

REGIONAL MUNICIPALITY OF OTTAWA CARLETON
MUNICIPALITÉ RÉGIONALE D'OTTAWA CARLETON

MEMORANDUM
NOTE DE SERVICE

Our File/N/Réf. 25 67-97-2001
Your File/V/Réf.

Information Previously Distributed To Be Listed on Transportation Committee Agenda	7 May 97
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DATE 21 April 1997

TO/DEST. The Chair and Members of Council

FROM/EXP. Director Infrastructure Maintenance Division
Environment and Transportation Department

SUBJECT/OBJET **1997 RESURFACING PROGRAMME**

BACKGROUND

The Department's 1997 Resurfacing Programme was circulated in draft form to all Regional Councillors, Regional Departments, Area Municipalities, Utility Companies and the Regional Cycling Advisory Group in November 1996 and February 1997.

The finalized programme based on the comments received and follow-up investigations is outlined in Annex A.

Pavement structural and condition information along with traffic loading data and other information is used by the Department's Pavement Management System to determine the optimum time (time that provides the lowest life cycle cost) for resurfacing work. If resurfacing is delayed beyond this optimum time, the pavement structure starts to rapidly deteriorate toward a "failed" state and road maintenance costs increase dramatically.

The most cost-effective treatment for "failed" pavements is total reconstruction. Since this costs about 10 times as much as resurfacing, it is important to carry out "preventative maintenance" works in a timely fashion.

Some road sections with "failed" pavements are included on the 1997 Resurfacing Programme due to limited reconstruction capital budgets. The objective for these pavements is to apply the most economical maintenance strategies required to keep these road sections in at least a minimal safe and passable condition pending reconstruction. Depending on the construction schedule envisioned in the Capital Budget and other variables, these strategies will range from carrying out very localized repairs (e.g. spot repairs around catchbasins and other iron works, severe areas of cracking, etc.) to full resurfacing.

Since the 1997 Resurfacing Capital Budget is insufficient to cover all of the 1997 needs, subject to the identification of further conflicts, works shown in Annex A will be carried out in order of priority down to the limit of the available funding.

Should insufficient funds exist to complete a prioritized location on the list, this location will be passed over and the next location(s) that can be completed within the budget allocation will be selected.

Based on the preliminary cost estimates, it is expected that it will be possible to complete works at all locations, excluding those with conflicts, down to rank 36 on the attached list in 1997.

The actual number of road sections that will be completed will depend on tender prices received.

Works not constructed in 1997, due to lack of funding or due to co-ordination conflicts, will be carried over for reconsideration in the 1998 programme.

In 1997, the Department will use "hot-in-place" recycling and continue to employ "cold-in-place" recycling and cold milling rehabilitation strategies on various projects to significantly reduce the amount of new aggregate and asphalt used (non-renewable natural resources).

Revised quality control procedures and new asphalt materials introduced in recent years are expected to reduce life-cycle costs.

Some examples of staff initiatives in this area include the implementation of "end-result" contract specifications, the use of "thin lift nuclear density gauges" to measure asphalt compaction the use of polymer modified asphalts and the use of "state-of-the-art" materials testing procedures and equipment.

It has been found that a 1% improvement in pavement process control can increase the length of the pavement life cycle by 10%.

If you require additional information, please do not hesitate to contact Mr. L.A. Ross (Ext. 1114) or Mr. W.S. Beveridge (Ext. 1113).

*Approved by
L.A. Ross for W.S. Beveridge*

LAR/ms

Attach. (1)

1997 RESURFACING PROGRAMME

PRIORITY	STREET	FROM	TO	PROPOSED WORK
1	TRAIL RD	MOODIE DR	RMOC LANDFILL SITE	Pulverized and two lifts asphalt
2	BRONSON AVE S/B	RIDEAU CANAL BRIDGE	SUNNYSIDE AVE	Coordinated with Engineering Services, asphalt portion
3	BRONSON AVE	DUNBAR BRIDGE	SUNNYSIDE AVE	Coordinated with Engineering Services, asphalt portion
4	ISABELLA ST	BANK ST	ELGIN ST	Mill and Overlay
5	SUSSEX DR	0.1 km S OF RIDEAU ST	MURRAY ST	Defer - Embassy Construction
6	HAWTHORNE RD	HUNT CLUB RD	RUSSELL RD	Defer - Reconstruction 1998
7	RIVERSIDE DR	OTTAWA CITY LIMITS	BEG OF CURBS	Defer - RMOC Watermain
8	ME'ICALFE ST	LAURIER AVE	WELLINGTON ST	Mill and Overlay
9	ST PATRICK ST	SUSSEX DR	DALHOUSIE ST	Defer - Ottawa Sewer
10	MOODIE DR	FITZGERALD RD	CORKSTOWN RD	Defer - Nepean Sewer
11	LAURIER AVE	TRANSITWAY	CHARLOTTE ST	Coordinated with Engineering Services, asphalt portion
12	RICHMOND RD	GOLDEN AVE	WESTERN	Defer - Ottawa Sewer - Spot Repairs 1997
13	WOODROFFE AVE	ADIRONDACK DR	QUEENSWAY	Mill and Overlay
14	SLATER ST	BANK ST	ELGIN ST	Mill and Overlay
15	KING EDWARD AVE	LAURIER AVE	RIDEAU ST	Defer - Water and Sewer
16	WELLINGTON ST	ISLAND PARK DR	HOLLAND AVE	Defer - Ottawa Sewer - Spot Repairs 1997
17	CATHERINE ST	BRONSON AVE	ELGIN ST	Coordinated with Engineering Services, asphalt portion
18	CARLING AVE	HERTZBERG RD	MOODIE DR	Cold In Place Recycling
19	LEES AVE	MAIN ST	QUEENSWAY	Mill and Overlay
20	FISHER AVE	MEADOWLANDS DR	BASELINE RD	Mill and Overlay (2 lifts min)
21	ELGIN ST	PRETORIA BRIDGE	LAURIER AVE	Defer - Ottawa Sewer - Spot Repairs 1997
22	ELGIN ST	LAURIER AVE	WELLINGTON ST	Delete- Wellington St & NCC construction
23	MITCH OWENS RD (RR#8)	RIVER RD (RR#19)	HWY#31	Cold In Place Recycling
24	DWYER HILL RD(RR#3)	FRANKTOWN RD (RR#10)	JOCK RIVER	Cold In Place Recycling
25	DWYER HILL RD(RR#3)	JOCK RIVER	HWY # 7	Hot In Place Recycling
26	CHURCHILL AVE	CARLING AVE	SCOTT ST	Mill and Overlay
27	LYON ST	SOMERSET ST	ALBERT ST	Defer - Spot Repairs Done in 1996/Sidewalk
28	CYRVILLE RD	INNES RD	OGILVIE RD	Mill and Overlay
29	CARLING AVE	CHURCHILL AVE	KIRKWOOD AVE	Joints, Mill and Overlay
30	BANK ST	SURREY AVE *	ALTA VISTA DR	Mill and Overlay
31	SISKEN CRT	McCLELLAND RD	CUL-DE-SAC	Microsurfacing
32	CARLING AVE	MOODIE DR	RICHMOND RD	Hot In Place Recycling
33	ME'ICALFE ST	ISABELLA ST	ARGYLE ST	Mill and Overlay
34	CARLING AVE EASTBOUND	PRESTON ST	BRONSON AVE	Joints, Mill and Overlay
35	CARLING AVE WESTBOUND	SHERWOOD DR	BRONSON AVE	Joints, Mill and Overlay

PRIORITY	STREET	FROM	TO	ROPOSED WORK
36	FRANKTOWN RD (RR#10)	MUNSTER SIDE RD (RR#45)	CONLEY RD	Hot In Place Recycling
37	STEWART ST	WALLER ST	KING EDWARD AVE	Defer - Ottawa Sewer
38	HAWTHORNE AVE	ELGIN ST	MAIN ST	Remove Composite Pavement, Full Depth Asphalt
39	WALLER ST	STEWART ST	DALY AVE	Defer - MacKenzie King Bridge
40	MARVELVILLE RD (RR#4)	YORKS CORNERS RD (RR#29)	GREGOIRE RD (RR#41)	Patch and Overlay
41	RR#174 EASTBOUND	1 km FROM HWY#417	3 km FROM HWY#417	Mill and Overlay
42	RR#117	HWY#417 and HWY#15	HWY#417	Mill and Overlay
43	MURRAY ST	MACKENZIE AVE	SUSSEX DR	Defer - Embassy Construction
44	HUNT CLUB RD	HWY#16	RIVERSIDE DR	Mill and Overlay
45	MERIVALE RD	JAMIE AVE	WOODFIELD DR	Mill and Overlay
46	KENT ST	SOMERSET ST	ALBERT ST	Mill and Overlay
47	MERIVALE RD	CALDWELL AVE	KIRKWOOD AVE	Mill and Overlay
48	HERON RD	RIVERSIDE DR	BRONSON AVE	Hot In Place Recycling
49	HERON RD	BRONSON AVE	BANK ST	Hot In Place Recycling
50	EAGLESON RD (RR#49)	CADENCE GATE	HAZELDEAN RD (RR#36)	Spot Repairs - Iron Works
51	MOODIE DR (RR#59)	CORKSTOWN RD (RR#18)	CARLING AVE (RR#36)	Cold In Place Recycling
52	MAIN ST	TORONTO ST	COLONEL BY DR	Mill and Overlay
53	MEADOWLANDS DR	WOODROFFE AVE	MERIVALE RD	Hot In Place Recycling
54	HOLLAND AVE	CARLING AVE	WELLINGTON ST	Defer - Ottawa Sewer
55	FALLOWFIELD RD (RR#12)	EAGLESON RD (RR#49)	RICHMOND RD (RR#59)	Cold In Place Recycling
56	MERIVALE RD	MACFARLANE RD	JAMIE	Mill and Overlay/Hot In Place
57	RIVERSIDE DR	WALKLEY RD	HOG'S BACK RD	Mill and Overlay/Hot In Place
58	ALBERT ST	BANK ST	ELGIN ST	Mill and 2 lifts Overlay
59	OLD HWY#31 (RR#85)	MITCH OWENS RD (RR#8)	LEITRIM RD (RR#14)	Cold In Place Recycling with 2 lifts Overlay
60	PARKDALE AVE	CARLING AVE	WELLINGTON ST	Hot In Place Recycling
61	DONNELLY RD (RR#2)	DWYER HILL RD (RR#3)	BECKETT'S LANDING RD (RR#5)	Cold In Place Recycling with Overlay
62	GREENBANK RD	JOCKVALE RD	MALVERN DR	Mill and 2 lifts Overlay
63	KING EDWARD AVE	RIDEAU ST	ST PATRICK ST	Mill and Overlay
64	HERON RD	BANK ST	WALKLEY RD	Hot In Place Recycling
65	BOOTH ST	PRIMROSE AVE	ALBERT ST	Hot In Place Recycling
66	KING ED A V RAMP	BOTELER ST ENT	SUSSEX DR	Mill and Overlay
67	RICHMOND RD	HOPE SIDE RD	SEYTON RD	Hot In Place Recycling
68	GREENBANK RD	FALLOWFIELD RD	KNOXDALE RD	Mill and 2 lifts Overlay
69	INNES RD (RR#30)	BLACKBURN BYPASS	MER BLEUE	Mill and 2 lifts Overlay
70	PLACE D'ORLEANS BLVD	ST. JOSEPH BLVD (RR#34)	CHAMPLAIN ST (RR#39)	Mill and Overlay
71	HERON RD W/B RAMP	VMP PARKING LOT	HERON RD	Hot In Place Recycling

* note limits extended from
circulated limits