COMMITTEE OF THE WHOLE JUNE 18, 2001

ROAD RESURFACING, ROAD RECONSTRUCTION AND RURAL ROADS UPGRADING PROGRAM

Recommendation

The Commissioner of Development Services & Public Works recommends:

1) That the 2001 Road Resurfacing Program, Project 1140.3, consisting of the following locations be endorsed by Council:

Edgeley Blvd	from	Applewood to 150 metres north of Pennsylvania
Clarence St.	from	Meeting House to Humber River and
		Langstaff to 350 metres north
Chancellor Dr.	from	Pine Valley to Aberdeen
Harris Cres.	from	Martin Grove to Martin Grove
Tall Grass Tr.	from	Pine Valley to end
Birch Meadow	from	Tall Grass to end
Timber Ln.	from	Tall Grass to Tall Grass

2) That the 2001 Rural Roads Upgrading Program, Project 1186.1, consisting of the following locations be endorsed by Council:

Kirby Rd. from Pine Valley to 240 metres east of Kipling Kirby Rd. Pine Valley to Stephanie

That the Director of Engineering be authorized to employ professional Engineering Services for the implementation of the Rural Road Upgrading Project, not exceeding \$90,000 in fees.

Purpose

To seek Council endorsement of the proposed locations for the 2001 Road Resurfacing and 2001 Rural Roads Upgrading projects and approval for the employment of Professional Engineering services for the implementation of the 2001 Rural Roads Upgrading Project.

Background - Analysis and Options

Road Resurfacing Program - Evaluation Process

In preparation of the list of recommended locations for road resurfacing in 2001, staff have:

- reviewed the 2000 Road Resurfacing Program (Attachment No. 1) endorsed by Council on July 11, 2000 per Item 15, Report No. 59,
- reviewed the 2000 Road Needs Update report,
- Investigated requests from Council and/or residents, and
- Visited and visually inspected all potential locations identified above.

Due to changes in pavement conditions since 1995 as revealed in the 2000 Road Needs Update, the priorities have changed as well as the type of rehabilitation work required. A number of streets identified for re-surfacing in 1995 now require reconstruction for a complete rehabilitation.

The locations endorsed by Council on July 11, 2000 for road resurfacing for implementation in 2000 were commenced in October 2000 and are scheduled for completion by July 2001. The remaining locations on the 2000 list are updated and included on two separate lists prepared by staff for road resurfacing and road reconstruction according to the type of rehabilitation work required and changes in priority ratings. The Road Resurfacing Program – 2001 List and Road Reconstruction Program – 2001 List are included as Attachments No. 2 and 3 respectively.

Note – priority ratings in the tables (Attachments) are calculated based on a systematic evaluation process which incorporates the following factors:

- Traffic usage/functionality
- Physical characteristics and road standards
- Physical conditions specifically structural adequacy, crack density, utility cuts, settlement and potholes as well as cement road drainage provisions
- Any deficiencies of existing underground services that need to be addressed before road rehabilitation

2001 Road Resurfacing Program - Highlights

From staff's evaluation, the following highlights should be noted:

- Sections of Rivermede Road, between Highway 7 and Keele Street are identified for either resurfacing or reconstruction, depending on the conditions of each section of road. Therefore, resurfacing items RS01-1 and RS01-4 (Attachment 2) have been incorporated with item RC01-2 for reconstruction (Attachment 3). Staff are presently commencing preliminary engineering (survey and geotechnical investigation) in preparation for design. This project will be tendered late this year for spring 2002 construction to avoid conflict with anticipated fall 2001 reconstruction of Bowes Road.
- 2. Item RS01-2, Albion-Vaughan Road is a boundary road between the City and the Town of Caledon. Staff will initiate a request for cost sharing with the Town and recommend a deferral until such an agreement has been negotiated.
- 3. Item RS01-7, Forest Drive has been recently patch repaired by Public Works and staff recommend resurfacing be deferred to later years to be resurfaced in conjunction with other streets in the vicinity.
- 4. Item RS01-9, 11, 13 and 16 are streets in the Uplands Area of Thornhill. Watermains have just been replaced on some of the streets and watermains must be replaced on remaining streets in the area. Staff recommend that the road rehabilitation work in the Uplands Area be deferred to 2002, to follow completion of watermain replacement for the area, which will also be proposed for 2002.
- 5. Item RS01-10, Quail Run is also recommended by staff to be deferred to be resurfaced/reconstructed in conjunction with other streets in the vicinity which are in a lower priority.
- 6. Through various requests from residents or Members of Council, Items Item RS01-18 through 34 have been re-inspected by staff and been found to have a lower priority than those streets which are recommended for resurfacing this year (as listed below). Should costs be lower than estimated and surplus funds become available, staff will add additional roads to the 2001 program based on their ranking.

The funding approved for Road Resurfacing Project 1140.3 in 2001 is \$600,000.

Taking into account the road sections in order of priority, the above recommended deferrals and the available funding the following road sections are recommended for resurfacing this year.

				Estimated Cost
RS01-3	Edgeley Blvd	from	Applewood to 150m N. of Pennsylvania	\$132,000
RS01-5	Clarence St.	from	Meeting House to Humber River	\$ 25,000
RS01-6	Chancellor Dr.	from	Pine Valley to Aberdeen	\$100,000
RS01-8	Harris Cres.	from	Martin Grove to Martin Grove	\$ 57,000
RS01-12	Clarence St.	from	Langstaff to 350m north	\$ 47,000
RS01-14	Tall Grass Tr.	from	Pine Valley to end	\$100,000
RS01-15	Birch Meadow	from	Tall Grass to end	\$ 35,000
RS01-17	Timber Ln.	from	Tall Grass to Tall Grass	\$ 75,000
			Total	\$571,000

Roads that require more rehabilitation work than just resurfacing will be proposed as separate projects for reconstruction in the 2002 Capital Budget and Forecast.

2001 Rural Roads Upgrading Program- Evaluation Process

On June 26, 1995, per Item 34, Report No. 16, Council received the Rural Roads Upgrade Study and adopted Schedule I of the study as a priority list for rural road improvement projects to be used for capital budget planning purposes. On July 11, 2000, per Item 15, Report No. 59, Council endorsed staff's recommendation that the funds allocated to the 2000 Rural Road Upgrading project (Project No. 1186.0) be reallocated to the 2000 Road Resurfacing Program (Project No. 1140.2) to increase the extent of resurfacing work in 2000.

In preparation of the list of recommended locations for rural road upgrading in 2001, staff have reviewed:

- reviewed the 1995 Rural Roads Upgrade Study,
- reviewed the 2000 Road Needs Update report,
- investigated requests from Council and/or residents, and
- inspected all potential locations.

Due to changes in pavement conditions since 1995 the priorities have changed. The updated Rural Road Upgrading Program list is included as Attachment No. 4.

2001 Rural Roads Upgrading Program - Highlights

- Item RR01-1, Kirby Road from 1.0km West of Highway 27 to Highway 27
 Item RR01-2, Huntington Road from Highway No. 7 to Fogal Road
 Item RR01-4, King-Vaughan Road from Keele Street to Dufferin Street
 Item RR01-5, Huntington Road from Fogal Road to Langstaff Road, do not warrant upgrading at present due to low traffic volume or pending development.
- 2. Item RR01-3, Teston Road from Dufferin Street to Quail Run Blvd., has been transferred to York Region.

3. Item RR01-6, Kirby Road from Albion Vaughan Road to Cold Creek Road Item RR01-7, Cold Creek Road from Nashville Road to Kirby Road, Item RR01-8, Huntington Road from Nashville Road to 0.3km South of Kirby Road Item RR01-9, Mill Road from King-Vaughan Road to King-Vaughan Town Line, are considered unwarranted either due to low traffic volume or the distance from the City center.

Staff recommend that Item RR01-10 be included in the 2001 Rural Roads Upgrading Project, comprising Kirby Road from Kipling to Pine Valley, and further extend east of Pine Valley to Stephanie Blvd.

The funding approved for Road Resurfacing Project 1186.1 in 2001 is \$700,000

Taking the road sections in order of priority, the above recommended deferrals, and the available funding, the following rural road sections could be upgraded this year:

				Estimated Cost
RR01-10	Kirby Rd.	from	Pine Valley to 240m E. of Kipling	\$455,000
RR01-15	Kirby Rd.	from	Pine Valley to Stephanie	<u>\$185,000</u>
			Total	\$640,000

Due to the timing of the project and the current commitments of in house resources to the 2001 Capital Budget Workplan staff also recommend the employment of Professional Engineering services for the design of the Rural Road Upgrading Project for 2001.

Road Reconstruction

Staff have included Attachment 3 in order to apprise Council of those roads which will be reconstructed this year through individual projects approved in the 2001 Capital Budget.

Future Road Resurfacing Program Funding Needs

Staff also wants to draw Council's attention to the fact that the 2000 Road Needs Study has determined that there are far more roads in need of resurfacing than the current budget allocated to resurfacing will allow us to complete. The current funding level of \$600,000 annually allows the City to resurface about 4 kilometres of road annually. Of the approximately 600 kilometres of urban/paved roads in the City, approximately 50 kilometres require resurfacing within the next five years. At current funding levels then, it would take over 12 years to resurface what needs to be done in the next 5 years. Staff estimate that 2002 and subsequent years' funding must increase to \$2 million annually to keep up with resurfacing needs. The alternative is to risk further deterioration of the roads to the point that reconstruction is required

Conclusion

With Council's approval of the recommended roads for resurfacing on rural road upgrading, staff will proceed to design and tender these roadworks this summer in time for construction and completion this fall. Staff will also continue to work towards the development of a pavement management system (PMS). The PMS will enable staff to recommend a more extensive road resurfacing and reconstruction program for Council's consideration during the 2002 Capital Budget process.

Attachments

- 1. Road Resurfacing/Reconstruction Program 2000 List
- 2. Road Resurfacing Program 2001 List
- 3. Road Reconstruction Program 2001 List
- 4. Rural Roads Upgrading Program 2001 List
- 5. Location Map for Road Resurfacing 2001
- 6. Location Map for Rural Road Upgrading 2001

Report prepared by:

Frederick Lam, P. Eng. – Design Engineer, ext. 8638 Dan Stevens, P. Eng. – Manager of Eng./Const. Services, ext. 8257

Respectfully submitted,

FRANK MIELE Commissioner of Development Services & Public Works Bill Robinson, P. Eng. Director of Engineering

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RS04.3	EDGELLY BLVD.	37	APPLEWOOD CRES	0,15 km Aurth Pensylvania Ake	0.03	WDGSTRAM.	URBAN	\$132,000.00	Propertied 2001 Candidate
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R501.17	REDVITE CLARENCE ST.	20	LANGSTAFF RD.	350m NORTH	350	COLLECTHES.	URBAN	\$47,000.00	Proposed 2001 Candidate
RS01-13	FARLERANE	30	INVERSIDE BLVD	DIORNAL AVE	102	LOCAL	RIFFAL	120,000,00	Determine to 2022, when comparison of segment of option most to the Uplace Actor
RS01-14	TALL GRASS TRAIL	1.0	FINE VALLEY DR.	CN3 II	1000	LOCAL	URBAN	\$100,000.00	,,,,,
RS01.15	RS01-15 BIRCH MEADOW	120	TALL GRASS THAIL	END	358	LOCAL	URBAN	\$35,000.00	Proposed 2001 Candidate
RS01-10	UNIVERSIT AVE	9	YCHOE ST.	ovg.	500	LOGAL	UFFERSY	\$55,000.00	Delenat to 2022, also compared or water-sam replacement in the Upper Anna
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8501-13	DANIDRONDA	0	INDIGITOR AVE.	LLOYD ST.	300	TOCAL	DEBAN	\$30,000,002	To be watched in 2000-2007 Resurbang Program
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RS01.29	1	(6)	LEWIS DR.	MODISTONE RIACE	308	LOCAL	UNIBAN	\$43,000.00	To be included in 2002-2007 Resoftway Program
REGET 311	BUCARBURNICHT	+	DOLF AVE	NORTHEND	00	(CICA)	UREAN	\$14,000.00	To be included in 2002-2007 Resortancy Program
RS01-31	1.75	*	GOLF AVE.	WORTH END.	320	1,0CM.	URBAN	\$17,000.00	To be included in 2003-2007. Results by Prepart
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ATTACHMENT No. 5 Langstoff Highway Highway No. 407 ROAD RESURFACING PROJECT 2001 LEGEND SUBJECT ROADS NOT TO SCALE DITY OF VALIDARY - ENDMODRING SCRAFFICHT

