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***EIGHTH MEETING OF THE TRAFFIC COMMITTEE  
TO BE HELD ON MAY 6, 2009 AT 3:30 P.M.  
IN COMMITTEE ROOM C-11, TOM DAVIES SQUARE***

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**DECLARATION OF PECUNIARY INTEREST AND THE GENERAL NATURE THEREOF.**

**REFERRED & DEFERRED ITEMS**

**PAGE NO.**

1. Report dated April 29, 2009 from the General Manager of Infrastructure Services regarding All-way Stops, Various Locations. **1 - 38**  
**(RECOMMENDATION PREPARED)**

(The report provides information regarding All-Way Stop requests at the intersections of Lamothe Street at Lincoln Road and Woodbine Avenue at Agincourt Avenue.)

**MANAGERS' REPORTS**

- R-1 Report dated April 21, 2009 from the General Manager of Infrastructure Services regarding Parking Restrictions - Kantola Road and Dopson Road, Walden. **39 - 42**  
**(RECOMMENDATION PREPARED)**

(This report recommends parking restrictions on Kantola Road and Dopson Road, Walden.)

- R-2 Report dated April 23, 2009 from the General Manager of Infrastructure Services regarding Pedestrian Countdown Timers. **43 - 45**  
**(RECOMMENDATION PREPARED)**

(This report provides a summary of the effectiveness of pedestrian countdown timers and recommends further expansion of the program.)

- R-3 Report dated April 17, 2009 from the General Manager of Infrastructure Services regarding Parking Restrictions - Davidson Street and Gary Avenue, Sudbury. **46 - 49**  
**(RECOMMENDATION PREPARED)**

(This report recommends that Traffic and Parking By-law 2001-1 include the existing parking restrictions on Davidson Street and Gary Avenue, Sudbury.)

**NEXT MEETING DATE**

**ADJOURNMENT (RECOMMENDATION PREPARED)**

**COMMITTEE MEMBERS**

Councillor Cimino  
Councillor Rivest  
Councillor Landry-Altmann

**DISTRIBUTION**

Mayor and Members of Council  
D. Nadorozny  
T. Beadman  
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A. Haché  
L. Oldridge

**LISA OLDRIDGE  
DEPUTY CITY CLERK**

**LIZ COLLIN  
PLANNING COMMITTEE SECRETARY**

# Request for Recommendation Traffic Committee



## Type of Decision

Meeting Date	May 6, 2009				Report Date	April 29, 2009			
Recommendation		Yes	<input checked="" type="checkbox"/>	No	Priority	<input checked="" type="checkbox"/>	High		Low
	Direction Only				Type of Meeting	<input checked="" type="checkbox"/>	Open		Closed

## Report Title

All-Way Stops - Various Locations

## Policy Implications + Budget Impact

This report and recommendation(s) have been reviewed by the Finance Division and the funding source has been identified

Background attached

## Recommendation

That All-Way Stop Control not be installed at the following intersections:

- 1) Lamothe Street at Lincoln Road
- 2) Woodbine Avenue at Agincourt Avenue

all in accordance with the report from the General Manager of Infrastructure Services, dated April 29, 2009.

Recommendation attached

## Recommended by the Department Head

Greg Clausen, P. Eng.  
General Manager of Infrastructure Services

## Recommended by the C.A.O.

Doug Nadorozny  
Acting Chief Administrative Officer

Date: April 29, 2009

**Report Authored By**



Dave Kivi, Coordinator of Transportation and Traffic Engineering Services

**Division Review**



Robert M. Falcioni, P. Eng  
Director of Roads and Transportation

**Background:**

At the Traffic Committee meeting held on February 12, 2009, the report dated January 30, 2009 from the General Manager of Infrastructure Services titled All-Way Stop Control - Various Locations was reviewed (see Exhibit "A"). At the request of Councillor Landry-Altmann, decisions regarding the intersections of Woodbine Avenue and Agincourt Avenue and Lamothe Street at Lincoln Road were deferred.

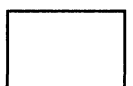
This report will provide an update and recommendation on the intersections that were deferred.

Lamothe Street at Lincoln Road

In 2008 there was one (1) collision reported at this intersection. Therefore, over the four (4) year period reviewed, there was a total on one (1) collision. While all collisions are undesirable, the collision experience would not be considered high, and does not show a pattern that could be corrected with an All-Way Stop.

Woodbine Avenue at Agincourt Avenue

A review of the City's collision information for 2008 revealed there were no collisions at the intersection of Woodbine Avenue at Agincourt Avenue. Therefore, over the four (4) year period reviewed, there was a total of one (1) collision. While all collisions are undesirable, the collision experience would not be considered high, and does not show a pattern that could be corrected with an All-Way Stop.



# Request for Recommendation Traffic Committee



## Type of Decision

Meeting Date	February 12, 2009			Report Date	January 30, 2009		
Recommendation	Yes	<input checked="" type="checkbox"/>	No	Priority	<input checked="" type="checkbox"/>	High	Low
	Direction Only			Type of Meeting	<input checked="" type="checkbox"/>	Open	Closed

## Report Title

All-Way Stops - Various Locations

### Policy Implications + Budget Impact

This report and recommendation(s) have been reviewed by the Finance Division and the funding source has been identified

Background attached

### Recommendation


That All-Way Stop Control not be installed at the following intersections:

- 1) Woodbine Avenue at Agincourt Avenue
- 2) Lamothe Street at Lincoln Road
- 3) Montee Rouleau Street and Laurent Street
- 4) Lansing Avenue at Melbourne Place
- 5) Lamothe Street at Prestige Place

all in accordance with the report from the General Manager of Infrastructure Services, dated January 30, 2009.

Recommendation attached

### Recommended by the Department Head

  
 Greg Clausen, P. Eng.  
 General Manager of Infrastructure Services

### Recommended by the C.A.O.

Douglas Nadorozny  
 Acting Chief Administrative Officer

Date: January 30, 2009

**Report Authored By**



Dave Kivi, Coordinator of Transportation and Traffic Engineering Services

**Division Review**



Robert M. Falcioni, P. Eng.  
Director of Roads and Transportation

**Background:**

On September 23, 2008, the Traffic Committee reviewed the report dated September 23, 2008 from the General Manager of Infrastructure Services regarding All-Way Stop Control - Various Intersections (see Exhibit "A"). The Traffic Committee recommended deferment of a number of intersections for various reasons outlined in the Deputy City Clerk's correspondence dated October 30, 2008 (see Exhibit "B").

This report will provide an update and recommendation on the intersections that were deferred.

New Collision Information

The Greater Sudbury Police Services (GSPS) was contacted to obtain more recent collision information at all twenty (20) intersections that were analysed for All-Way Stop Control using the new criteria approved by City Council. The GSPS was able to provide updated collision information from October 2007 to October 2008 that revealed a total of three (3) collisions occurred at all twenty (20) intersections combined. Two (2) of the three (3) collisions occurred at the intersection of Roy Avenue and Lamothe Street, and the third collision occurred at the intersection of Lamothe Street and Lincoln Road.

Roy Avenue and Lamothe Street

Based on the new collision information, the intersection of Roy Avenue and Lamothe Street has experienced a total of three (3) collisions during a four (4) year period. For a minor collector roadway, the new warrant for All-Way Stop Control requires a minimum of three (3) collisions per year over a three (3) year period for a total of at least nine (9) collisions. Therefore, an All-Way Stop is not warranted.

It is difficult to tell if the two (2) recent collisions are a result of a change in traffic patterns, or just isolated incidents. However, Council has recently approved the reduction of the speed limit on Roy Avenue from Lasalle Boulevard to Leon Avenue to 40 km/h, which should reduce operating speeds. The Traffic Committee has also recommended that Roy Avenue be reviewed under the Traffic Calming Policy. In addition to these measures, Staff can monitor the collisions at this intersection to ensure that a pattern of collisions that can be corrected does not continue.

Lamothe Street and Lincoln Road

Based on the new collision information, the intersection of Lamothe Street and Lincoln Road has had one (1) collision over a four (4) year period. While all collisions are undesirable, the collision experienced would not be considered high, and does not show a pattern that could be corrected with an All-Way Stop.



Date: January 30, 2009

**Background Continued:**

Traffic Calming Policy

At the meeting held on January 28, 2009, City Council approved the Traffic Calming Policy on a trial basis. The following intersections were deferred by the Traffic Committee on September 23, 2009 to be reviewed under the Traffic Calming Policy:

- 1) Dell Street at Bruce Avenue
- 2) Lillian Boulevard at Holland Road
- 3) Algonquin Road at Tuscany Trail/Trailridge Drive
- 4) Roy Avenue at Lamothe Street

Traffic Calming is reviewed on a road segment basis as opposed to a single intersection. Therefore, it is recommended that Dell Street, Lillian Boulevard, Algonquin Road and Roy Avenue be analysed and ranked as per the approved Traffic Calming Policy. Staff will report on the results of these locations and others requested by the end of 2009.

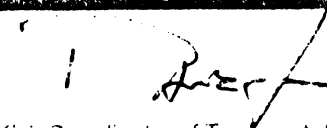




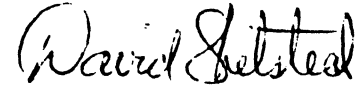


Date: September 23, 2008

**Report Authored By**

  
Dave Kivi, Coordinator of Transportation and Traffic,  
Engineering Services

**Division Review**

  
for Robert M. Falcioni, P. Eng.  
Director of Roads and Transportation

**Introduction:**

On May 7, 2008, the Traffic Committee approved a new modified warrant for determining the need for All-Way Stops. A copy of the Staff report can be found in Exhibit "A". The modified warrant significantly reduces the minimum vehicle and pedestrian volume thresholds for minor collector roads and local roads. Collision frequency requirements have also been reduced for these roadway classifications.

The new All-Way Stop Policy also states that "Only those intersections that satisfy the requirements for All-Way Stop control will be brought forward to the Traffic Committee for consideration". However, to deal with the numerous requests originating prior to the policy, and to see the effect of the new warrant, it was agreed that both warranted and unwarranted intersections would be brought back to the Traffic Committee.

The City's Transportation and Traffic Engineering Services Section has conducted an All-Way Stop review of 20 intersections throughout the City of Greater Sudbury that includes the three (3) classifications of roadways being arterial/major collectors, minor collectors and local roads. The following report will provide a brief description of each intersection and how the traffic volumes and collision information compare to the minimum warrants for All-Way Stop control. A summary of all the intersections reviewed can be found on the table in Exhibit "B". This table ranks the intersections by their classification and provides a comparison between the new warrant and the old warrant.

**Purpose of All-Way Stops:**

The purpose of an All-Way Stop is to alternate the right-of-way at an intersection. They can be an effective traffic control device when installed at busy intersections with similar traffic volumes and characteristics. However, All-Way Stops disrupt the flow of traffic and introduce delay to all drivers passing through the intersection. Therefore, they should only be installed when warranted.

Often time, All-Way Stops are requested by residents to slow traffic down on a roadway. Unfortunately, All-Way Stops are not effective as speed control devices. Studies have shown that speeds are only reduced in close proximity to the sign, and mid-block speeds actually increase after stop signs are installed as drivers attempt to make up for lost time. It is a common belief that All-Way Stops will increase safety at an intersection. Stop signs can reduce certain types of collisions such as right angle or turning types if they are prevalent at an intersection. However, the unwarranted installation of an All-Way Stop increases driver frustration, reduces compliance, and creates disrespect for stop signs. This behaviour can spread to other intersections where stop signs are required. The inappropriate use of All-Way Stops can decrease safety for pedestrians and cyclists, especially young children, as they expect drivers to actually stop at the sign.

All-Way stops are relatively inexpensive to install, which is one reason they are requested so often. However, they can greatly increase fuel consumption, noise, and air pollution due to the constant braking and acceleration that occurs. It has been reported that additional gasoline consumed from one (1) stop sign on a typical collector road is 25 litres per day or 9,125 litres per year.

Date: September 23, 2008

The Ministry of Municipal Affairs and Housing indicates that a typical four-way stop generates the following emissions on a yearly basis:

- 657 kg of Hydro Carbons
- 8,760 kg of Carbon Monoxide
- 675 kg of Nitrogen Oxide
- 65,700 kg of Carbon Dioxide

### **Arterial/Major Collector Roadways:**

#### **1) Martindale Road at Copper Street**

The City's Traffic and Transportation Engineering Services section received a request from the Councillor for Ward 1, Joe Cimino, to review the traffic control at the intersection of Martindale Road and Copper Street.

Martindale Road at Copper Street is a three legged intersection located three blocks south of Lorne Street (see Exhibit "C"). This intersection contains a sharp horizontal curve on Martindale Road and is part of a Greater Sudbury Transit route. Currently this intersection is controlled with a stop sign facing eastbound traffic on Copper Street.

Applying the data from the turning movement count that was conducted on June 11, 2008 to the Minimum Volume Warrant indicates that the side street volume from Copper Street meets 78% of the volume requirements. A review of the City's collision information from 2003 to 2005, inclusive, revealed that one collision that would be susceptible to relief through an All-Way Stop occurred during this three year period. For an Arterial/Major Collector roadway, the Collision Warrant requires a minimum of four collisions per year over a three year period.

Based on the traffic volumes and collision history, staff does not recommend installing an All-Way Stop at the intersection of Martindale Road and Copper Street. Should an All-Way Stop be installed at this intersection, staff recommends that the intersection be reconstructed to reduce Martindale Road to one lane of traffic in each direction. This will improve safety for pedestrians crossing Martindale Road.

#### **2) Kelly Lake Road at Copper Street**

The City's Traffic and Transportation Engineering Services section received a request from the Councillor for Ward 1, Joe Cimino, to review the traffic control at the intersection of Kelly Lake Road and Copper Street.

Kelly Lake Road at Copper Street is a three legged intersection located approximately one kilometer south of the Lorne Street (see Exhibit "C"). This intersection is part of a Greater Sudbury Transit route. Currently this intersection is controlled with a stop sign facing westbound traffic on Copper Street.

Date: September 23, 2008

## **2) Kelly Lake Road at Copper Street - (continued)**

Applying the data from the turning movement count that was conducted on June 11, 2008 to the Minimum Volume Warrant indicates that the traffic split between Kelly Lake Road and Copper Street meets 50% of the volume requirements. A review of the City's collision information from 2003 to 2005, inclusive, revealed that there were no collisions that would be susceptible to relief through an All-Way Stop during this three year period. For an Arterial/Major Collector roadway, the Collision Warrant requires a minimum of four collisions per year over a three year period.

Based on the traffic volumes and collision history, staff does not recommend installing an All-Way Stop at the intersection of Kelly Lake Road and Copper Street.

## **3) Lansing Avenue at Melbourne Street**

The City's Traffic and Transportation Engineering Services section received a petition from area residents to install an All-Way Stop at the intersection of Lansing Avenue at Melbourne Street.

Lansing Avenue at Melbourne Street is a four legged intersection located two blocks north of Lasalle Boulevard (see Exhibit "D"). This intersection is part of a Greater Sudbury Transit route. Currently this intersection is controlled with a stop sign facing westbound and eastbound traffic on Melbourne Street.

Applying the data from the turning movement count that was conducted on June 30, 2008 to the Minimum Volume Warrant indicates that the side street volume from Melbourne Street meets 25% of the volume requirements. A review of the City's collision information from 2003 to 2005, inclusive, revealed that there was one collision that may be susceptible to relief through an All-Way Stop during this three year period. While all collisions are undesirable, the collision experience would not be considered high, and does not show a pattern that could be corrected with an All-Way Stop. For an Arterial/Major Collector roadway, the Collision Warrant requires a minimum of four collisions per year over a three year period.

Based on the traffic volumes and collision history, staff does not recommend installing an All-Way Stop at the intersection of Lansing Avenue and Melbourne Street.

## **4) Kathleen Street at Bessie Avenue**

The City's Traffic and Transportation Engineering Services section received a request from an area business owner to install an All-Way Stop at the intersection of Kathleen Street at Bessie Avenue.

Kathleen Street at Bessie Avenue is a four legged intersection located less than 200 metres east of Frood Road (see Exhibit "E"). The north and south legs of Bessie Avenue are offset where they intersect Kathleen Street. Currently this intersection is controlled with stop signs facing northbound and southbound traffic on Bessie Avenue.

Date: September 23, 2008

#### **4) Kathleen Street at Bessie Avenue - (continued)**

Applying the data from the turning movement count that was conducted on July 30, 2008 to the Minimum Volume Warrant indicates that this intersection meets 23% of the volume requirements. A review of the City's collision information from 2003 to 2005, inclusive, revealed that there were no collisions that would be susceptible to relief through an All-Way Stop during this three year period. For an Arterial/Major Collector roadway, the Collision Warrant requires a minimum of four collisions per year over a three year period.

Based on the traffic volumes, collision history, and the offset of Bessie Avenue, staff does not recommend installing an All-Way Stop at the intersection of Kathleen Street and Bessie Avenue.

#### **Minor Collector Roadways:**

##### **5) Leslie Street at Mont Adam Street**

The City's Traffic and Transportation Engineering Services section received a request from area residents to review the traffic control at the intersection of Leslie Street and Mont Adam Street due to safety concerns.

Leslie Street at Mont Adam Street is a three legged intersection located two blocks east of Notre Dame Avenue (see Exhibit "E"). Visibility on the northeast corner is restricted due to a Canada Post mailboxes installed in the sight triangle and parked vehicles along Leslie Street. Currently this intersection is controlled with a stop sign facing westbound traffic on Mont Adam Street.

Applying the data from the turning movement count that was conducted on July 4, 2007 to the Minimum Volume Warrant indicates that this intersection meets the new minimum volume requirements. A review of the City's collision information from 2003 to 2005, inclusive, revealed that there were no collisions that would be susceptible to relief through an All-Way Stop during this three year period. For a Minor Collector roadway, the Collision Warrant requires a minimum of three collisions per year over a three year period.

Based on the existing traffic volumes, staff recommends installing an All-Way Stop at the intersection of Leslie Street at Mont Adam Street.

##### **6) Dell Street at Bruce Avenue**

The City's Traffic and Transportation Engineering Services section received a request from the Councillor for Ward 12, Joscelyne Landry-Altman, to review the traffic control at the intersection of Dell Street and Bruce Avenue.

Date: September 23, 2008

#### **6) Dell Street at Bruce Avenue - (continued)**

Dell Street at Bruce Avenue is a four legged intersection located between Notre Dame Avenue and Froad Road (see Exhibit "E"). Queen Elizabeth Public School is situated on the northeast corner of this intersection. Visibility on the southwest corner is restricted due to a large fence that has been constructed in the sight triangle. This intersection is also part of a Greater Sudbury Transit route. An All-Way Stop is currently installed at the Dell Street and Melvin Avenue/Snowdown Avenue intersection which is less than 150 metres from the subject intersection. Currently this intersection is controlled with Stop signs facing northbound and southbound traffic on Bruce Avenue.

Applying the data from the turning movement count that was conducted on June 12, 2008 to the Minimum Volume Warrant indicates that the side street volume from Bruce Avenue meets 79% of the volume requirements. A review of the City's collision information from 2003 to 2005, inclusive, revealed that there was one collision that may be susceptible to relief through an All-Way Stop during this three year period. While all collisions are undesirable, the collision experience would not be considered high, and does not show a pattern that could be corrected with an All-Way Stop. For a Minor Collector roadway, the Collision Warrant requires a minimum of three collisions per year over a 3 year period.

Based on the traffic volumes, collision history, and the close proximity to the Dell Street and Melvin Street/Snowdown Avenue intersection, staff does not recommend installing an All-Way Stop at the intersection of Dell Street at Bruce Avenue. Staff has advised the By-Law department of the fence that was constructed in the sight triangle.

#### **7) Lillian Boulevard at Holland Road**

The City's Traffic and Transportation Engineering Services section received a request from the Councillor for Ward 12, Joscelyne Landry-Altman, to review the traffic control at the intersection of Lillian Boulevard and Holland Road.

Lillian Boulevard at Holland Road is a three legged intersection located two blocks west of Barry Downe Road (see Exhibit "D"). This intersection is part of a Greater Sudbury Transit route. Currently this intersection is controlled with a yield sign facing northbound traffic on Holland Road.

Applying the data from the turning movement count that was conducted on February 20, 2007 to the Minimum Volume Warrant indicates that the side street volume from Holland Road meets 71% of the volume requirements. A review of the City's collision information from 2003 to 2005, inclusive, revealed that there were no collisions that would be susceptible to relief through an All-Way Stop during this three year period. For a Minor Collector roadway, the Collision Warrant requires a minimum of three collisions per year over a 3 year period.

Based on the traffic volumes and collision history, staff does not recommend installing an All-Way Stop at the intersection of Lillian Boulevard and Holland Road. While sight lines are good, staff has no objection to changing the existing yield sign on Holland Road to a stop sign.

Date: September 23, 2008

### **8) Montee Rouleau at St. Laurent Street**

The City's Traffic and Transportation Engineering Services section received a request from the Ward 4 Councillor, Evelyn Dutrisac, to review the traffic control at the intersection of Montee Rouleau and St. Laurent Street.

Montee Rouleau at St. Laurent Street is a four legged intersection located east of Municipal Road 15 (see Exhibit "F"). Visibility on the southwest corner is restricted due to a large tree that has grown in the sight triangle. Currently this intersection is controlled with stop signs facing eastbound and westbound traffic on St. Laurent Street.

Applying the data from the turning movement count that was conducted on June 12, 2008 to the Minimum Volume Warrant indicates that the side street volume from St. Laurent Street meets 70% of the volume requirements. A review of the City's collision information from 2003 to 2005, inclusive, revealed that there were two collisions that may be susceptible to relief through an All-Way Stop during this three year period. While all collisions are undesirable, the collision experience would not be considered high, and does not show a pattern that could be corrected with an All-Way Stop. For a Minor Collector roadway, the Collision Warrant requires a minimum of three collisions per year over a 3 year period.

Based on the traffic volumes and collision history, staff does not recommend installing an All-Way Stop at the intersection of Montee Rouleau and St. Laurent Street. Staff noted that the total vehicle volume at this intersection has increased to 366 vehicles during the four peak hours in 2008 from 184 vehicles during the four peak hours in 2003. This increase in traffic volumes is likely due to construction on Municipal Road 15 and Municipal Road 80. However, staff will perform an additional count at this intersection in the spring of 2009 to ensure that the increased traffic volume is not due to growth in the area.

### **9) Algonquin Road at Tuscany Trail/Trailridge Drive**

The City's Traffic and Transportation Engineering Services section received a request from area residents to review the traffic control at the intersection of Algonquin Road and Tuscany Trail/Trailridge Drive due to safety concerns.

Algonquin Road at Tuscany Trail/Trailridge Drive is a four legged intersection located one block east of the Algonquin Road at Countryside Drive intersection (see Exhibit "G"). This intersection is part of a Greater Sudbury Transit route. Currently this intersection is controlled with Stop signs facing northbound traffic on Tuscany Trail and southbound traffic on Trailridge Drive.

Applying the data from the turning movement count that was conducted on May 6, 2008 to the Minimum Volume Warrant indicates that the side street volume from Tuscany Trail and Trailridge Drive meets 62% of the volume requirements. A review of the City's collision information from 2003 to 2005, inclusive, revealed that there were no collisions that would be susceptible to relief through an All-Way Stop during this three year period. For a Minor Collector roadway, the Collision Warrant requires a minimum of three collisions per year over a three year period.

Date: September 23, 2008

**9) Algonquin Road at Tuscany Trail/Trailridge Drive - (continued)**

Based on the traffic volumes and collision history staff does not recommend installing an All-Way Stop at the intersection of Algonquin Road and Tuscany Trail/Trailridge Drive.

**10) Woodbine Avenue at Agincourt Avenue**

The City's Traffic and Transportation Engineering Services section received a request from the Councillor for Ward 12, Joscelyne Landry-Altman, to review the traffic control at the intersection of Woodbine Avenue and Agincourt Avenue.

Woodbine Avenue at Agincourt Avenue is a three legged intersection located four blocks west of Barry Downe Road (see Exhibit "D"). An All-Way Stop is installed at the intersection of Woodbine Avenue and Beaumont Avenue/Abigail Court which is located less than 200 metres west of the subject intersection. Currently this intersection is controlled with a stop sign facing southbound traffic on Agincourt Avenue.

Applying the data from the turning movement count that was conducted on June 13, 2008 to the Minimum Volume Warrant indicates that the side street volume on Agincourt Avenue meets 55% of the volume requirements. A review of the City's collision information from 2003 to 2005, inclusive, revealed that there was one collision that may be susceptible to relief through an All-Way Stop during this three year period. While all collisions are undesirable, the collision experience would not be considered high, and does not show a pattern that could be corrected with an All-Way Stop. For a Minor Collector roadway, the Collision Warrant requires a minimum of three collisions per year over a three year period.

Based on the traffic volumes and collision history, staff does not recommend installing an All-Way Stop at the intersection of Woodbine Avenue and Agincourt Avenue.

**11) Roy Avenue at Lamothe Street**

The City's Traffic and Transportation Engineering Services section received a request from the Councillor for Ward 12, Joscelyne Landry-Altman, to review the traffic control at the intersection of Roy Avenue and Lamothe Street.

Roy Avenue at Lamothe Street is a four legged intersection located two blocks north of Lasalle Boulevard (see Exhibit "D"). This intersection is part of a Greater Sudbury Transit route and Carl A. Nesbitt Public School is situated on the southwest corner of this intersection. Currently this intersection is controlled with Stop signs facing eastbound and westbound traffic on Lamothe Street.

Date: September 23, 2008

**11) Roy Avenue at Lamothe Street - (continued)**

Applying the data from the turning movement count that was conducted on June 12, 2008 to the Minimum Volume Warrant demonstrates that the side street volume from Lamothe Street meets only 48% of the volume requirements. A review of the City's collision information from 2003 to 2005, inclusive, revealed that there was one collision that may be susceptible to relief through an All-Way Stop during this three year period. While all collisions are undesirable, the collision experience would not be considered high, and does not show a pattern that could be corrected with an All-Way Stop. For a Minor Collector roadway, the Collision Warrant requires a minimum of three collisions per year over a three year period.

Based on the traffic volumes and collision history, staff does not recommend installing an All-Way Stop at the intersection of Roy Avenue and Lamothe Street.

**12) St. Charles Lake Road at Brenda Drive/Wayne Road**

The City's Traffic and Transportation Engineering Services section received a request from area residents to review the traffic control at the intersection of St. Charles Lake Road and Brenda Drive/Wayne Road due to safety concerns.

St. Charles Lake Road at Brenda Drive at Wayne Road is a four legged intersection located less than 100 metres west of the Long Lake Road and St. Charles Lake Road traffic control signals (see Exhibit "G"). Brenda Drive and Wayne Road are offset from one another when they intersect St. Charles Lake Road. Currently this intersection is controlled with a Stop sign facing southbound traffic on Brenda Drive and northbound traffic on Wayne Road.

Applying the data from the turning movement count that was conducted on August 22, 2008 to the Minimum Volume Warrant indicates that the total vehicle volume from all of the approaches meets only 48% of the volume requirements. A review of the City's collision information from 2003 to 2005, inclusive, revealed that there were no collisions that would be susceptible to relief through an All-Way Stop during this three year period. For a Minor Collector roadway, the Collision Warrant requires a minimum of three collisions per year over a three year period.

Based on the traffic volumes and collision history, staff does not recommend installing an All-Way Stop at the intersection of St. Charles Lake Road and Brenda Drive/Wayne Road.

**13) Third Avenue at Highgate Road**

The City's Traffic and Transportation Engineering Services section received a request from area residents to review the traffic control at the intersection of Third Avenue and Highgate Road.

Third Avenue at Highgate Road is a three legged intersection located two blocks south of the Kingsway (see Exhibit 'H'). This intersection is part of a Greater Sudbury Transit route. Currently this intersection is controlled with a stop sign facing eastbound traffic on Highgate Road.



Date: September 23, 2008

**13) Third Avenue at Highgate Road - (continued)**

Applying the data from the turning movement count that was conducted on July 23, 2008 to the Minimum Volume Warrant indicates that the side street volume from Highgate Road meets only 22% of the volume requirements. A review of the City's collision information from 2003 to 2005, inclusive, revealed that there were no collisions that would be susceptible to relief through an All-Way Stop during this three year period. For a Minor Collector roadway, the Collision Warrant requires a minimum of three collisions per year over a three year period.

Based on the traffic volumes and collision history, staff does not recommend installing an All-Way Stop at the intersection of Third Avenue and Highgate Road.

**14) Lamothe Street at Prestige Place**

The City's Traffic and Transportation Engineering Services section received a request from the Councillor for Ward 8, Ted Callaghan, to review the traffic control at the intersection of Lamothe Street and Prestige Place.

Lamothe Street at Prestige Place is a three legged intersection located two blocks north of Lasalle Boulevard (see Exhibit "D"). This intersection is part of a Greater Sudbury Transit route and an All-Way Stop is installed at the intersection of Lamothe Street and Paquette Street which is located 200 metres west of the subject intersection. Currently this intersection is controlled with a Stop sign facing northbound traffic on Prestige Place.

Applying the data from the turning movement count that was conducted on February 28, 2007 to the Minimum Volume Warrant indicates that the side street volume from Prestige Place meets only 12% of the volume requirements. A review of the City's collision information from 2003 to 2005, inclusive, revealed that there were no collisions that would be susceptible to relief through an All-Way Stop during this three year period. For a Minor Collector roadway, the Collision Warrant requires a minimum of three collisions per year over a three year period.

Based on the traffic volumes and collision history, staff does not recommend installing an All-Way Stop at the intersection of Lamothe Street and Prestige Place.

**15) Third Avenue North at School Street**

The City's Traffic and Transportation Engineering Services section received a request from the Councillor for Ward 3, Claude Berthiaume, to review the traffic control at the intersection of Third Avenue North at School Street due to safety concerns.

Third Avenue North at School Street is a four legged intersection located four blocks west of Municipal Road 8 (see Exhibit 'I'). The Levack Estates Subdivision will be constructed on the southwest corner of the intersection. Currently this intersection is controlled with a Stop sign facing northbound and southbound traffic on School Street.

Date: September 23, 2008

**15) Third Avenue North at School Street - (continued)**

Applying the data from the turning movement count that was conducted on August 29, 2008 to the Minimum Volume Warrant indicates that the side street volume from School Street meets only 11% of the volume requirements. A review of the City's collision information from 2003 to 2005, inclusive, revealed that there were no collisions that would be susceptible to relief through an All-Way Stop during this three year period. For a Minor Collector roadway, the Collision Warrant requires a minimum of three collisions per year over a three year period.

Based on the traffic volumes and collision history, staff does not recommend installing an All-Way Stop at the intersection of Third Avenue North and School Street. Staff was also informed by area residents that traffic volumes are heavier at 6:30 AM and 6:30 PM due to shift change at the local mines. While these times are outside of our normal count periods, due to the low traffic volumes, staff does not recommend recounting the intersection.

**Local Roadways:**

**16) Greenbriar Road at Scarlett Road**

The City's Traffic and Transportation Engineering Services section received a request from area residents to review the traffic control at the intersection of Greenbriar Road at Scarlett.

Greenbriar Road at Scarlett Road is a three legged intersection located two blocks east of Second Avenue (see Exhibit "H"). This intersection is part of a Greater Sudbury Transit route. Currently this intersection is controlled with stop signs facing northbound and southbound traffic on Greenbriar Road which is not a standard form of traffic control at this type of intersection.

Applying the data from the turning movement count that was conducted on May 21, 2008 to the Minimum Volume Warrant indicates that the total vehicle volume from all of the approaches meets 57% of the volume requirements. A review of the City's collision information from 2003 to 2005, inclusive, revealed that there were no collisions that would be susceptible to relief through an All-Way Stop during this three year period. For a Local roadway, the Collision Warrant requires a minimum of two collisions per year over a three year period.

Based on the traffic volumes and collision history, staff does not recommend installing an All-Way Stop at the intersection of Greenbriar Road and Scarlett Road.

Date: September 23, 2008

### **17) Corsi Hill at Gemma Street**

The City's Traffic and Transportation Engineering Services section received a request from the Councillor for Ward 1, Joe Cimino, to review the traffic control at the intersection of Corsi Hill at Gemma Street.

Corsi Hill at Gemma Street is a three legged intersection located three blocks east of Kelly Lake Road (see Exhibit "C"). Currently this intersection is controlled with a stop sign facing northbound traffic on Gemma Street.

Applying the data from the turning movement count that was conducted on July 19, 2007 to the Minimum Volume Warrant indicates that the total vehicle volume from all of the approaches meets only 46% of the volume requirements. A review of the City's collision information from 2003 to 2005, inclusive, revealed that there were no collisions that would be susceptible to relief through an All-Way Stop during this three year period. For a Local roadway, the Collision Warrant requires a minimum of two collisions per year over a three year period.

Based on the traffic volumes and collision history, staff does not recommend installing an All-Way Stop at the intersection of Corsi Hill and Gemma Street.

### **18) Meehan Avenue at Coulson Street**

The City's Traffic and Transportation Engineering Services section received a request from the Councillor for Ward 7, Russ Thompson, to review the traffic control at the intersection of Meehan Avenue and Coulson Street due to a recent collision.

Meehan Avenue at Coulson Street is a four legged intersection located one block east of Municipal Road 84 (see Exhibit "J"). The Capreol Community Centre and the Capreol Arena are situated on the southwest corner of the intersection. There is an existing All-Way Stop installed at the intersection of Hanna Avenue and Meehan Avenue which is located less than 150 metres east of the subject intersection. Currently this intersection is controlled with stop signs facing northbound and southbound traffic on Coulson Street.

Applying the data from the turning movement count that was conducted on December 11, 2007 to the Minimum Volume Warrant indicates that the total vehicle volume from all of the approaches meets only 43% of the volume requirements. A review of the City's collision information from 2003 to 2005, inclusive, revealed that there was one collision that may be susceptible to relief through an All-Way Stop during this three year period. While all collisions are undesirable, the collision experience would not be considered high, and does not show a pattern that could be corrected with an All-Way Stop. For a Local roadway, the Collision Warrant requires a minimum of two collisions per year over a three year period.

Based on the traffic volumes and collision history, staff does not recommend installing an All-Way Stop at the intersection of Meehan Avenue and Coulson Street.

Date: September 23, 2008

### **19) Lamothe Street at Lincoln Road**

The City's Traffic and Transportation Engineering Services section received a request from the Councillor for Ward 12, Joscelyne Landry-Altman to review the traffic control at the intersection of Lamothe Street and Lincoln Road.

Lamothe Street at Lincoln Road is a four legged intersection located one block west of Barry Downe Road (see Exhibit "D"). There is an existing All-Way Stop installed at the intersection of Lamothe Street and Holland Road which is located 100 metres west of the subject intersection. Currently this intersection is controlled with stop signs facing eastbound and westbound traffic on Lamothe Street.

Applying the data from the turning movement count that was conducted on February 28, 2007 to the Minimum Volume Warrant indicates that the total vehicle volume from all of the approaches meets only 29% of the volume requirements. A review of the City's collision information from 2003 to 2005, inclusive, revealed that there were no collisions that would be susceptible to relief through an All-Way Stop during this three year period. For a Local roadway, the Collision Warrant requires a minimum of two collisions per year over a three year period.

Based on the traffic volumes, collision history and the close proximity to the Lamothe Street at Holland Road All-Way Stop, staff does not recommend installing an All-Way Stop at the intersection of Lamothe Street and Lincoln Road.

### **20) Rheal Street at Donald Street**

The City's Traffic and Transportation Engineering Services section received a request from area residents to review the traffic control at the intersection of Rheal Street at Donald Street due to the increased traffic from the new Moonlight Ridge subdivision being built.

Rheal Street at Donald Street is a three legged intersection located two blocks south of the Kingsway (see Exhibit "H"). Currently this intersection is controlled with a stop sign facing southbound traffic on Donald Street.

Applying the data from the turning movement count that was conducted on July 18, 2008 to the Minimum Volume Warrant indicates that the total vehicle volume from all of the approaches meets only 23% of the volume requirements. A review of the City's collision information from 2003 to 2005, inclusive, revealed that there were no collisions that would be susceptible to relief through an All-Way Stop during this three year period. For a Local roadway, the Collision Warrant requires a minimum of two collisions per year over a three year period.

Based on the traffic volumes and collision history, staff does not recommend installing an All-Way Stop at the intersection of Rheal Street and Donald.

Request for Recommendation  
Traffic Committee



Type of Decision									
Meeting Date	May 7, 2008				Report Date	April 30, 2008			
Recommendation	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/>	No	Priority	<input checked="" type="checkbox"/>	High	<input type="checkbox"/>	Low
	Direction Only				Type of Meeting	<input checked="" type="checkbox"/>	Open	<input type="checkbox"/>	Closed

**Report Title**  
All-Way Stop Policy

**Policy Implications + Budget Impact**

This report and recommendation(s) have been reviewed by the Finance Division and the funding source has been identified

Background attached

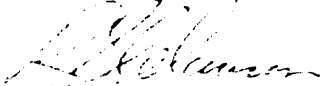
**Recommendation**

That the City of Greater Sudbury approve the modified warrant for determining the need for all-way stops. The modified warrant reduces the minimum volume and collision threshold as described in the report dated April 30, 2008 from the General Manager of Infrastructure Services.

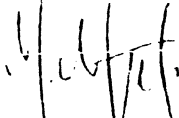
That only those requests for all-way stops that satisfy the minimum warrants be brought forward for Council's consideration.

Recommendation attached

**Recommended by the Department Head**

  
Greg Clausen, P. Eng.  
General Manager of Infrastructure Services

**Recommended by the C.A.O.**

  
Mark Minto  
Chief Administrative Officer

Date: April 30, 2008

**Report Authored By**



Dave Kivi, Coordinator of Transportation and Traffic,  
Engineering Services

**Division Review**



Robert M. Falcioni, P. Eng.  
Director of Roads and Transportation

Introduction

At the Traffic Committee meeting held on September 18, 2007, staff was requested to survey other municipalities regarding their All-Way Stop policies and recommend an All-Way stop policy for the City of Greater Sudbury.

In late November 2007 a survey was sent to over 30 Ontario municipalities requesting information regarding their policies and procedures related to All-Way stops and number of other traffic related issues. As of February 2008, a total of 12 surveys have been returned to us. In addition to these, we were able to find All-Way stop policies for a number of other municipalities through an internet literature review. A summary of the survey questions and responses received are contained in Exhibit "A".

Background

It is a common perception that All-Way stops are the answer to neighborhood traffic problems. People often believe that they reduce speeding and improve safety. The purpose of an All-Way stop is to alternate right-of-way at an intersection. All-Way stops can be an effective traffic control device when installed at busy intersections with similar traffic volumes and characteristics. All-Way stops disrupt the flow of traffic and introduce delay to all drivers within the intersection. Therefore, they should only be installed at intersections based on the vehicle and pedestrian volumes or at intersections having a high collision frequency.

Speed Control

Often times, All-Way stops are requested by residents to slow traffic down on a roadway. Unfortunately, All-Way stops are not effective as speed control devices. Studies have shown that speeds are only reduced in close proximity to the sign, and mid-block speeds actually increase after stop signs are installed as drivers attempt to make up for lost time.

Safety

It is common belief that All-Way stops will increase safety at an intersection. Stop signs can reduce certain types of collisions such as right angle or turning types if they are prevalent at an intersection. However, the unwarranted installation of All-Way stops increases driver frustration, reduces compliance, and creates disrespect for stop signs. This behavior can spread to other intersection where stop signs are required. The inappropriate use of All-Way stops can decrease safety for pedestrians and cyclists, especially young children, as they expect drivers to actually stop at the sign.

Environment and Economic Impact

All-Way stops are relatively inexpensive to install, which is one reason they are requested so often. However, they can greatly increase fuel consumption, noise, and air pollution, due to constant braking and acceleration



Date: April 30, 2008

that occurs. It has been reported that additional gasoline consumed from one stop sign on a typical collector road is 25 litres per day or 9,125 litres per year.

The Ministry of Municipal Affairs and Housing indicates that a typical four-way stop generates the following emissions on a yearly basis:

657 kg of Hydro Carbons  
8,760 kg of Carbon Monoxide  
675 kg of Nitrogen Oxide  
65,700 kg of Carbon Dioxide

### All-Way Stop Warrant

As previously mentioned, All-Way stops can be an effective means of traffic control when installed under the proper circumstances. Currently, the City of Greater Sudbury follows Provincial Warrants published in the "Ontario Traffic Manual" for determining the need for All-Way stop control. This warrant is used by five (5) of the twelve (12) municipalities surveyed and is the most commonly used warrant in Ontario. The use of standard criteria, or warrants, is very important for determining the need for All-Way stops and other traffic control devices. Warrants provide a method of analysis that is based on engineering principles which can be applied consistently at intersections throughout the City of Greater Sudbury.

The following is some of the criteria that is used in the Provincial Warrant:

### Minimum Volume Warrant

#### **1) Arterial and Major Collector Roads:**

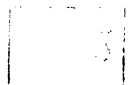
- a) Total vehicle volume on all approaches exceeds 500 vehicles per hour for an eight (8) period, and
- b) A combined vehicle and pedestrian volume from the minor street is more than 200 per hour for the same eight (8) hours, and
- c) The traffic volume on the intersecting streets is similar and does not exceed a split of 70/30.

#### **2) Minor and Local Streets**

- a) Total vehicle volume for all approaches exceeds 350 vehicles for the highest hour, and the volume split does not exceed 75/25 for three-way control and 65/35 for four-way control.

### Collision Warrant

For both major and minor roadways, All-Way stops are warranted when there is an average of four (4) or more collisions per year over a three (3) year period. Only those collisions that are susceptible to correction, though multi-way stop control must be considered, such as angle and turning movement collisions.



Date: April 30, 2008

### Other Considerations

The Ontario Traffic Manual states that all-way stops should not be used under the following conditions.

- As a speed control device
- Solely to protect pedestrians, especially school aged children
- Where traffic would be required to stop on grades
- At offset intersections, or intersections with poor geometry or more than four (4) legs
- On multi-lane approaches
- Higher speed roadways (speed limit greater than 60 km/h)
- Where visibility of the sign is hampered by curves
- Within 250 metres of traffic signals or another stop sign
- On truck or bus routes, except in industrial areas where two such routes cross

### Modified Warrant

Based on the comments of the Traffic Committee that the Provincial All-Way Stop Warrants are too restrictive; staff has developed an alternative warrant based on the survey results and policies used by other Ontario municipalities. This Warrant is based on the same principles contained in the Ontario Traffic Manual. The main difference is that the traffic volume and collision warrants have been reduced for lower volume collector roads and residential roadways. If approved, the proposed warrant would be similar to the warrants used in the cities of Toronto and Oakville. A summary of this warrant is shown in Exhibit "B", and described below.

### Minimum Volume Warrant

**1) Arterial and major collector roadways with Annual Average Daily Traffic volume (AADT) greater than 5,000.**

- a) Traffic volume and collision warrant remains as per the Ontario Traffic Manual.

**2) Minor collector roads with an AADT between 1,000 and 5,000.**

- a) Total vehicle volume on all approaches reduced from 500 vehicles per hour for eight (8) hours to 350 vehicles per hour for only four (4) hours.
- b) The combined vehicle and pedestrian volume on the minor approach reduced from 200 per hour for eight (8) hours to 140 per hour for only four (4) hours.
- c) The volume split remains at a ratio of 70/30.
- d) Collision frequency is reduced from four (4) per year to three (3) per year over a three (3) year period. Only collisions that may be corrected with an all-way stop are to be considered.

**3) Local roads with an AADT less than 1,000.**

- a) The total vehicle volume on all approaches reduced from 350 vehicles in the highest hour to 250 vehicles per hour for a four (4) hour period.





Date: April 30, 2008

- b) Simplify the volume split at a ratio of 70/30 for all conditions where a split of 75/25 for the three-way control and 65/35 for four-way control are currently required.
- c) Collision frequency is cut in half from four (4) collisions per year to two (2) collisions per year for a three (3) year period. Only collisions that may be corrected with an all-way stop are to be considered.

Other Considerations

Remain as per the Ontario Traffic Manual.

Procedures

In order to ensure that all-way stops serve their intended purpose and make the best use of staff time, it is recommended that the following procedures be followed.

- 1) Requests for all-way stops related to a speeding problem will be referred to the City's Speed Watch Program and the Traffic Calming Policy, which is currently being developed.
- 2) Requests for all-way stops related to right of way control or to correct a collision problem will be analyzed based on the approved all-way stop policy.
- 3) Only those intersections that satisfy the requirements for all-way stop control will be brought forward to the Traffic Committee for consideration.

# EXHIBIT: A

## TRAFFIC SURVEY ALL-WAY STOP

Municipality	All-Way Stop Warrant	Detailed Engineering Analysis	Council or Committee Report
City of Waterloo	OTM Book 5	Review traffic count, collisions, geometrics and operational constraints	Only those that meet the warrants.
City of Barrie	OTM Book 5	Review traffic count, collisions, geometrics and operational constraints	All of the requests.
City of Windsor	Minimum vehicle volumes on all approaches Collector & local = 250 veh per hour Minimum vehicular + Pedestrian volume Collector & Local = 150 veh per hour	Review traffic count, collisions, geometrics and operational constraints. Speed concerns are referred to the traffic calming policy.	Only those that meet the warrants
City of Brockville	OTM Book 5	Review traffic count, collisions, geometrics and operational constraints	Only those that meet the warrants.
City of Oakville	Minimum vehicle volumes on all approaches Major collector = 400 veh per hour Minor collector = 350 veh per hour Local = 300 veh per hour Minimum vehicular + Pedestrian volume Major collector = 160 veh per hour Minor collector = 140 veh per hour Local = 120 veh per hour Collision history Arterial & Major collector 5 per year over a 3 year period	Review traffic count, collisions, geometrics and operational constraints	All of the requests
City of Cambridge	OTM Book 5 (Modified) Minimum vehicle volumes on all approaches Local = 250 veh per hour	Review traffic count, collisions, geometrics and operational constraints. Speed concerns are referred to the traffic calming policy.	Report is prepared when the request is volume based or when the request is pushed forward by a Councillor.
City of Vaughan	OTM Book 5	Review traffic count, collisions, geometrics and operational constraints	All of the requests.
City of London	Minimum vehicle volumes on all approaches Minor Collector = 350 veh per hour	Review traffic count (5 peak hours), collisions, geometrics and operational constraints	Only 10% of the major issues are reported to Council.
City of Niagara Falls	Minimum vehicle volumes on all approaches Minor collector & Local = 350 veh per hour Minimum vehicular + Pedestrian volume Minor collector & Local = 160 veh per hour	Assess speed to determine if there is a speeding problem (speed study). Assess whether an all way stop is warranted based on collisions, visibility problems and 8 hour TMC. Petition households within 75 m of the intersection preference	Reports are only prepared for intersections which meet the warrant, unless it is a specific request from committee or council. If it is not warranted, a letter would be typically sent to residents within the 75 m of the intersection to advise of the decision.
Town of Newmarket	Modified OTM Book 5 warrant without the directional splits but an increased emphasis on pedestrian activity	Review TMC and all-way stop warrant analysis	All of the requests

Municipality	All-Way Stop Warrant	Detailed Engineering Analysis	Council or Committee Report
City of Guelph	OTM Book 5	Review traffic count, collisions, geometrics and operational constraints. When a local road intersects another local road only the peak hour volume is locked initially.	No, unless directed specifically by Council to report back on the matter
Region of Niagara	OTM Book 5	Review traffic count, collisions, geometrics and operational constraints	No, only respond back to the individual request.

# EXHIBIT: B



## CITY OF GREATER SUDBURY ALL-WAY STOP WARRANTS

Location: \_\_\_\_\_ Date: \_\_\_\_\_  
 Date of TM Count: \_\_\_\_\_ Analyst: \_\_\_\_\_  
 Type of Intersection: \_\_\_\_\_

### All-Way Stop Warrant Summary

Warrant #1	Minimum Vehicle Volume	<input type="text"/>	%
Warrant #2	Collision History	<input type="text"/>	%
Warrant #3	Traffic Control Signals	<input type="text"/>	Y/N
All-Way Stop Warranted?			<input type="text"/> Y/N

#### Warrant #1 - Minimum Vehicle Volume

Roadway Type	Arterial/Major Collector	Minor Collector	Local	Vehicles per hour	Percent Compliance
AADT	> 5000	1000 - 5000	< 1000		
Count Period	7 hours	4 peak hours	4 peak hours		
Total vehicle volume from all approaches is ≥	500/hr	350/hr	250/hr		
Veh + Pedestrian volumes from side street is ≥	200/hr	140/hr	N/A		
Traffic Split	70/30	70/30	70/30	/	Y/N

#### Warrant #2 - Collision History

Roadway Type	Arterial/Major Collector	Minor Collector	Local	Number of Collisions per year	Percent Compliance
Collisions per Year over 3 year period	4*	3*	2*		

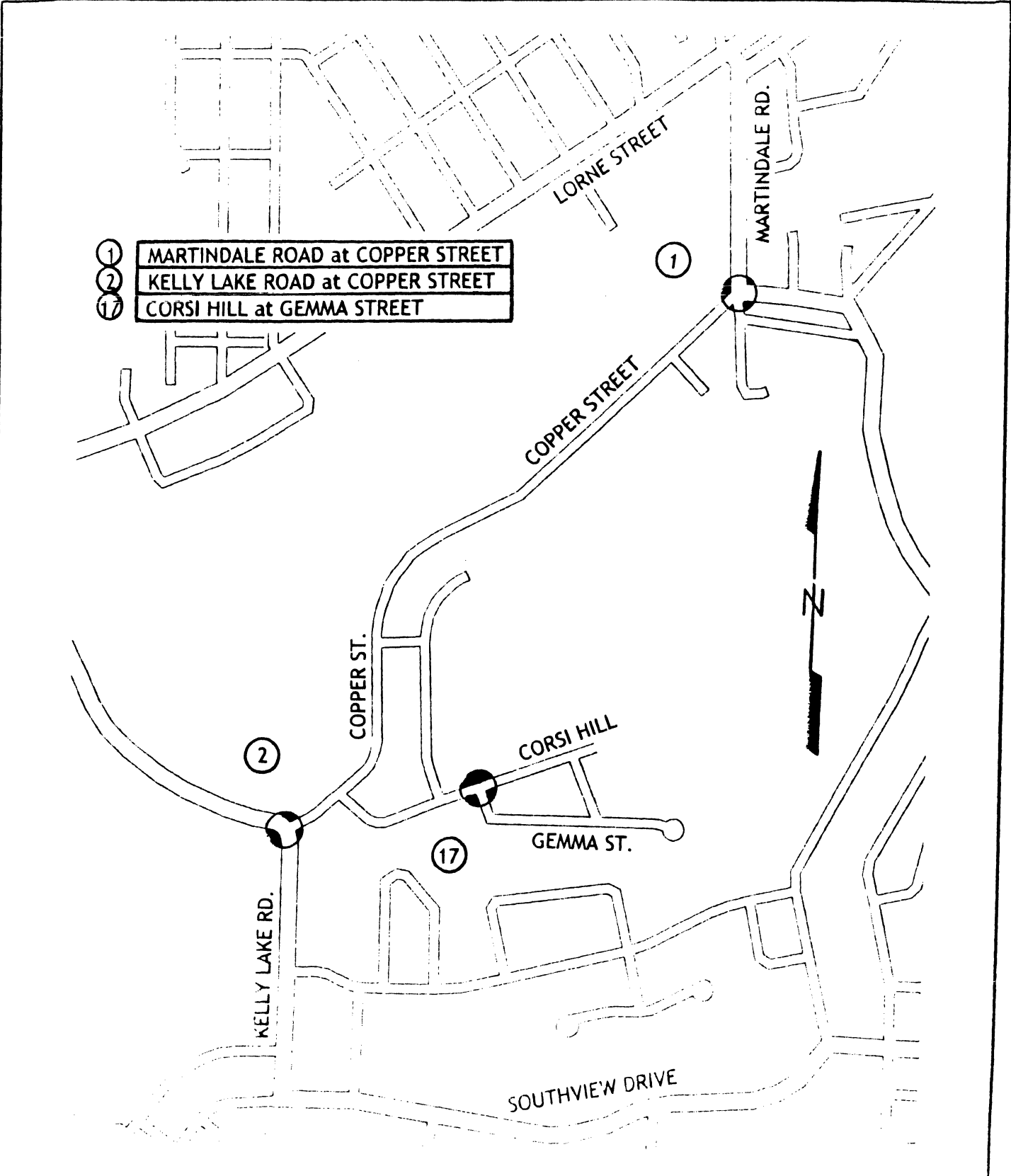
**Warrant #3** Traffic Control Signals are warranted and urgently needed, signs to be used as interim measures.  Y/N


- \* Only those collisions susceptible to relief through multi-way stop control must be considered (i.e. right angle and turning types).
- If the intersection meets warrant # 1, then the all-way stop is recommended regardless of the remaining warrants.
  - If the intersection does not meet warrant #1 and does not meet warrant #2, then the all-way stop is not recommended.
  - If the intersection does not meet warrant #1 and does meet warrant #2 then the all-way stop is recommended.

All-Way Stops Warrant Summary

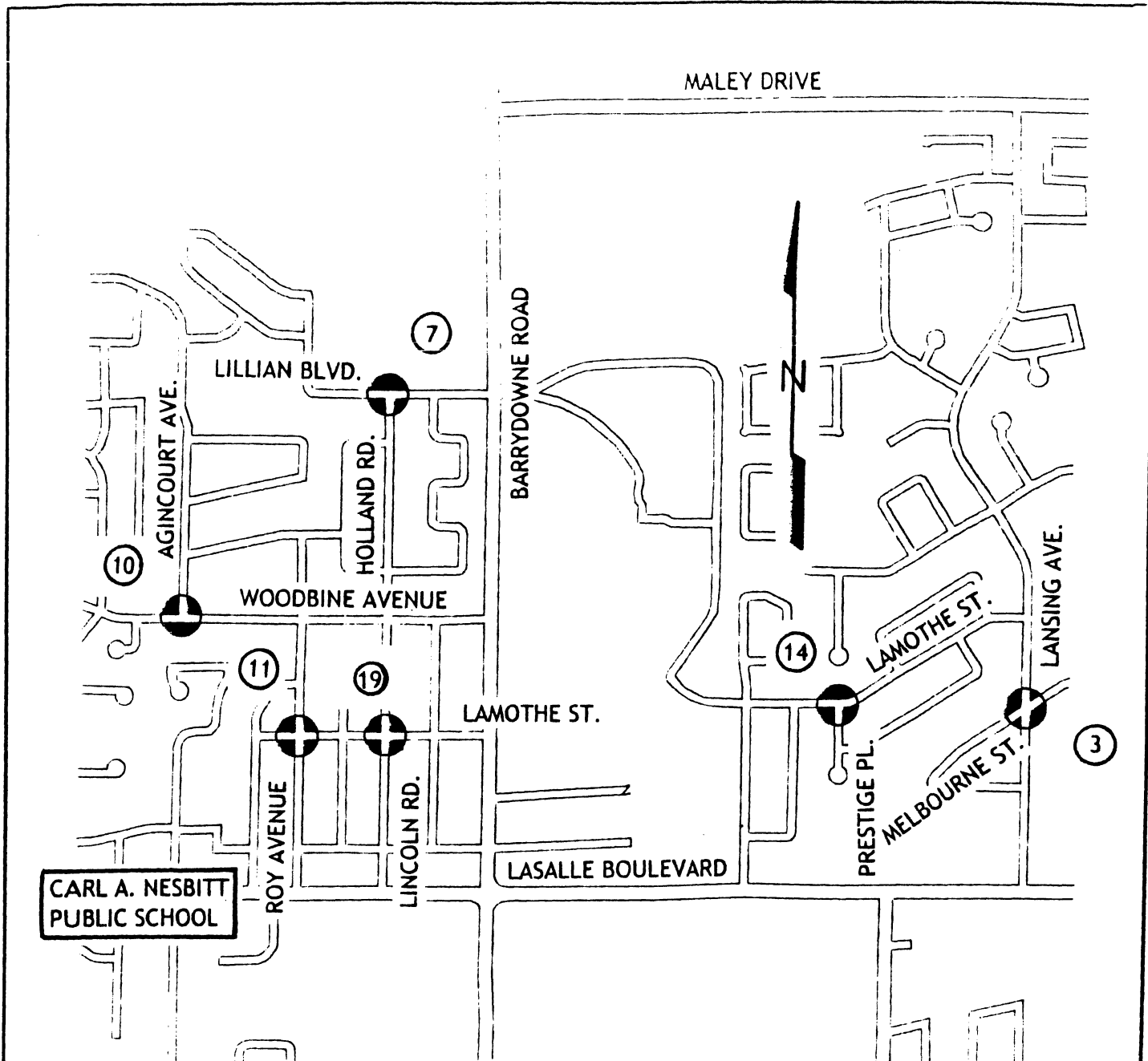
#	Location	Warrant #1 - Minimum Volume Summary								Warrant #2 - Collision Warrant	All-Way Stop Warranted? (CGS Warrant)		
		New CGS All-Way Stop Warrant					Ontario Traffic Manual All-Way Stop Warrant						
		Total Vehicle Volume From All Approaches (#/hour)	Vehicle and Pedestrian Volume From Side Street (#/hour)	Traffic Split	Percent Compliance	Rank	Total Vehicle Volume From All Approaches (#/hour)	Vehicle and Pedestrian Volume From Side Street (#/hour)	Percent Compliance	Number Of Collisions Over 3 Year Period			
<b>Arterial/Major Collector</b>		<b>Minimum Required</b>	<b>500</b>	<b>200</b>	<b>70/30</b>				<b>500</b>	<b>200</b>		<b>12</b>	
1	Martindale Road at Copper Street	577	157	73/27	78	1	577	157	78		1	No	
2	Kelly Lake Road at Copper Street	868	127	85/15	50	2	868	127	50		0	No	
3	Lansing Avenue at Melbourne Street	460	50	89/11	25	3	460	50	25		1	No	
4	Kathleen Street at Bessie Avenue	313	46	91/9	23	4	63	23	23		0	No	
<b>Minor Collector</b>		<b>Minimum Required</b>	<b>350</b>	<b>140</b>	<b>70/30</b>						<b>9</b>		
5	Leslie Street at Mont Adam Street	410	176	58/42	100	1	410	172	82		0	Yes	
6	Dell Street at Bruce Avenue	280	111	72/28	79	2	280	111	55		1	No	
7	Lillian Boulevard at Holland Road	283	99	67/33	71	3	283	99	49		0	No	
8	Montee Rouleau at St. Laurent Street	366	93	73/27	70	4	268	79	40		2	No	
9	Algonquin Road at Tuscan Trail/Trailridge Drive	278	86	75/25	62	5	278	86	43		0	No	
10	Woodbine Avenue at Agincourt Avenue	477	77	84/16	53	6	381	32	32		1	No	
11	Roy Avenue at Lamothe Street	206	68	70/30	48	7	206	68	34		1	No	
12	St. Charles Lake Road at Brenda Drive/Wayne Road	169	76	58/42	48	8	169	76	34		0	No	
13	Third Avenue at Highgate Road	106	31	72/28	22	9	106	31	15		0	No	
14	Lamothe Street at Prestige Place	241	17	94/6	12	10	241	17	9		0	No	
15	Third Avenue North at School Street	76	15	36/14	11	11	76	15	8		0	No	
<b>Local</b>		<b>Minimum Required</b>	<b>250</b>	<b>N/A</b>	<b>70/30</b>						<b>6</b>		
16	Greenbriar Road at Scarlett Road	142		46/54	57	1	168		18		0	No	
17	Corsi Hill at Gemma Street	116		33/17	46	2	126		36		0	No	
18	Meehan Avenue at Coulson Street	107		59/41	43	3	124		35		1	No	
19	Lamothe Street at Lincoln Road	71		81/19	29	4	85		24		0	No	
20	Rheal Street at Donald Street	57		36/14	23	5	61		17		0	No	

# EXHIBIT: C

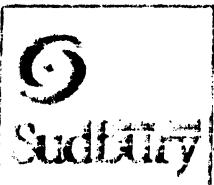


 <b>Sudbury</b>	ALL WAY STOP CONTROL VARIOUS DIRECTIONS INTERSECTIONS 1, 2 and 17
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# EXHIBIT: D

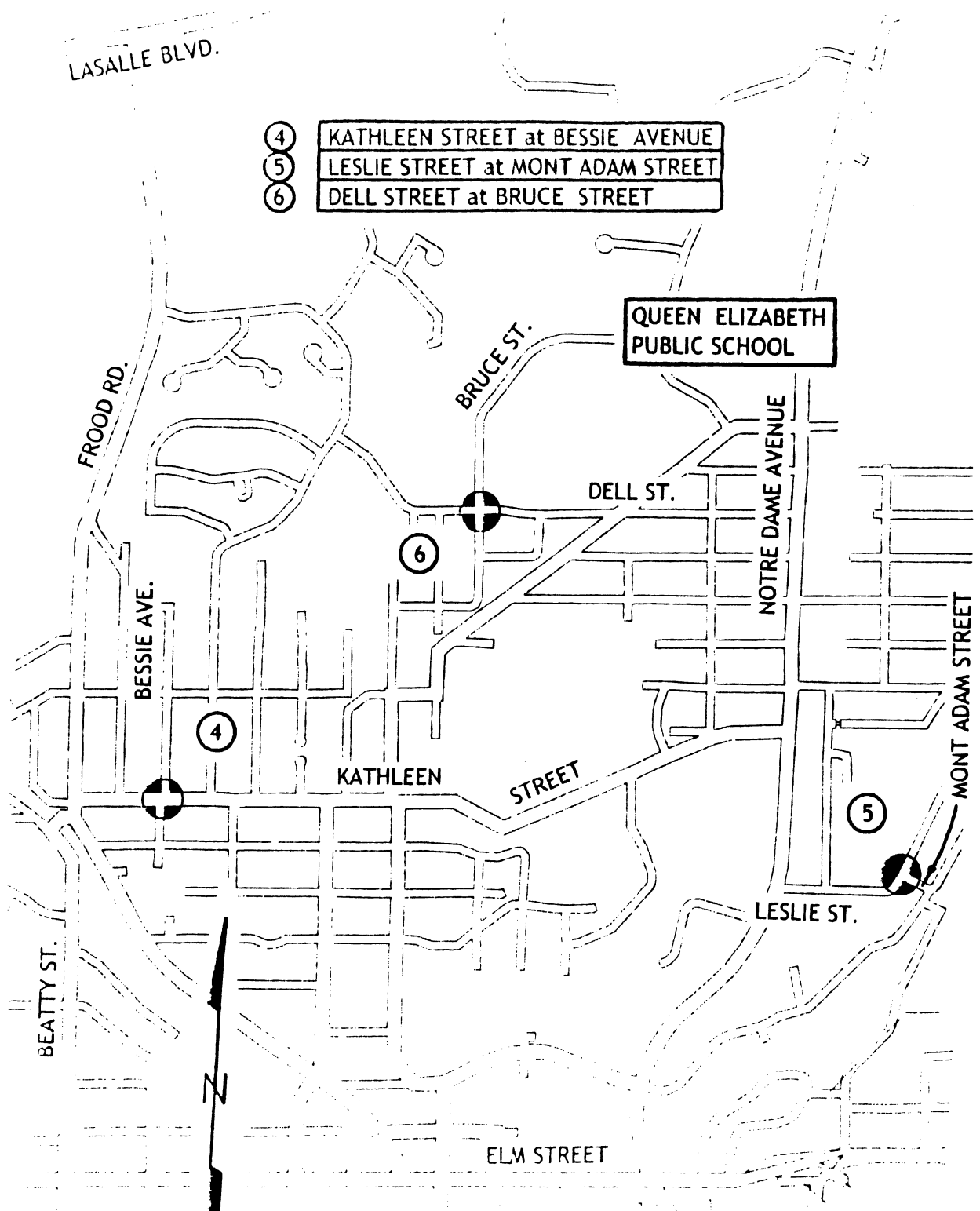



- ③ LANSING AVENUE at MELBOURNE STREET
- ⑦ LILLIAN BOULEVARD at HOLLAND ROAD
- ⑩ WOODBINE AVENUE at AGINCOURT AVENUE
- ⑪ ROY AVENUE at LAMOTHE STREET
- ⑭ LAMOTHE STREET at PRESTIGE PLACE
- ⑰ LAMOTHE STREET at LINCOLN ROAD



ALL-WAY STOP CONTROL -  
VARIOUS INTERSECTIONS  
INTERSECTION 7, 10, 11, 14 and 19  
SECTION 1

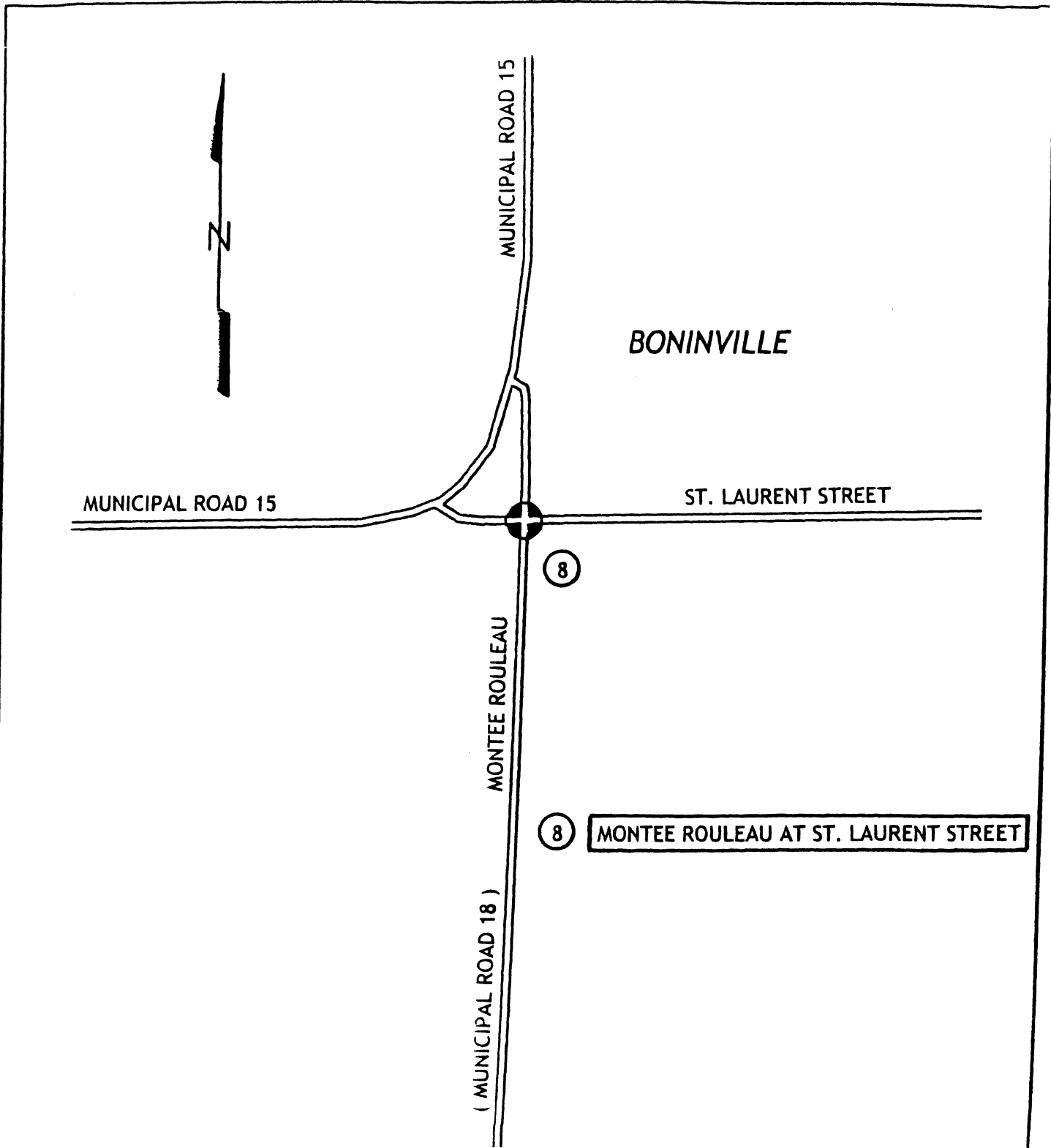
# EXHIBIT: E




	ALL WAY STOP CONTROL
	VARIOUS DIRECTIONS
	INTERSECTION AS SHOWN

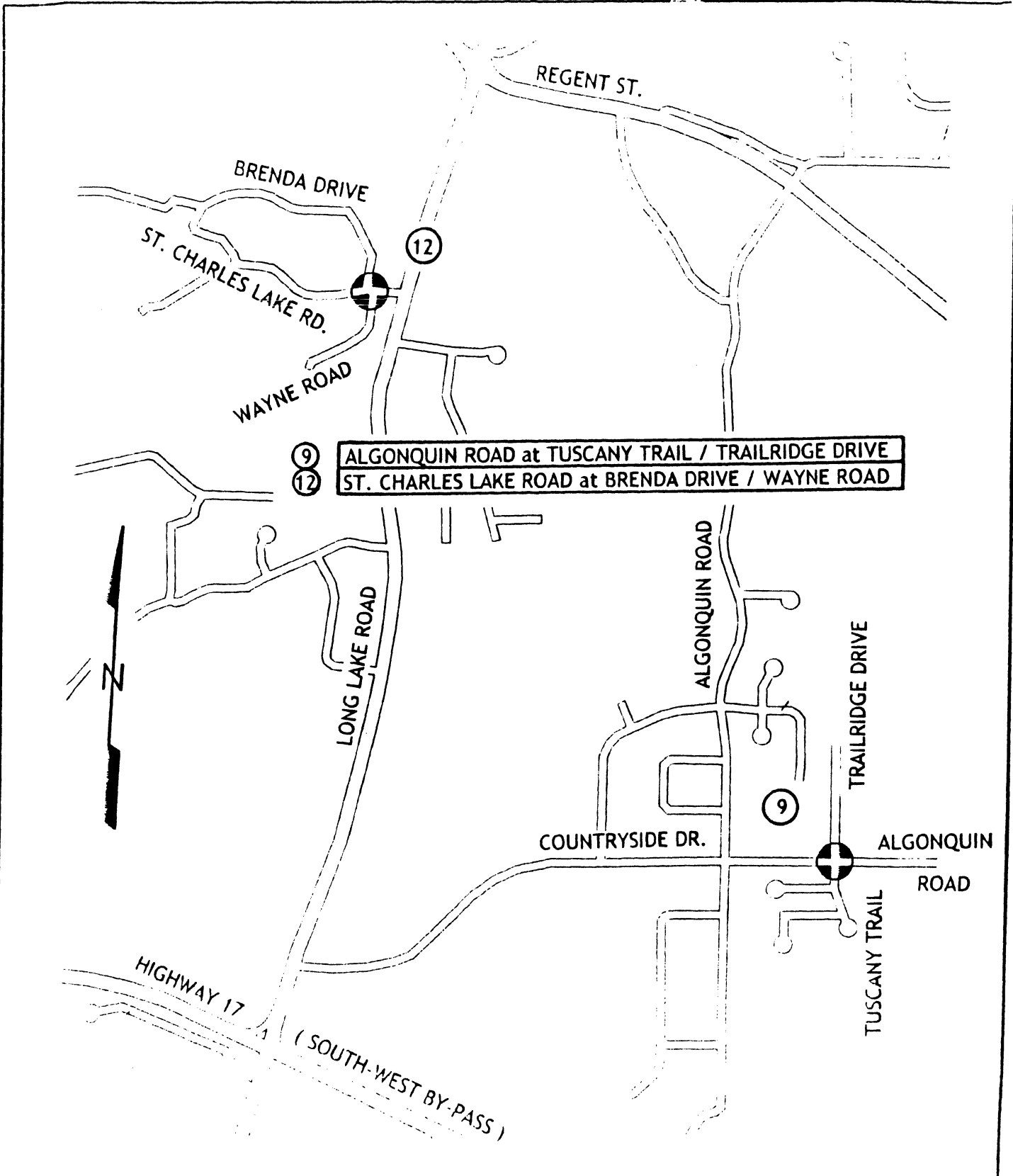


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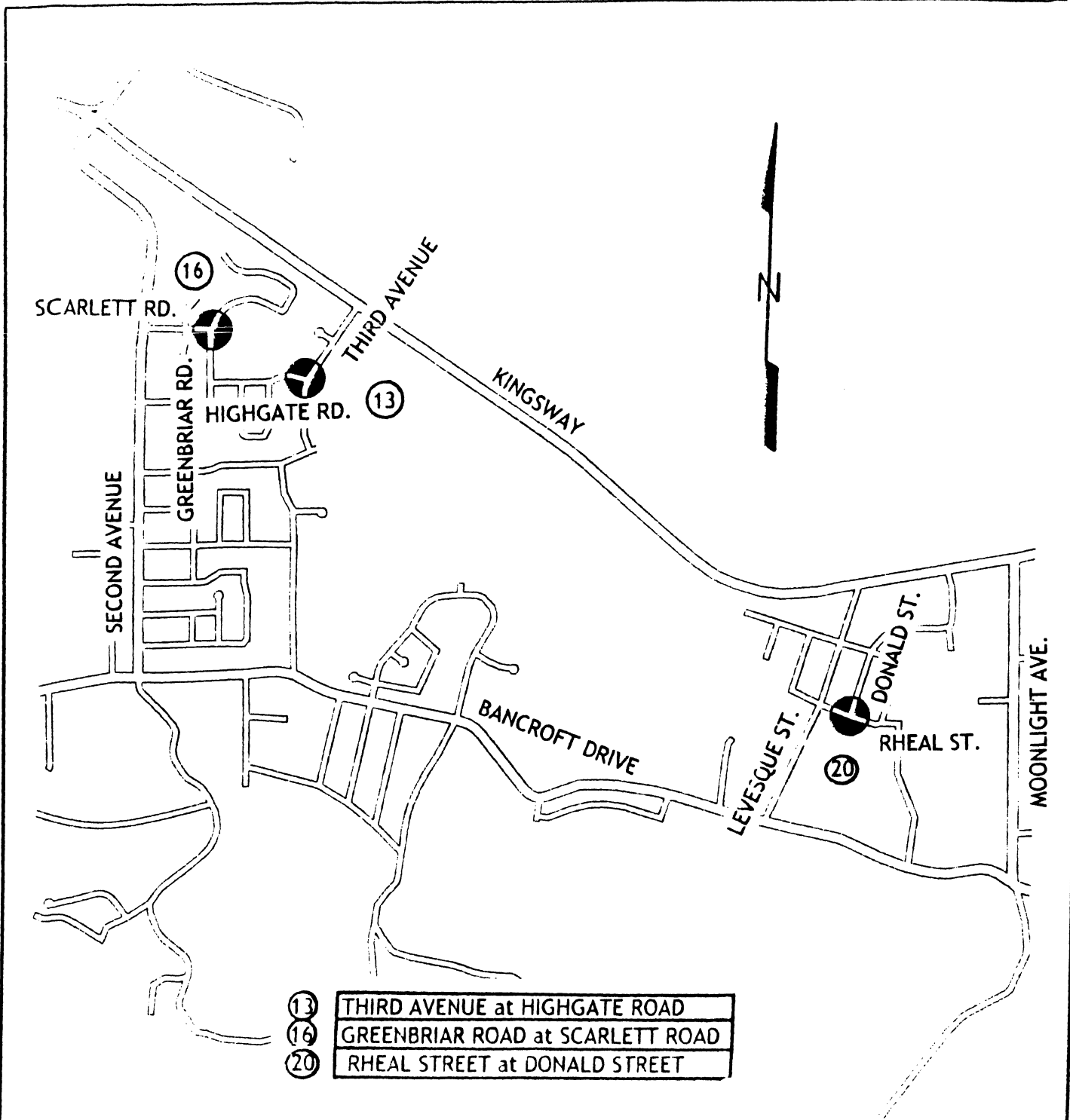
 <b>Swinburn</b>	ALL WAY STOP CONTROL
	VARIOUS PROPOSED AND INTERSECTION 7.3

# EXHIBIT: G



ALL WAY STOP CONTROL -  
VARIOUS DIRECTIONS  
INTERSECTION 9 AND 12

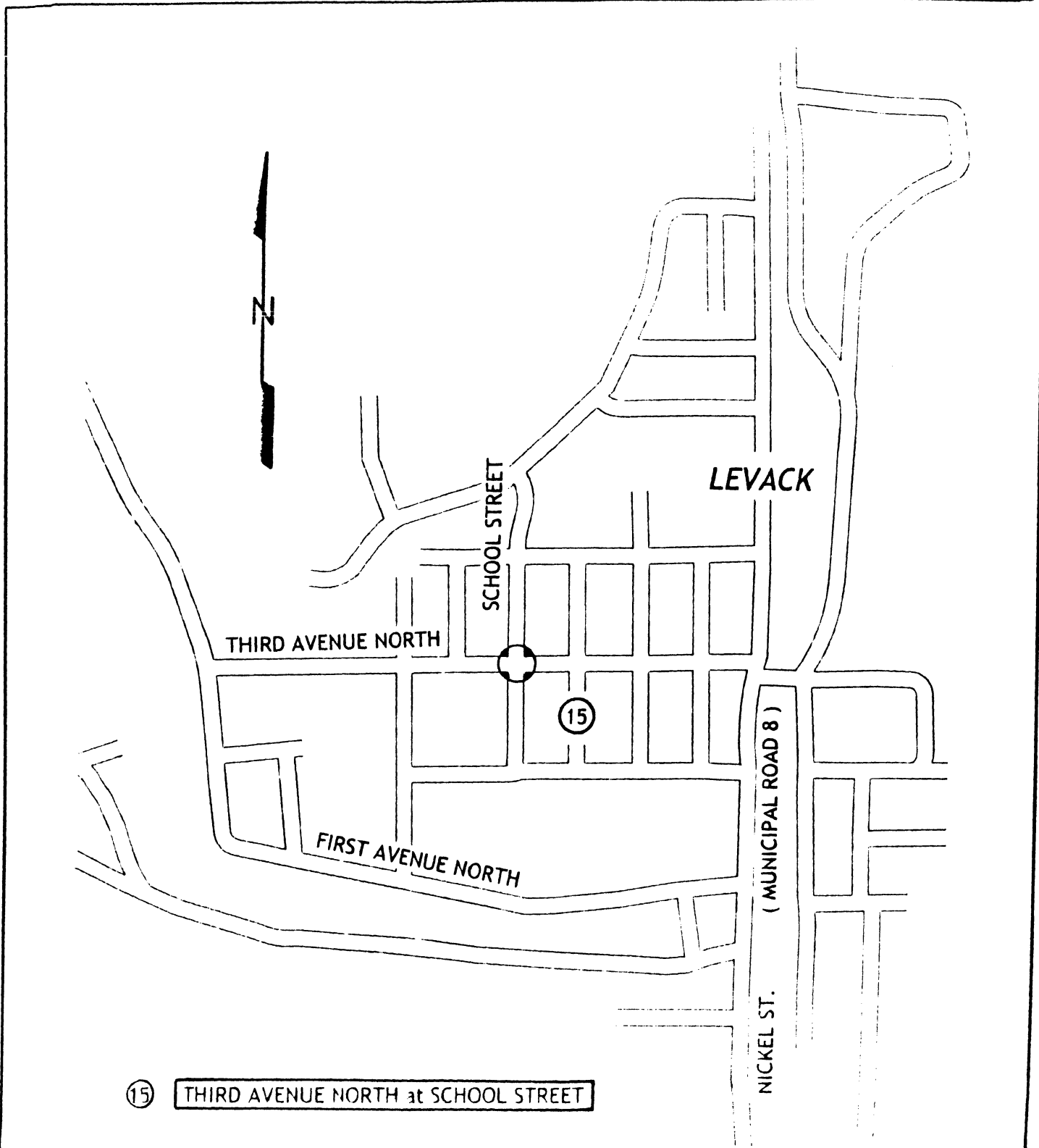
# EXHIBIT: H




ALL WAY STOP CONTROL  
APPLICABLE TO ALL PHASES

INTERSECTION 13, 16 and 20

# EXHIBIT: I

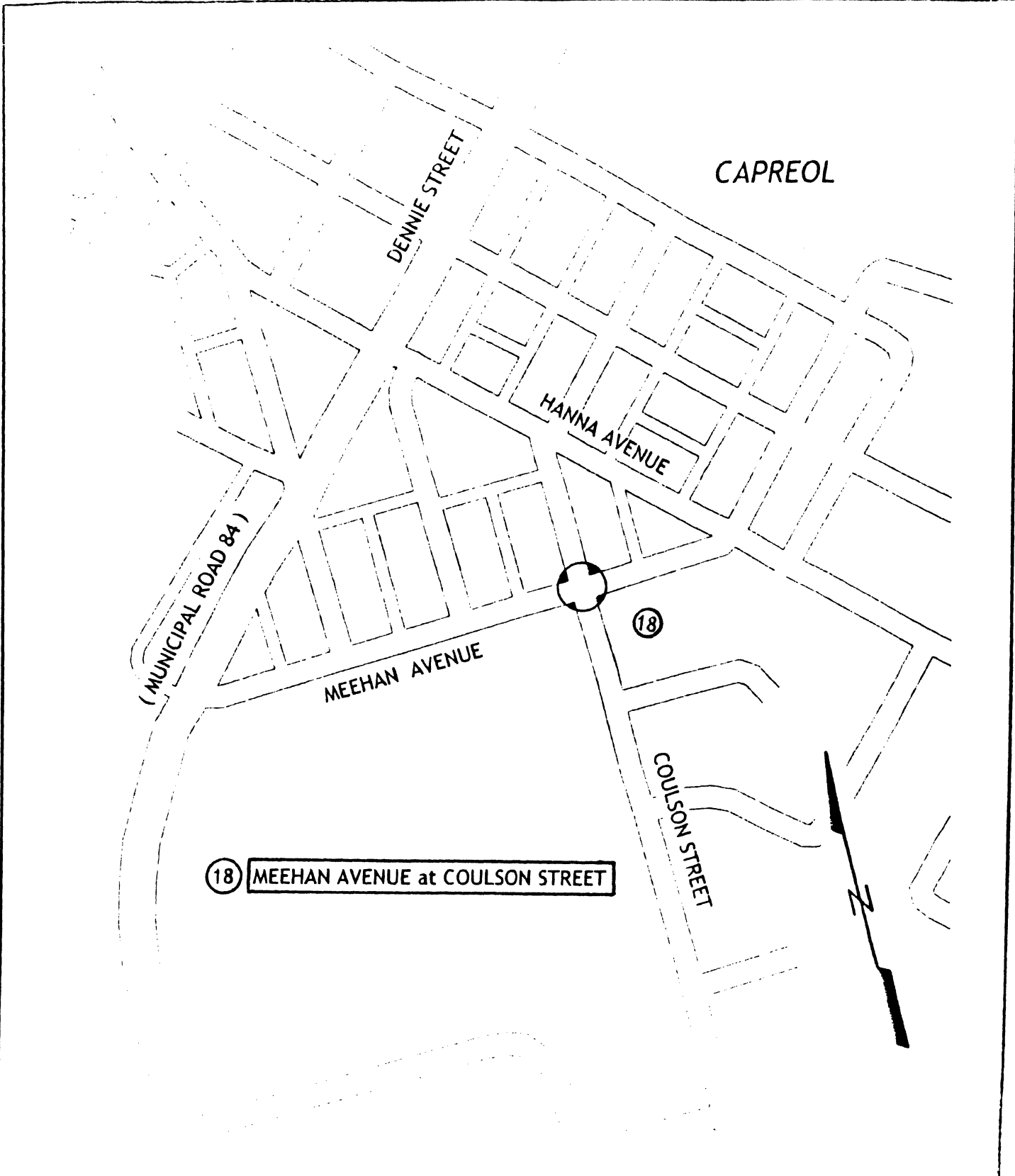


⑮ THIRD AVENUE NORTH at SCHOOL STREET

 <b>Sudbury</b>	ALL-WAY STOP CONTROL
	SUDBURY MUNICIPAL ENGINEERS

INTERSECTION # 15

EXHIBIT: J



18 MEEHAN AVENUE at COULSON STREET



ALL WAY STOP CONTROL  
AT THE INTERSECTION  
OF MEEHAN AVENUE  
AND COULSON STREET

CITY OF GREATER SUDBURY  
SCHEDULE "O" TO BY-LAW 2001-1

STOPS AT INTERSECTIONS

(1)  
Intersection

(2)  
Direction of Travel

**ADD:**

Leslie Street – Mont Adam Street (Sudbury)

North and South on Leslie Street  
West on Mont Adam Street



# Interoffice Correspondence

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October 30th, 2008

TO: G. Clausen, General Manager Infrastructure Services

FROM: L. Oldridge, Deputy City Clerk

RE: All-Way Stops - Various Intersections

---

The following intersections were recommended for deferment to be reviewed under the Traffic Calming Policy:

- Intersection #6 - Dell Street at Bruce Avenue;
- Intersection #7 - Lillian Boulevard at Holland Road;
- Intersection #9 - Algonquin Road at Tuscan Trail/Trailridge Drive;
- Intersection #11 - Roy Avenue at Lamothe Street.

The following intersection was recommended for deferment for annual traffic counting as new subdivisions will likely increase traffic:

- Intersection #2 - Kelly Lake Road and Copper Street.

The following intersections were recommended for deferment while waiting on further information from the Ward Councillor:

- Intersection #3 - Lansing Avenue at Melbourne Street;
- Intersection #14 - Lamothe Street at Prestige Place.

The following intersections were recommended for deferment until current collision data could be obtained:

- Intersection #10 - Woodbine Avenue at Agincourt Avenue;
- Intersection #19 - Lamothe Street at Lincoln Road.

The following intersection was recommended for deferment until current collision information can be obtained:

- Intersection #8 - Montee Rouleau Street and Laurent Street.

/ec

  
Lisa Oldridge  
Deputy City Clerk

cc: R. Falcioni  
D. Kivi  
D. Sheldsted



# Request for Recommendation Traffic Committee



Type of Decision									
Meeting Date	May 6, 2009				Report Date	April 21, 2009			
Recommendation		Yes	<input checked="" type="checkbox"/>	No	Priority	<input checked="" type="checkbox"/>	High		Low
	Direction Only				Type of Meeting	<input checked="" type="checkbox"/>	Open		Closed

Report Title
Parking Restrictions - Kantola Road and Dopson Road, Walden

Policy Implications + Budget Impact	
<input type="checkbox"/>	This report and recommendation(s) have been reviewed by the Finance Division and the funding source has been identified
<input checked="" type="checkbox"/>	Background attached

Recommendation	
<p>That parking be prohibited on the south side of Kantola Road from 100 metres west of Dopson Road to the east end of Kantola Road, and;</p> <p>That parking be prohibited on the east side of Dopson Road from Kantola Road to the north end of Dopson Road, and;</p> <p>That a by-law be passed by City Council to amend Traffic and Parking By-Law 2001-1 in the City of Greater Sudbury to implement the recommended changes all in accordance with the report from the General Manager of Infrastructure Services dated April 21, 2009.</p>	
<input type="checkbox"/>	Recommendation attached

Recommended by the Department Head
 Greg Clausen, P. Eng. General Manager of Infrastructure Services

Recommended by the C.A.O.
 Doug Nadoczny Acting Chief Administrative Officer

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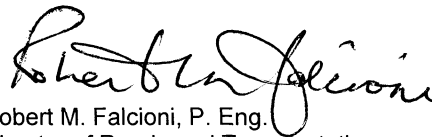
Date: April 21, 2009

**Report Authored By**



Dave Kivi, Coordinator of Transportation and Traffic,  
Engineering Services

**Division Review**



Robert M. Falcioni, P. Eng.  
Director of Roads and Transportation

**Background:**

The City's Transportation and Traffic Engineering Services Section received requests from Ward Councillor, Jacques Barbeau, and area residents to review parking problems along Kantola Road.

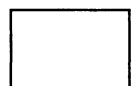
The section of Kantola Road under review is located in the former Town of Walden, near it's southerly limit abutting Long Lake (see Exhibit "A" and "B"). This surface treated rural residential roadway has operating widths ranging from 6.0 metres to 6.5 metres and the maximum speed limit is 50 km/h.

On the northeast corner of the Kantola Road and Dopson Road intersection is a municipally owned boat launch with a small parking area. During summer months, boaters fill the parking area and park along both sides of Kantola Road making it difficult for vehicles to get through.

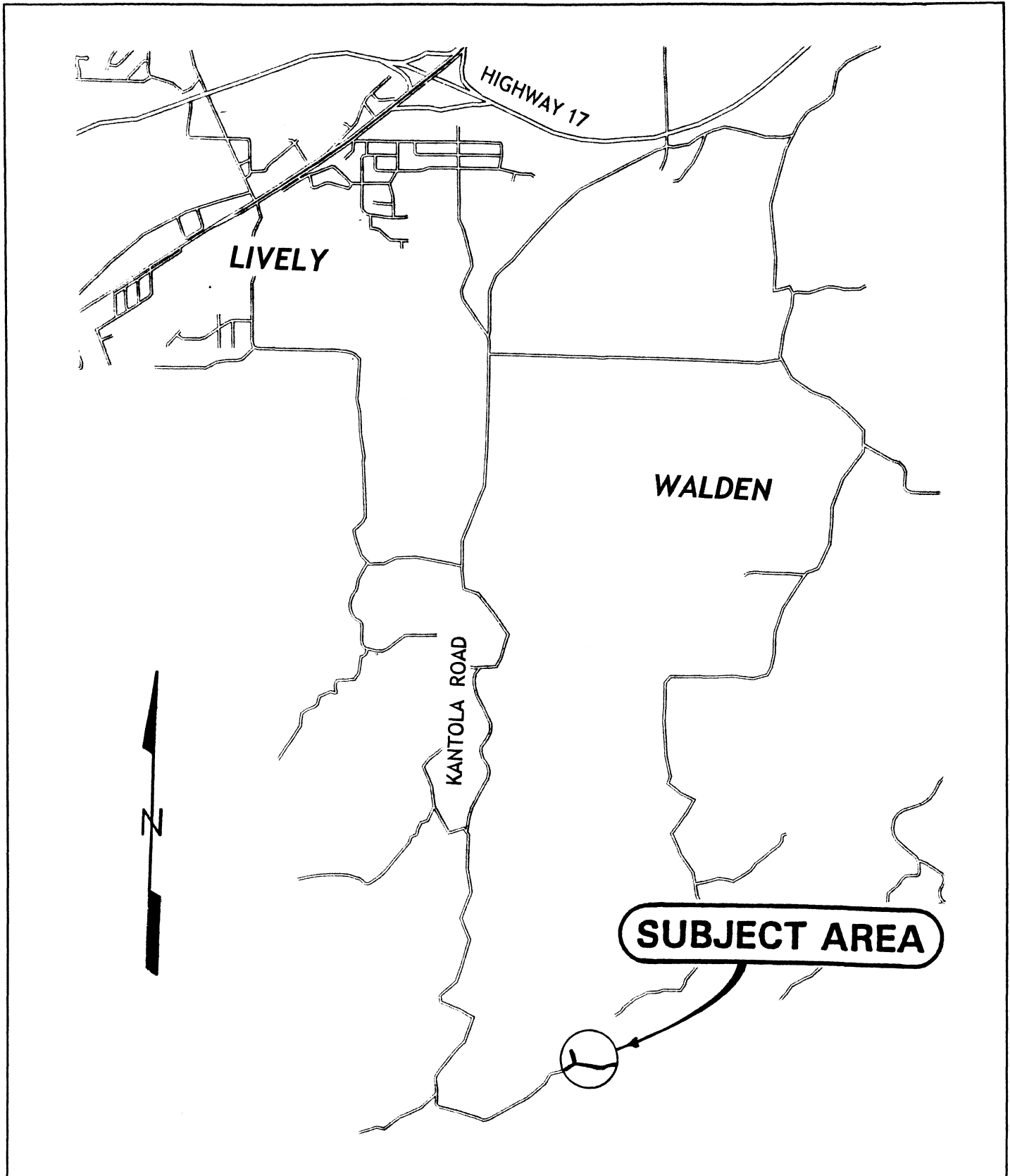
The prime function of a public road is to allow access to and from abutting properties. The City generally permits the use of the roadway for short term parking provided safety can be maintained. Based on the current operating width, parked vehicles along both sides of Kantola Road would severely restrict access to abutting properties by local residents and emergency vehicles.

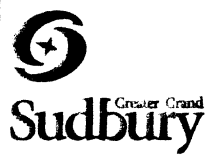
Prohibiting parking along one (1) side of Kantola Road will leave enough room for a single lane of traffic. Opposing traffic may need to yield to each other, however, traffic volumes are low and this situation would not occur often.

To improve safety, it is recommended that parking be prohibited along the south side of Kantola Road from 100 metres west of Dopson Road to the east end of Kantola Road. It is also recommended that parking be prohibited on the east side of Dopson Road from Kantola Road to the north end to prevent moving the parking problem from Kantola Road to Dopson Road. Councillor Barbeau and the majority of residents have indicated their support for the recommendation.

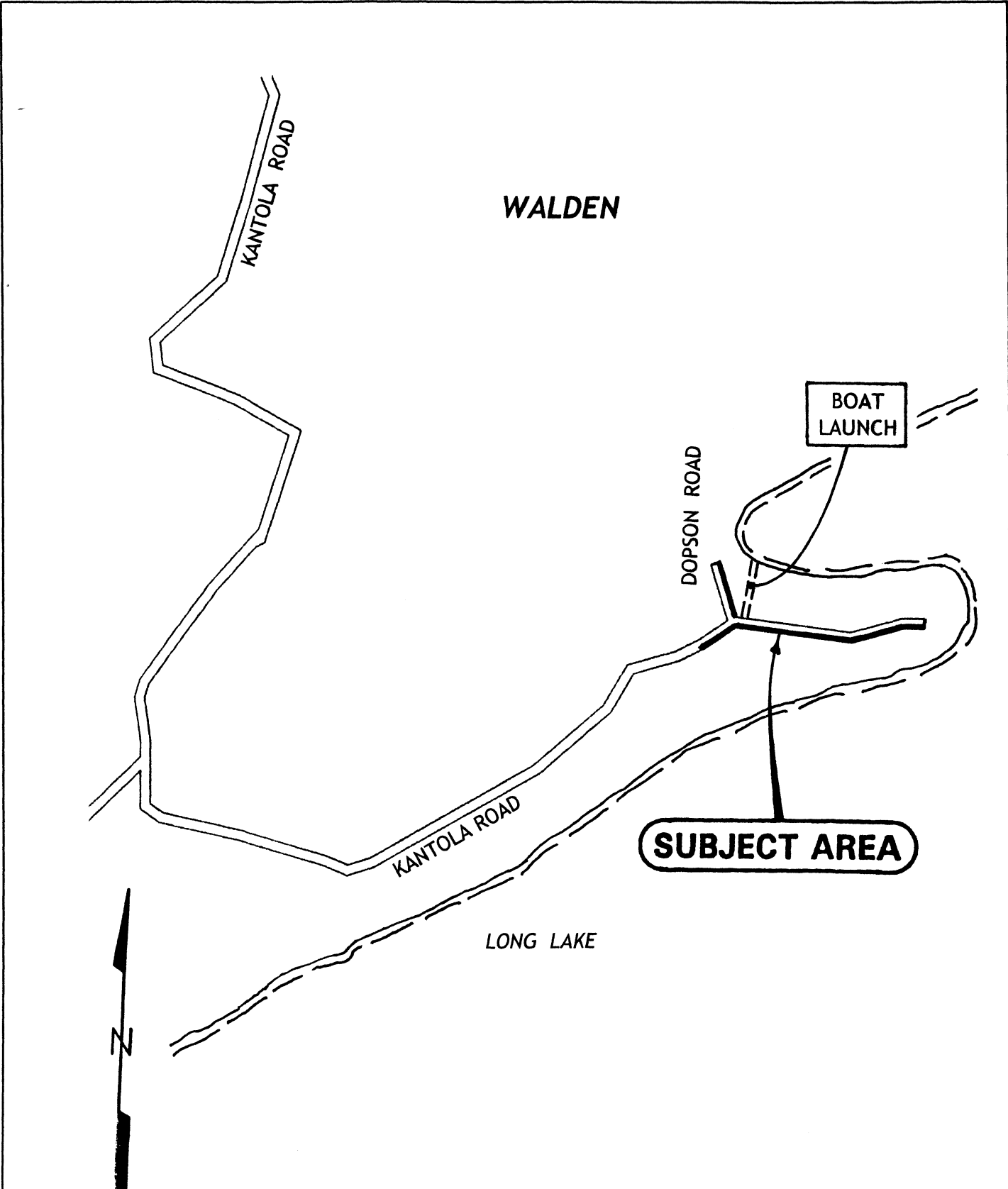



# EXHIBIT: A



	KANTOLA ROAD and DOPSON ROAD WALDEN	
	PARKING RESTRICTIONS	
	NOT TO SCALE	2009 - 04 - 22

**EXHIBIT: B**



	KANTOLA ROAD and DOPSON ROAD WALDEN		
	PARKING RESTRICTIONS		
	NOT TO SCALE		2009 - 04 - 22

# Request for Recommendation Traffic Committee





Type of Decision									
Meeting Date	May 6, 2009				Report Date	April 23, 2009			
Recommendation		Yes	<input checked="" type="checkbox"/>	No	Priority	<input checked="" type="checkbox"/>	High		Low
	Direction Only				Type of Meeting	<input checked="" type="checkbox"/>	Open		Closed

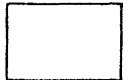
Report Title
Pedestrian Countdown Timers

Policy Implications + Budget Impact	
<input type="checkbox"/>	This report and recommendation(s) have been reviewed by the Finance Division and the funding source has been identified
<input checked="" type="checkbox"/>	Background attached

Recommendation	
<p>That staff continue to purchase and install pedestrian countdown displays, on a priority basis, within the existing Capital and Maintenance Budgets, and;</p> <p>That the pedestrian countdown displays are to only be installed on main street crosswalks except when both streets have similar traffic volumes. In this case displays will be installed on all four (4) approaches, and;</p> <p>That should Council want to proceed with an accelerated pedestrian countdown program, staff be directed to prepare a budget option for a four (4) year conversion program, starting in 2010 at an estimated cost of \$ 50,000 per year, all in accordance with the report from the General Manager of Infrastructure Services dated April 23, 2009.</p>	
<input type="checkbox"/>	Recommendation attached

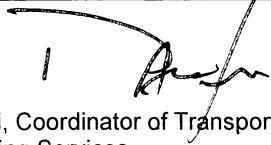
Recommended by the Department Head
 Greg Clausen, P. Eng. General Manager of Infrastructure Services

Recommended by the C.A.O.
 Doug Nadorozny Acting Chief Administrative Officer



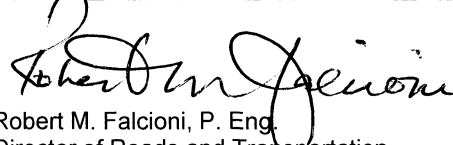
Date: April 23, 2009

**Report Authored By**



Dave Kivi, Coordinator of Transportation and Traffic,  
Engineering Services

**Division Review**



Robert M. Falcioni, P. Eng.  
Director of Roads and Transportation

**Background:**

The most commonly misunderstood pedestrian signal display is the "Flashing Don't Walk". Many people believe that a "Flashing Don't Walk" display means they will not have enough time to cross the road. In fact, the "Flashing Don't Walk" display means there is sufficient time to finish your crossing safely but if you have not yet started, do not start to cross the road.

Pedestrian Count Down Signals

Pedestrian countdown displays are relatively new devices that are being installed by many jurisdictions throughout Ontario and across Canada. They provide more precise information regarding the amount of time available to cross a roadway. They provide a numeric display that counts down the number of seconds remaining before the signal changes to a solid "Don't Walk" display.

Analysis

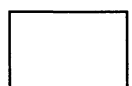
A recent study by the Ontario Injury Prevention Resource Centre showed that on average, each day approximately 20 people visit an Emergency Department and three (3) are admitted to a hospital for a transportation related pedestrian injury.

In 2007, the City of Toronto conducted pedestrian safety studies regarding the effectiveness of installing pedestrian countdown displays at selected signalized intersections. Their findings are as follows:

- Pedestrian countdown displays appeared to reduce pedestrian injuries.
- There was not a significant increase in the number of pedestrians starting to cross during the pedestrian clearance phase.
- Signals did not result in an increase of drivers running red lights.
- The pedestrian countdown signals were viewed as very positive and very favourable by pedestrians in that they provide additional information.

In 2003, the City of Greater Sudbury installed, on a trial basis, its first set of pedestrian countdown signals, on Paris Street near the Rumball Terrace Apartments to determine whether the devices would increase the comfort level of pedestrians crossing busy streets.

In 2007, the City of Greater Sudbury conducted surveys on the pedestrian behaviour before and after the installation of the pedestrian countdown displays. The results from the survey show that the countdown devices do not appear to have an adverse effect on pedestrian behaviour. In general, the pedestrian countdown displays were well received by pedestrians because it provides them with a greater sense of safety since they are aware of how much time they have left to cross the intersection. The participants of the survey also indicated that the countdown signals were helpful to pedestrians in crossing at this location.



Date: April 23, 2009

In 2008, the program was expanded to six (6) additional locations. Pedestrian countdown displays are now installed at the following locations:

1. Paris Street near the Rumball Terrace Apartments
2. Paris Street at the Southwind Retirement Residence
3. Second Avenue just north of Kenwood Street
4. Regent Street at Hazel Street
5. Lasalle Boulevard east of Holland Road
6. Lasalle Boulevard at the Lasalle Court Mall
7. Notre Dame Avenue at Leslie Street

#### Conclusion

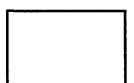
Based on the research from the City of Toronto and the positive response from local residents, staff recommends that the pedestrian countdown display program be expanded to all intersections. Due to budget limitations, the devices should be installed on a priority basis using the following criteria:

- Strong presence of seniors in the area
- High pedestrian volumes throughout the day
- High vehicle volumes throughout the day
- Relatively long crosswalks
- Areas where there have been complaints from pedestrians regarding inadequate walking times

Staff also recommends that the display be only installed on the main street crosswalks of an intersection. Generally, pedestrians feel more comfortable crossing a side street due to the low traffic volume and shorter distance of the crossing.

#### Financial Implications

Should the program be expanded to remaining intersections within the City, it would be require approximately \$ 200,000 to install the pedestrian countdown displays at the 100 remaining intersections. Staff recommends that the program take place over four (4) years, with an estimated cost of \$ 50,000 per year to replace pedestrian signals at 25 intersections each year.



# Request for Recommendation Traffic Committee



## Type of Decision

Meeting Date	May 6, 2009				Report Date	April 17, 2009			
Recommendation		Yes	<input checked="" type="checkbox"/>	No	Priority	<input checked="" type="checkbox"/>	High		Low
	Direction Only				Type of Meeting	<input checked="" type="checkbox"/>	Open		Closed

## Report Title

Parking Restrictions - Davidson Street and Gary Avenue

## Policy Implications + Budget Impact

This report and recommendation(s) have been reviewed by the Finance Division and the funding source has been identified

Background attached

## Recommendation

That a By-Law be passed by City Council to amend Traffic and Parking By-Law 2001-1 in the City of Greater Sudbury to legalize the existing parking restrictions on Davidson Street and Gary Avenue all in accordance with the report from the General Manager of Infrastructure Services dated April 17, 2009.

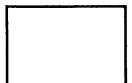
Recommendation attached

## Recommended by the Department Head

Greg Clausen, P. Eng.  
General Manager of Infrastructure Services

## Recommended by the C.A.O.

Doug Nadoczny  
Acting Chief Administrative Officer





Date: April 17, 2009

**Report Authored By**



Dave Kivi, Coordinator of Transportation and Traffic,  
Engineering Services

**Division Review**



Robert M. Falcioni, P. Eng.  
Director of Roads and Transportation

**Background:**

The following report recommends that the existing "No Parking" signs on Davidson Street and Gary Avenue be legalized by amending the City's Traffic and Parking By-Law 2001-1.

Davidson Street

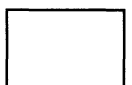
Davidson Street is located just north of the Central Business District adjacent to Sudbury Secondary School (see Exhibit "A"). A school bus loading zone has been designated along the north side of Davidson Street. In order to keep this side of the street clear for school buses, signs have been installed indicating that parking is prohibited from Monday to Friday between the hours of 2:00 p.m. and 3:30 p.m. The signs were installed under the general provisions of the by-law which prohibits parking at anytime adjacent to school property where signs are installed.

Prohibiting parking for specific time periods is much less restrictive for residents of the street than a full time no parking zone. However, enforcement of the current restrictions has proven to be problematic without a specific amendment to Schedule "C" of the City's Traffic and Parking By-Law 2001-1.

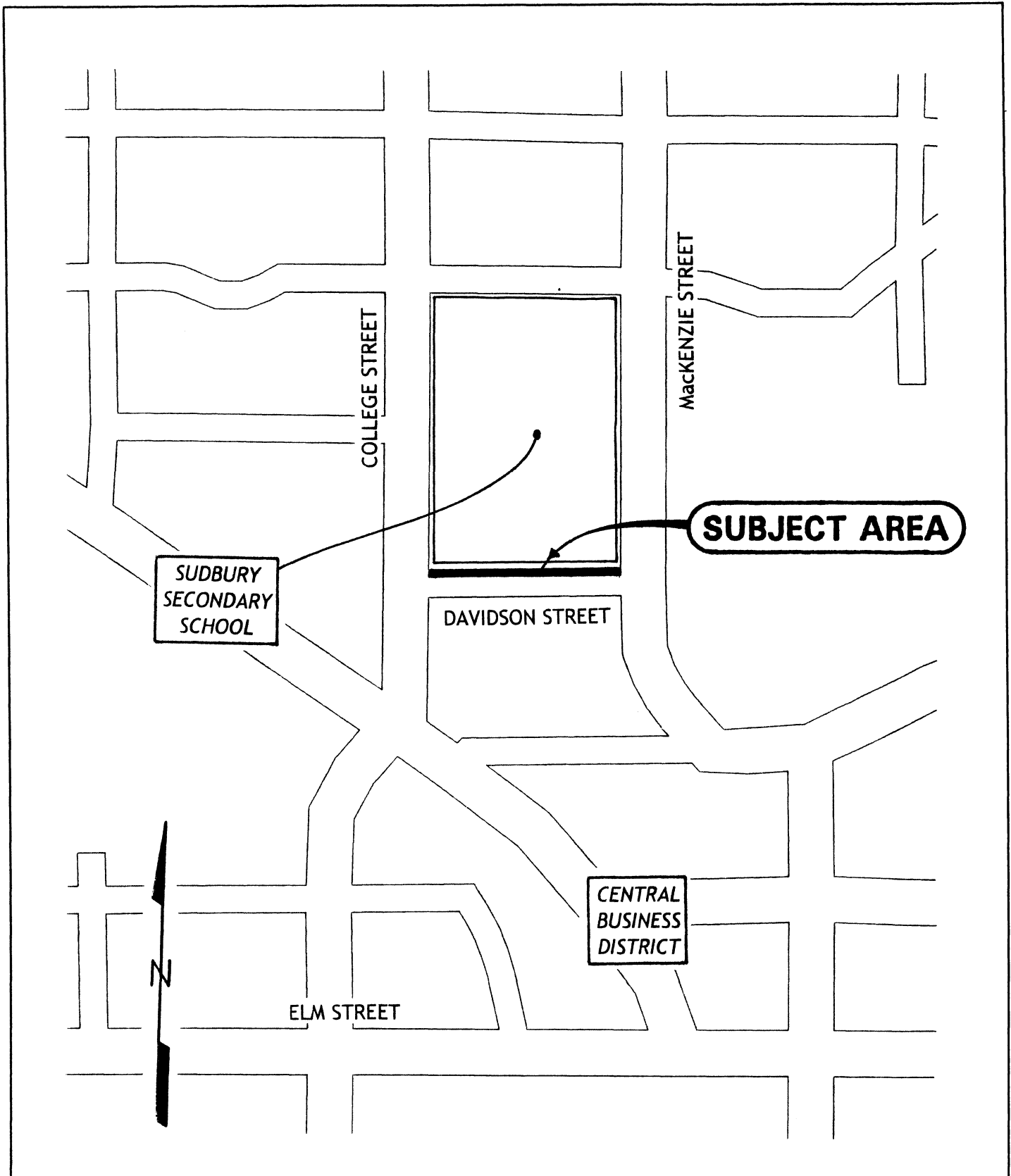
Gary Avenue

Parking is currently prohibited on both sides of Gary Avenue adjacent to Cyril Varney Public School, from 8:00 a.m. to 9:00 a.m. and 2:30 p.m. to 3:30 p.m., Monday to Friday (see Exhibit "B"). The signs were installed a number of years ago to reduce the safety problems created by parents parking on both sides of the street to pick up and drop off their children.

As previously indicated, no changes are being recommended to the existing signs. However, in order to facilitate enforcement of the current parking restrictions, a by-law amendment is required.



# EXHIBIT: A



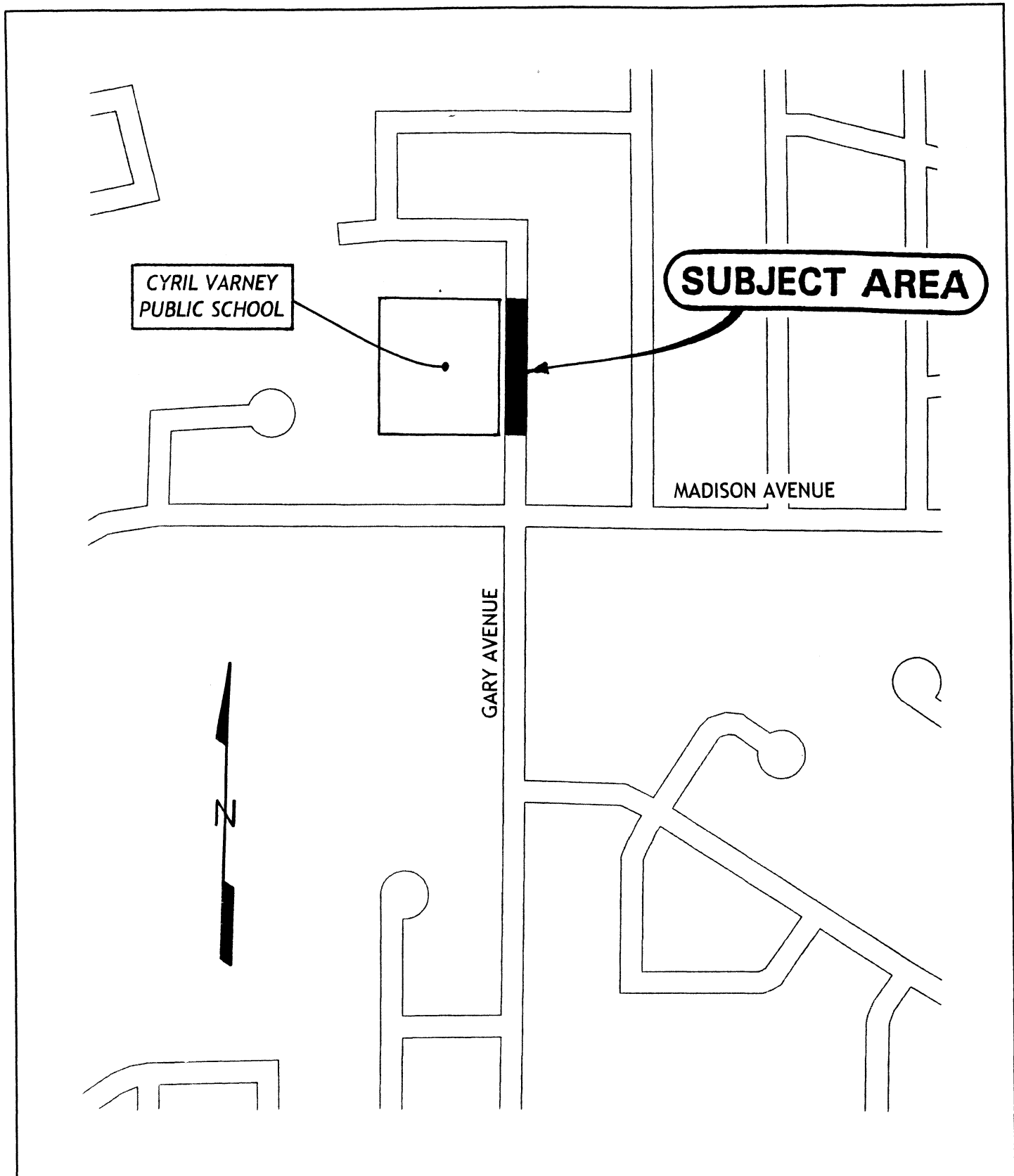
DAVIDSON STREET and  
GARY AVENUE


PARKING RESTRICTIONS

NOT TO SCALE

2009 - 04 - 22

# EXHIBIT: B



	DAVIDSON STREET and GARY AVENUE	
	PARKING RESTRICTIONS	
	NOT TO SCALE	2009 - 04 - 22

**TRAFFIC & TRANSPORTATION  
COMMITTEE**  
Agenda Checklist Form



**PLEASE BE SPECIFIC**

You are responsible for ensuring this form is complete and returned to the Council Secretary.

Meeting Date
<p><b>For the Traffic &amp; Transportation Committee Meeting of:</b></p> <p>May 6, 2009</p> <p>Please complete by 12:00 noon on the Wednesday, three weeks prior to the Meeting. Return this form to Liz Collin, Planning Committee Secretary, 2nd Floor, City Clerks Office.</p>

Type of Report	
	Closed Session
	Delegations
	Public Hearings
<b>Consent Agenda</b>	
<b>x</b>	By-Laws
	Correspondence - Information Only
<b>Regular Agenda</b>	
	Referred/Deferred Matter
	Managers' Reports

Report From				
	C.A.O.		Chief Emergency Services	
<b>x</b>	GM Infrastructure Services		GM Community Development	
	GM Growth & Development		CFO/Treasurer	
	Exec Dir. Administrative Services		Councillor	
	Dir. Human Resources/Organization		Fire Chief	
Report Information				
Recommendation	<b>x</b>	Yes		No
Attachments	<b>x</b>	Yes		No
Date of Report:	April 29, 2009			
Subject Line:	All-Way Stops - Various Locations			

**THE FINAL REPORT, SIGNED BY THE DEPARTMENT HEAD IS DUE IN THE CLERK'S OFFICE BY 9:00 A.M. ON THE THURSDAY TWO WEEKS PRIOR TO THE MEETING. REPORTS RECEIVED AFTER THIS DEADLINE WILL BE PUT ON THE NEXT TRAFFIC & TRANSPORTATION MEETING.**

Report Summary
<p>That All-Way Stop Control not be installed at the following intersections:</p> <ol style="list-style-type: none"> <li>1) Lamothe Street at Lincoln Road</li> <li>2) Woodbine Avenue at Agincourt Avenue</li> </ol> <p>all in accordance with the report from the General Manager of Infrastructure Services, dated April 29, 2009.</p>

**TRAFFIC & TRANSPORTATION  
COMMITTEE**  
Agenda Checklist Form



**PLEASE BE SPECIFIC**

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Meeting Date
<p><b>For the Traffic &amp; Transportation Committee Meeting of:</b></p> <p>May 6, 2009</p> <p>Please complete by 12:00 noon on the Wednesday, three weeks prior to the Meeting. Return this form to Liz Collin, Planning Committee Secretary, 2nd Floor, City Clerks Office.</p>

Type of Report	
	Closed Session
	Delegations
	Public Hearings
<b>Consent Agenda</b>	
<b>x</b>	By-Laws
	Correspondence - Information Only
<b>Regular Agenda</b>	
	Referred/Deferred Matter
	Managers' Reports

Report From				
	C.A.O.			Chief Emergency Services
<b>x</b>	GM Infrastructure Services			GM Community Development
	GM Growth & Development			CFO/Treasurer
	Exec Dir. Administrative Services			Councillor
	Dir. Human Resources/Organization			Fire Chief
Report Information				
Recommendation	<b>x</b>	Yes		No
Attachments	<b>x</b>	Yes		No
Date of Report:	April 17, 2009			
Subject Line:	Parking Restrictions - Davidson Street and Gary Avenue			

**THE FINAL REPORT, SIGNED BY THE DEPARTMENT HEAD IS DUE IN THE CLERK'S OFFICE BY 9:00 A.M. ON THE THURSDAY TWO WEEKS PRIOR TO THE MEETING. REPORTS RECEIVED AFTER THIS DEADLINE WILL BE PUT ON THE NEXT TRAFFIC & TRANSPORTATION MEETING.**

Report Summary
<p>That a By-Law be passed by City Council to amend Traffic and Parking By-Law 2001-1 in the City of Greater Sudbury to legalize the existing parking restrictions on Davidson Street and Gary Avenue all in accordance with the report from the General Manager of Infrastructure Services dated April 17, 2009.</p>

**TRAFFIC & TRANSPORTATION  
COMMITTEE**  
Agenda Checklist Form



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Meeting Date
<p><b>For the Traffic &amp; Transportation Committee Meeting of:</b></p> <p>May 6, 2009</p> <p>Please complete by 12:00 noon on the Wednesday, three weeks prior to the Meeting. Return this form to Liz Collin, Planning Committee Secretary, 2nd Floor, City Clerks Office.</p>

Type of Report	
	Closed Session
	Delegations
	Public Hearings
<b>Consent Agenda</b>	
<b>x</b>	By-Laws
	Correspondence - Information Only
<b>Regular Agenda</b>	
	Referred/Deferred Matter
	Managers' Reports

Report From				
	C.A.O.			Chief Emergency Services
<b>x</b>	GM Infrastructure Services			GM Community Development
	GM Growth & Development			CFO/Treasurer
	Exec Dir. Administrative Services			Councillor
	Dir. Human Resources/Organization			Fire Chief
Report Information				
Recommendation	<b>x</b>	Yes		No
Attachments	<b>x</b>	Yes		No
Date of Report:	April 21, 2009			
Subject Line:	Parking Restrictions - Kantola Road and Dopson Road, Walden			

**THE FINAL REPORT, SIGNED BY THE DEPARTMENT HEAD IS DUE IN THE CLERK'S OFFICE BY 9:00 A.M. ON THE THURSDAY TWO WEEKS PRIOR TO THE MEETING. REPORTS RECEIVED AFTER THIS DEADLINE WILL BE PUT ON THE NEXT TRAFFIC & TRANSPORTATION MEETING.**

Report Summary
<p>Ward 2 Councillor, Jacques Barbeau, and area residents of Kantola Road asked City staff to review parking problems on Kantola Road in the area of the municipally owned boat launch. This report will provide a recommendation for parking restrictions on Kantola Road and Dopson Road all in accordance with the report from the General Manager of Infrastructure Services dated April 21, 2009.</p>

**TRAFFIC & TRANSPORTATION  
COMMITTEE**  
Agenda Checklist Form



**PLEASE BE SPECIFIC**

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Meeting Date
<p><b>For the Traffic &amp; Transportation Committee Meeting of:</b></p> <p>May 6, 2009</p> <p>Please complete by 12:00 noon on the Wednesday, three weeks prior to the Meeting. Return this form to Liz Collin, Planning Committee Secretary, 2nd Floor, City Clerks Office.</p>

Type of Report	
	Closed Session
	Delegations
	Public Hearings
<b>Consent Agenda</b>	
	By-Laws
	Correspondence - Information Only
<b>Regular Agenda</b>	
	Referred/Deferred Matter
<input checked="" type="checkbox"/>	Managers' Reports

Report From			
	C.A.O.		Chief Emergency Services
<input checked="" type="checkbox"/>	GM Infrastructure Services		GM Community Development
	GM Growth & Development		CFO/Treasurer
	Exec Dir. Administrative Services		Councillor
	Dir. Human Resources/Organization		Fire Chief
Report Information			
Recommendation	<input checked="" type="checkbox"/>	Yes	No
Attachments	<input checked="" type="checkbox"/>	Yes	No
Date of Report:	April 23, 2009		
Subject Line:	Pedestrian Countdown Timers		

**THE FINAL REPORT, SIGNED BY THE DEPARTMENT HEAD IS DUE IN THE CLERK'S OFFICE BY 9:00 A.M. ON THE THURSDAY TWO WEEKS PRIOR TO THE MEETING. REPORTS RECEIVED AFTER THIS DEADLINE WILL BE PUT ON THE NEXT TRAFFIC & TRANSPORTATION MEETING.**

Report Summary
<p>This report will provide a summary of the effectiveness of pedestrian countdown timers and provide a recommendation for the further expansion of the program all in accordance with the report from the General Manager of Infrastructure Services dated April 23, 2009.</p>