

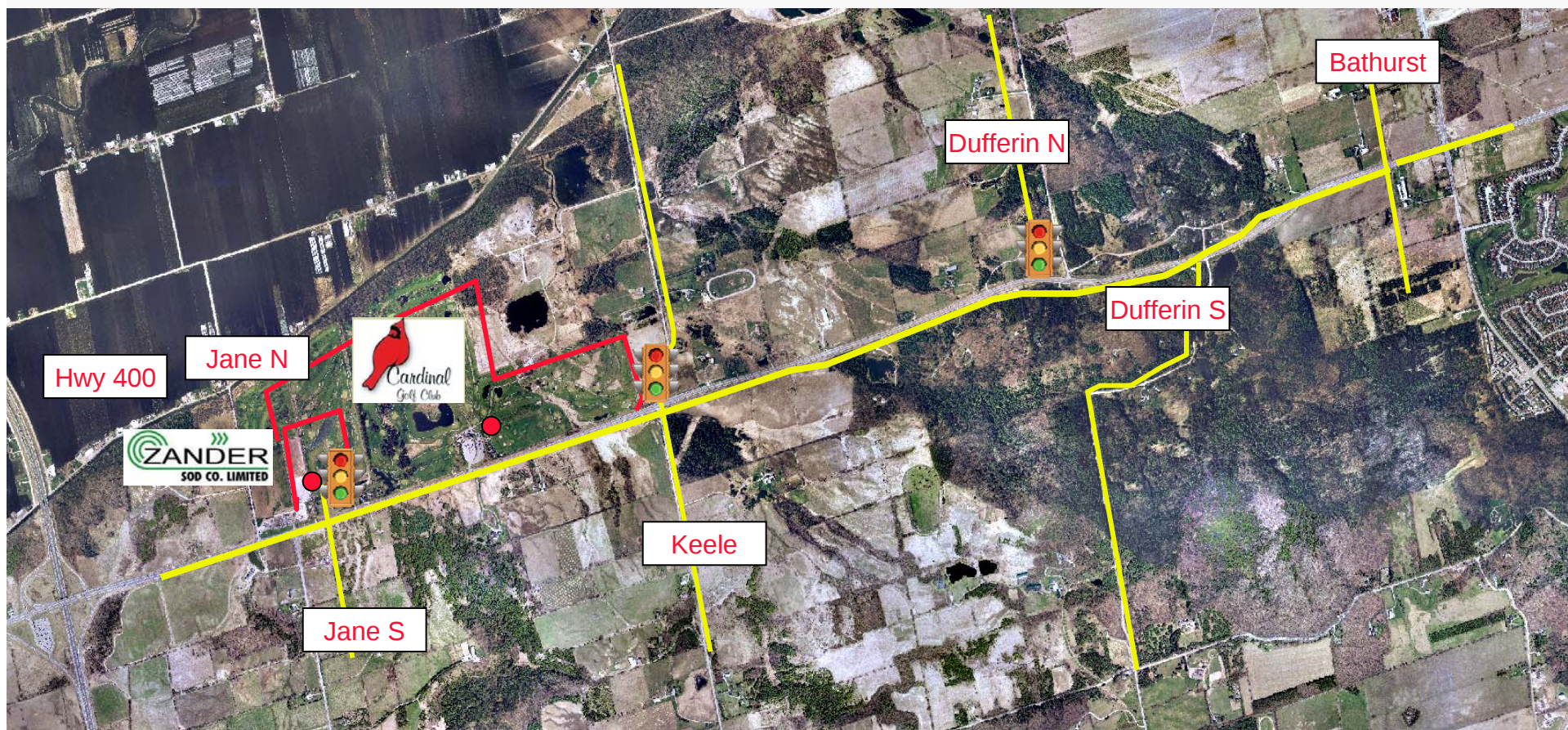
Davis Drive West

Evaluation of Traffic Control Signals

Transportation and Works Committee
April 9, 2008

Outline

- Background
- Evaluation of Traffic Control signals
- Recommendations



Background

- ❑ February 6, 2008 staff recommendation that no signals be installed at any location on Davis Drive West in accordance with Regional Policy
- ❑ T&W Committee recommend that staff convene a meeting of all interested parties to discuss possible locations for traffic signals and report back on April 9, 2008
- ❑ Regional staff met with representatives from York Police, the Township of King, the Town of Newmarket, Dalt Hicks, owner of Cardinal and Klaus Zander, owner of Zander Sod on February 27, 2008

Towards a Solution

- ❑ There are two identified traffic issues on Davis Drive West
 - ❑ Accessing the roadway from Jane/Keele/Dufferin
 - ❑ Accessing the roadway from Cardinal/Zander Sod
- ❑ Since minimum warrants for traffic control signals were not met, the group evaluated each location using the following criteria:
 - ❑ Traffic Volume
 - ❑ Community Impact
 - ❑ Ease of Access from Cardinal Golf Club
 - ❑ Meets current Regional signal Policy

Signals at Jane Street / Zander Sod

• Pros

- Ease of access for local street traffic from Kettleby community and Zander Sod
- May provide some benefit to existing Cardinal Golf Club access

• Cons

- Increase in traffic into the community of Kettleby
- Increase in delay to commuter traffic on Davis Drive West
- Traffic control signals do not meet minimum warrants as per Regional Policy

Signals at Keele Street

• Pros

- Ease of access for local street traffic
- Highest volume of all municipal intersections
- The only cross intersection
- Minimal benefit to the existing Cardinal Golf Club access

• Cons

- Increase in traffic into the communities and onto the local streets north and south of Davis Drive
- Increase in delay to commuter traffic on Davis Drive West
- Traffic control signals do not meet minimum warrants as per Regional Policy

Signals at Dufferin Street North

• Pros

- Ease of access for local street traffic onto Davis Drive West from the community of Ansnorveldt

• Cons

- Increase in traffic into the community of Ansnorveldt and local roads north of Davis Drive West
- Increase in delay to commuter traffic on Davis Drive West
- No benefit to existing Cardinal Golf Club access
- Traffic control signals do not meet minimum warrants as per Regional Policy

Signals at Cardinal Golf Club

• Pros

- Ease of access for patrons and employees
- Least impact to local communities and commuter traffic as trips are all day and outside peak hours and on weekends
- May provide some gaps for Zander Sod

• Cons

- Increase in delay to patrons exiting during off peak hours
- Increase in delay to commuter traffic on Davis Drive West
- Traffic control signals do not meet minimum warrants as per Regional Policy

Technical Evaluation of Signals

Table 1

Technical Evaluation of Traffic Control Signals on Davis Drive West

Intersection	Traffic Volume	Community Impact	Ease of Access from Cardinal Golf Club	Meets Current Regional Signal Policy	Total Score
Jane Street South/ Zander Sod Farm	4	7	6	No	17
Keele Street	6	4	4	No	14
Dufferin Street North	5	1	1	No	7
Cardinal Golf Club	10	10	10	No	30

Recommendations

- ❑ Regional staff recommend that signals not be installed at any location on Davis Drive West in accordance with Regional Policy
- ❑ Based on discussions with all interested parties the locations for signals that would have the least impact to local communities, minimize traffic delay on Davis Drive West and maintain driver expectancy are:
 - ❑ The entrance to Cardinal Golf Club
 - ❑ Jane Street South/Zander Sod
- ❑ The recommendations of the previous report be adopted
 - ❑ Intersection ahead signs be installed
 - ❑ Flashing beacons be installed in the area of Dufferin Street
 - ❑ Centre line rumble strips through the horizontal and vertical curves
 - ❑ Reduction in speed limit to 200 metres west of Bathurst Street
 - ❑ Pavement markings be modified to assist speed reduction
 - ❑ Modifications to off ramp from Hwy 400

Hwy 400 to Keele Street



Keele Street to Dufferin Street



Dufferin Street to Bathurst Street

