-controlled points	10
Adjacent Land Uses (residential)	1 point for each 20% of residential land use	5
		100

Collector and Tertiary Arterial Roads

Factor	Point Criteria	Maximum Points
Collision History	3 points for each qualifying collision in the past three years	15
Traffic Speeds	1 point for each km/h above posted speed limit	20
Non-Local Traffic	2 points for each 10% of non-local traffic above 20% (maximum reached at 60% non-local traffic)	10
Traffic Volumes	1 point for each 100 vehicles above 3000 for Collector roads and 5000 for Tertiary Arterials	20
Pedestrian Generators	5 points for each school or park within the study area (other Pedestrian Generators may be defined by City staff)	10
Pedestrian Facilities	10 points if there are no sidewalks in the study area, 5 if only on one side	10
Emergency Services and Routes	6 points if the study area is a primary Emergency Services route	0
Transit Services and Routes	4 points if the study area is an existing or planned transit route	0
Block Length	1 point for each 50 metre increment between stop-controlled points	10
Adjacent Land Uses (residential)	1 point for each 20% of residential land use	5
		100

Traffic Calming Final Street Ranking - 2010

	Location	Score	I anoth (m)	Traneit or CC Bouton	
	1 Attlee Avenue (Lasaile Boulevard to Westmount Avenue)	77 8	1660	TIGHISH OF ES NUMER	
	2 Auger Avenue (Lasalle Routevard to Gemmell Street)		000	res	\$250,000
Ľ		/4.2	1000	Yes	\$150.000
1	A Muchalis Der Michell Street to Broadway Street)	74.2	960	Yes	\$145 000
1	4 Iniciteite Urive (MK 80 to Ivan Street)	71.6	1100	Yes	\$165,000
1	of Difference Unive (Moonrock Avenue to St Charles Lake Road)	69.8	1300	oz	\$195,000
	o Lansing Avenue (Lasalle Boulevard to Maley Drive)	63.4	1750	Yes	\$385 000
	/ I Grandview Boulevard (Montrose Avenue to Wedgewood Drive)	63.1	290	Yes	\$45.000
	8 Hildrest Urive (Brian Street to Mikkola Road)	63.0	710	Yes	\$110 000
1	9 Ludert's Road (Regent Street to Lo-Eilen Park School)	59.3	360	Yes	\$55 000
1	11 United and (Southview Drive to Copper Street)	59.3	490	Yes	\$75.000
	2015 LET C.	54.3	860	Yes	\$130.000
-10	12 Dublin Street (Attiee Avenue to Arthur Street)	50.3	540	No	\$85 000
	13 Robinson Drive (Kelly Lake Road to Southview Drive)	49,4	950	Yes	\$145 000
2	14 Balsam Street (Garrow Road to Nickel Street (East Leg))	49.1	1200	Yee	8180 000
2	15 Hawthorne Drive (Auger Avenue to Claudia Court (East Leg)	48.2	300	No	\$ 100,000 \$45,000
2	to Meenan Street (Dennie Street to Coulson Street)	47.4	330	ON	\$50,000
	1/ Vaileyview Road (Municipal Road 80 to L'Horizon Secondary School)	47.0	180		\$30,000
ω	18 Second Avenue (Highway 17 to Government Road)	30.8	040		000,004
5	19 Gemmell Street (Attlee Avenue to Downland Avenue)	0.00	040	Yes	\$145,000
20	20 Kathleen Street (CP Rail Crossing to Erood Dood)	34.2	200	No	\$30,000
5	21 Edward Avenue (Hishman 444 to Ectors Charter)	37.4	420	Comp	Completed 2010
18	Mondhine Avenue (Arigeneer Arie raicon Street)	37.3	570	Yes	\$90,000
16	23 Monkennie Avelue (Agincourt Avenue to Koy Avenue)	37.1	450	Yes	\$70.000
	24 Development is at the fight of the fight	35.6	380	Yes	\$60.000
16	25 Countries Street (brady Street to Kiverside Drive)	34.3	170	No	\$30,000
3 6	24) CUPPER SWEET (Martindale Koad to Zinc Street)	32.8	1300	Yes	\$195,000
315	27 Stoneouto Drive (Uniole Unive to Certifi Crescent)	32.6	660	Yes	\$100.000
1	An Journagare Drive (pearrice Urescent to Attlee Avenue)	31.7	250	No	\$40.000

Exhibit D - Traffic Calming Final Street Ranking - Traffic Calming Street Ranking 1/1

Road Segments Which Did Not Qualify

Location Algonquin Road (Trailridge Drive to Maurice Street)	Reason Segment is not Eligible
Arlington Drive West (Gilles Court to Gerard Avenue)	Volume Does Not Meet Minimum Requirements
Arnold Street (400 m west of Skyward Drive to Moonrock Avenue)	Non-Local Traffic & Volume Do Not Meet Minimum Requirements
Arnold Street (Barbara Street to Skyward Drive to Modified Avenue)	Volume Does Not Meet Minimum Requirements
Arnold Street (Regent Street to Barbara Street)	Volume Does Not Meet Minimum Requirements
Arnold Street (Skyward Drive to 400 m west of Skyward Drive)	Volume Does Not Meet Minimum Requirements Volume Does Not Meet Minimum Requirements
Balsam Street (Godfrey Drive to Garrow Road)	Non-Local Traffic & Volume Do Not Meet Minimum Requirements
Brebeuf Avenue (Kathleen Street to Tanguay Avenue)	Grade of Road is Greater Than 8%
Carl Street (Cote Boulevard to North End)	Speed & Volume Do Not Meet Minimum Requirements
Centennial Road (Lapointe Street to Centennial Arena)	Volume Does Not Meet Minimum Requirements
Church Street (Spruce Street to Falconbridge Highway)	Volume Does Not Meet Minimum Requirements
Church Street (Spruce Street to Pine Street)	Volume Does Not Meet Minimum Requirements
Colonial Court (Melbourne Street to Melbourne Street - East Leg)	Speed, Non-Local Traffic and Volume Do Not Meet Minimum Requirement
Colonial Court (Melbourne Street to Melbourne Street - West Leg)	Speed, Non-Local Traffic and Volume Do Not Meet Minimum Requirement
Copper Street (Kelly Lake Road to Zinc Street)	Non-Local Traffic & Volume Do Not Meet Minimum Requirements
Corsi Hill (Between Gold Street and Gemma Street)	Scored Less Than 30 Points in Ranking Process
Dell Street (Bruce Avenue to Boivin Avenue)	Volume Does Not Meet Minimum Requirements
Desmarais Road (MR 80 to Talon Street)	Volume Does Not Meet Minimum Requirements
Dugas Street (East Street to MR 80)	Volume Does Not Meet Minimum Requirements
dward Avenue (Falcon Street to Gaudette Street) Gateway Drive (Long Lake Road to Treeview Road)	Non-Local Traffic & Volume Do Not Meet Minimum Requirements
Satien Avenue (MR 80 to Francis Street)	Volume Does Not Meet Minimum Requirements
Germell Street (Barrydowne Road to Westmount Avenue)	Non-Local Traffic & Volume Do Not Meet Minimum Requirements
Gemmell Street (Downland Avenue to Barrydowne Road)	Volume Does Not Meet Minimum Requirements
Germell Street (Westmount Avenue to Auger Avenue)	Volume Does Not Meet Minimum Requirements Volume Does Not Meet Minimum Requirements
Sodfrey Drive (Balsam Street to Serpentine Street)	Non-Local Traffic & Volume Do Not Meet Minimum Requirements
Godfrey Drive (Power Street to Balsam Street)	Non-Local Traffic & Volume Do Not Meet Minimum Requirements
Sodfrey Drive (Serpentine Street to North End)	Non-Local Traffic & Volume Do Not Meet Minimum Requirements
andview Boulevard (Inglewood Court to Montrose Avenue)	Volume Does Not Meet Minimum Requirements
irandview Boulevard (Rideau Street to Inglewood Court)	Volume Does Not Meet Minimum Requirements
Greenwood Drive (Second Avenue to Bayridge Court)	Non-Local Traffic & Volume Do Not Meet Minimum Requirements
awthorne Drive (Attlee Avenue to Lynwood Drive)	Volume Does Not Meet Minimum Requirements
awthorne Drive (Beatrice Crescent to Attlee Avenue)	Volume Does Not Meet Minimum Requirements
awthorne Drive (Lynwood Drive to Barry Downe Road)	Scored Less Than 30 Points in Ranking Process
olland Road (Lamothe Street to Woodbine Avenue)	Non-Local Traffic & Volume Do Not Meet Minimum Requirements
Iolland Road (Sparks Street to Lamothe Street)	Non-Local Traffic & Volume Do Not Meet Minimum Requirements
loule Avenue (Arlington Drive to Riverside Drive)	Non-Local Traffic & Volume Do Not Meet Minimum Requirements
loule Avenue (Highway 144 to Arlington Drive)	Volume Does Not Meet Minimum Requirements
uction Avenue (Notre Dame Road to Laurin Street)	Volume Does Not Meet Minimum Requirements
eith Avenue (Edward Avenue to Pinellas Road)	Non-Local Traffic & Volume Do Not Meet Minimum Requirements Non-Local Traffic & Volume Do Not Meet Minimum Requirements
amothe Street (Holland Road to Leon Avenue)	Volume Does Not Meet Minimum Requirements
amothe Street (Paquette Street to Lansing Avenue)	Volume Does Not Meet Minimum Requirements
evesque Street (Bancroft Drive to Rheal Street)	Volume Does Not Meet Minimum Requirements
evesque Street (Rheal Street to Kingsway)	Volume Does Not Meet Minimum Requirements
lian Boulevard (Holland Road to Barry Downe Road)	Volume Does Not Meet Minimum Requirements
ncoln Crescent (Sellwood Avenue to Dennie Street)	Speed & Volume Do Not Meet Minimum Requirements
bach's Road (Lo-Ellen Park School to Oriole Drive)	Volume Does Not Meet Minimum Requirements
ong Lake Road (McFarlane Lake Road to Chief Lake Road)	Non-Local Traffic & Volume Do Not Meet Minimum Requirements
burdes Street (Van Horne Street and St. Raphael Street)	Non-Local Traffic & Volume Do Not Meet Minimum Requirements
ackenzie Street (Kathleen Street to Baker Street)	Volume Does Not Meet Minimum Requirements
adison Avenue (Gary Avenue to Sherwood Avenue)	Non-Local Traffic & Volume Do Not Meet Minimum Requirements
adison Avenue (Lansing Avenue to Gary Avenue)	Non-Local Traffic & Volume Do Not Meet Minimum Requirements
adison Avenue (Sherwood Avenue to Old Falconbridge Road)	Non-Local Traffic & Volume Do Not Meet Minimum Requirements
arie Avenue (MR 15 to Helene Street)	Volume Does Not Meet Minimum Requirements
arier Street (Notre Dame Street to MR 35)	Volume Does Not Meet Minimum Requirements
ont Adam Street (Between Cochrane Street and Sunrise Ridge Road) ont Adam Street (Between Sunrise Ridge Drive and Mountain Street)	Grade of Road is Greater Than 8%
phawin Avenue (Paris Street to Walford Road)	Grade of Road is Greater Than 8%
emi Road (MR 24 to Turner Road)	Non-Local Traffic & Volume Do Not Meet Minimum Requirements
emi Road (Mir 24 to Fullier Road)	Scored Less Than 30 Points in Ranking Process
emi Road (Turner Road to Santala Road)	Non-Local Traffic & Volume Do Not Meet Minimum Requirements
the Dame Avenue (Jules Street to Gravel Drive)	Non-Local Traffic & Volume Do Not Meet Minimum Requirements
tre Dame Avenue (St. Isidore Street to Jules Street)	Volume Does Not Meet Minimum Requirements Volume Does Not Meet Minimum Requirements
Veil Drive East (Margaret Street to Garson-Coniston Road)	Volume Does Not Meet Minimum Requirements Volume Does Not Meet Minimum Requirements
Neil Drive East (Penman Avenue to Margaret Street)	Volume Does Not Meet Minimum Requirements
Neil Drive West (Pilotte Road to Heino Road)	Non-Local Traffic & Volume Do Not Meet Minimum Requirements
quette Street (Lasalle Boulevard to Lamothe Street)	Volume Does Not Meet Minimum Requirements

Roland Street (Lauzon Avenue to Attlee Avenue)	Volume Does Not Meet Minimum Requirements
Roxborough Drive (Winchester Avenue to Laura Avenue)	Volume Does Not Meet Minimum Requirements
Roy Avenue (Lamothe Street to Lasalle Boulevard)	Volume Does Not Meet Minimum Requirements
Sixth Avenue (B Street to Maple Street)	Volume Does Not Meet Minimum Requirements
Sixth Avenue (Coronation Boulevard to MR 24)	Non-Local Traffic & Volume Do Not Meet Minimum Requirements
Sixth Avenue (Maple Street to Tenth Avenue)	Volume Does Not Meet Minimum Requirements
Sixth Avenue (MR 24 to B Street)	Volume Does Not Meet Minimum Requirements
Spruce Street (Gilman Street to Ethelbert Street)	Volume Does Not Meet Minimum Requirements
Spruce Street (Travers Street to Gilman Street)	Volume Does Not Meet Minimum Requirements
St. Agnes Street (Leo Street to Montée Principale)	Non-Local Traffic & Volume Do Not Meet Minimum Requirements
St. Agnes Street (Montcaim Street to Leo Street)	Non-Local Traffic & Volume Do Not Meet Minimum Requirements
St. Raphael Street (Lourdes Street to Howey Drive	Speed, Non-Local Traffic & Volume Do Not Meet Minimum Requirements
Sunnyside Road (Orange Road to Norma Street)	Traffic Calming is Not Typically Applied to Rural Roads
Talon Street (Desmarais Road to Tremblay Street)	Speed & Volume Do Not Meet Minimum Requirements
Telstar Avenue (Moonrock Avenue to Skyward Drive)	Volume Does Not Meet Minimum Requirements
Telstar Avenue (Regent Street to Skyward Drive)	Volume Does Not Meet Minimum Requirements
Third Avenue (Bancroft Drive to Kenwood Street)	Non-Local Traffic & Volume Do Not Meet Minimum Requirements
Third Avenue (Evergreen Street to First Avenue)	Volume Does Not Meet Minimum Requirements
Third Avenue (Kenwood Street to Kingsway)	Non-Local Traffic & Volume Do Not Meet Minimum Requirements
Third Avenue (Nickel Street to Evergreen Street)	Volume Does Not Meet Minimum Requirements
Tupper Street (Centennial Road to east end)	Speed, Non-Local Traffic & Volume Do Not Meet Minimum Requirements
Valleyview Road (L'Horizon Secondary School to Fournier Drive)	Volume Does Not Meet Minimum Requirements
Victoria Street (Regent Street to Eyre Street)	Speed, Non-Local Traffic & Volume Do Not Meet Minimum Requirements
Wembley Drive (Killarney Avenue to Winchester Avenue)	Non-Local Traffic & Volume Do Not Meet Minimum Requirements
Wembley Drive (Laura Avenue to Marion Street)	Non-Local Traffic & Volume Do Not Meet Minimum Requirements
Wembley Drive (Regent Street to Wellington Heights)	Non-Local Traffic & Volume Do Not Meet Minimum Requirements
Westmount Avenue (Barrydowne Road to Kingston Court)	Volume Does Not Meet Minimum Requirements
Westmount Avenue (Gemmell Street to Hawthorne Drive)	Volume Does Not Meet Minimum Requirements
Nestmount Avenue (Kingston Court to Gemmell Street)	Volume Does Not Meet Minimum Requirements
Northington Crescent (Marion Street to Ramsey Road)	Non-Local Traffic & Volume Do Not Meet Minimum Requirements
Northington Crescent (Riverside Road to Marion Street)	Non-Local Traffic & Volume Do Not Meet Minimum Requirements