

## MEMORANDUM

To: Robert Kosin, VBH Director of Administration  
Patty Meroni, VBH Chairman Roads & Bridges

From: Daniel J. Strahan, P.E., CFM  
Gewalt Hamilton Associates

Date: February 20, 2015

Re: Multi-Year Road Program

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At the January 2015 Village Board meeting, the Board discussed the 2014 Pavement Condition Study. The study had included two options to consider for a five-year plan to approach the roadway improvements, covering the years 2015-2019. After discussion regarding the length and approach of the proposed road program at the January meeting, the Board requested the presentation of additional options to consider at the February meeting.

We have included for the Board packet six options for consideration of the Board, which were developed based on the two options initially presented for a five-year road program. Options 1A, 1B, and 1C each target 3.2 miles of resurfacing per year over a period of 5-years, 7-years, and 10-years, respectively. Options 2A, 2B, and 2C include an accelerated resurfacing approach to eliminate approximately 4.5 miles of "backlog" due to deferred maintenance over the last several years, again using plan durations of 5-years, 7-years, and 10-years respectively. The following is noted as the board considers the various plan options:

- **Jurisdiction-** There is often confusion regarding which roads located within Barrington Hills are maintained by the Village. A list of every road within the Village is attached for reference noting the various jurisdictions involved. The plans have been prepared based on the 39 miles of road maintained by Barrington Hills, and do not include those roads maintained by IDOT, the counties, or privately maintained roads.
- **Approach-** As noted, we have suggested two potential resurfacing approaches: (1) Resurface an average of 3.2 miles of roadway per year to maintain current overall pavement conditions, and (2) Pursue an accelerated approach to improve overall pavement conditions. Preliminary budget amounts are shown for each option, both in 2015 dollars and adjusted for inflation. For reference the 2015 budget line item for Road Maintenance Contracts includes approximately \$986,000 for the road resurfacing program.
- **Plan Duration-** Each approach is shown carried out through a 5-year, 7-year, or 10-year time frame based on the discussion of the Board in January. As noted previously, we had recommended a 5-year plan based on our experiences having to consistently revisit and modify the final years of a 10-year plan. If a longer range plan is desired we would reiterate that it should be considered a flexible planning document, especially in the later years of the plan.

**Village of Barrington Hills  
Roadway List by Jurisdiction**

<u>Name</u>	<u>Length</u>	<u>From</u>	<u>To</u>	<u>Jurisdiction</u>	<u>County</u>
Bateman Road	3.7	Penny Road North	Lake Cook Road	County	Cook
Brinker Road	3	Lake Cook Road South	Algonquin Road	County	Cook
Donlea Road	1.4	Lake Cook Road South	Sutton Road	County	Cook
Old Sutton Road	4.25	Lake Cook Road South	N. of Penny Road	County	Cook
Otis Road	2.7	Old Sutton Road East	Dundee Avenue	County	Cook
Palatine Road	1.4	Stover Road East	Village Limits	County	Cook
Penny Road	2.4	Old Sutton Road West	Village Limits	County	Cook
<b>TOTAL:</b>		<b>18.9</b>			

<u>Name</u>	<u>Length</u>	<u>From</u>	<u>To</u>	<u>Jurisdiction</u>	<u>County</u>
Algonquin Road (62)	5.2	Village Limits West	Elgin Road (25)	State	Cook, Kane
Barrington Road	0.25	Village Limits South	Palatine Road	State	Kane
Dundee Road	5.5	Barrington Road West	Village Limits	State	Cook
Elgin Road (25)*	0.8	Algonquin Road (62) South	Bolz Road	State	Cook
Hawthorne/New Sutton Road (59)	2.5	Dundee Lane South	Village Limits	State	Cook
Lake Cook Road*	5.6	Haeger's Bend Road East	Village Limits	State	Cook, Lake
<b>TOTAL:</b>		<b>19.9</b>			

\*Note: Jurisdiction of County Line Road west of power lines and Elgin Road North of IL Rte 62 is McHenry County DOT

<u>Name</u>	<u>Length</u>	<u>From</u>	<u>To</u>	<u>Jurisdiction</u>	<u>County</u>
Aberdeen Drive	0.2	Crabapple Road	East & West	Village	Cook
Barrington Hills Road	0.5	Donlea Road North	End	Village	Cook
Butternut Road	0.4	Donlea Road South	End	Village	Cook
Caesar Drive	0.8	Lake Cook Road South	End	Village	Cook
Country Oaks Drive	0.6	Lake Road Road North	End	Village	McHenry
County Oaks Lane	0.3	Country Oaks Drive West	End	Village	McHenry
Crabapple Road	0.3	Donlea Road South	End	Village	Cook
Creekside Lane	1.2	Old Sutton Road East	in Cricle	Village	Cook
Cross Timbers Road	0.3	Braeburn Road East	End	Village	McHenry
Dana Lane	0.2	Caesar Drive West	End	Village	Cook
Healy Road	0.7	Penny Road	Village Limits	Village	Cook
Hickory Lane	0.2	Merri Oaks Road North	End	Village	Lake
Honeycut Road	0.2	Hills & Dales Road South	End	Village	Cook
Lake View Lane	0.4	Dundee Road (68) North	End	Village	Cook
Leeds Drive	0.2	Crabapple Road West	End	Village	Cook
Little Bend Road	0.7	Spring Lane	End	Village	McHenry
Longmeadow Court	0.1	Longmeadow Drive North	End	Village	Cook
Longmeadow Drive	0.4	Bateman Road West	Rolling Hills Drive	Village	Cook
Old Bartlett Road	0.2	Bartlett Road	Cul-de-Sac	Village	Cook
Old Dundee Road	1.4	Routes 58 & 68 South	Cul-de-Sac	Village	Cook
Rebecca Drive	0.3	Old Sutton Road West	End	Village	Cook
Rock Ridge Road	0.5	Plum Tree Road South	End	Village	McHenry
Rolling Hills Drive	0.6	Bateman Road West	Longmeadow Drive	Village	Cook
Round Barn Road	0.2	Hawley Woods Road East	End	Village	Cook
Spring Lane	1	Spring Creek Road	End	Village	McHenry
Springwood Lane	0.2	Algonquin Road (62) North	End	Village	Cook
Steeplechase Road	1.1	Lake Cook Road North	in Cricle	Village	Lake
Surrey Court	0.1	Surrey Lane West	End	Village	McHenry
Surrey Lane East	0.1	Surrey Lane West	Wagon Wheel	Village	McHenry
Surrey Lane West	0.7	Plum Tree Road North	End	Village	McHenry
Tamarack Lane	0.2	Old Sutton Road West	End	Village	Cook
Three Lakes Road	0.2	Lake Cook Road South	End	Village	Cook
Tricia Lane	0.2	Old Sutton Road East	End	Village	Cook
Wagon Wheel Lane	0.2	Surrey Lane East	Surrey Lane West	Village	McHenry
Woodcreek Road	0.5	Dundee Road (68) South	End	Village	Cook
Braeburn Road	1.3	Spring Creek Road South	Plum Tree Road	Village	McHenry
Buckley Road	0.8	Cuba Road South	Oak Knoll Road	Village	Lake
Chapel Road	1	Haeger's Bend Road East	Church Road	Village	McHenry
Church Road	0.7	Chapel Road North	River Road	Village	McHenry
Cuba Road	0.7	Merri Oaks	Plum Tree Road	Village	Lake
Dundee Lane	1	Dundee Road (68) North	Route 59	Village	Cook
Hawley Woods Road	1.1	Otis Road South	Old Dundee Road	Village	Cook
Hawthorne Lane	0.4	Route 59 North	Otis Road	Village	Cook
Healy Road	0.8	Dundee (48) Road	Penny Road	Village	Cook
Hills & Dales Road	0.8	Brinker Road East	Otis Road	Village	Cook
Meadow Hill Road	1	Lake Cook Road North	Spring Creek Road	Village	McHenry
Merri-Oaks Road	0.7	Ridge Road East	Cuba Road	Village	Lake
Oak Knoll Road	2.4	Old Hart Road West	Ridge Road	Village	Lake
Old Hart Road	0.6	Lake Cook Road North	End	Village	Lake
Spring Creek Road	3.3	Ridge Road West	Village Limits	Village	McHenry
Haeger's Bend Road	2	Lake Cook Road North	Village Limits	Village	McHenry
Helm Road	0.8	Algonquin Road (62) West	Village Limits	Village	Cook, Kane
Plum Tree Road	1.7	C & NW Railroad West	Village Limits	Village	Lake, McHenry
Ridge Road	2	Lake Cook Road North	Plum Tree Road	Village	Lake, McHenry
River Road	0.5	Haeger's Bend Road South	Village Limits	Village	McHenry
<b>TOTAL:</b>		<b>39.0</b>			

<u>Name</u>	<u>Length</u>	<u>From</u>	<u>To</u>	<u>Jurisdiction</u>	<u>County</u>
Abbey Woods Lane	0.1	Barrington Road	End	Private	Cook
Abbey Woods Drive	0.2	Abbey Woods Lane	End	Private	Cook
Acorn Lane	0.2	Merri Oaks Road South	End	Private	Lake
Alderberry Lane	0.1	Church Road East	End	Private	McHenry
Ascot Lane	0.3	Spring Creek Road North	End	Private	McHenry
Ashbury Lane	0.5	Lake Cook Road North	in Circle	Private	McHenry
Auburn Lane	0.2	Spring Creek Road South	End	Private	McHenry
Autumn Trail	0.7	Algonquin Road (62) South	in Circle	Private	Kane
Barrington Bourne	0.5	Lake Cook Road North	in Circle	Private	McHenry
Bateman Circle	0.9	Bateman Road West	in Circle	Private	Cook
Bellwood	0.5	Lake Cook Road North	in Circle	Private	Lake
Berron Lane	0.4	Bateman Road	End	Private	Cook
Bisque Drive	0.1	Paganica Drive West	End	Private	Lake
Bow Lane	0.8	Spring Creek Road South	Meadow Hill Road	Private	McHenry
Braebum Lane	0.6	Spring Creek Road South	End	Private	McHenry
Burning Oak Trail	0.4	Braebum Road West	in Circle	Private	McHenry
Crawling Stone Road	0.3	Deepwood Road North	End	Private	Cook
Deepwood Court	0.1	Deepwood Road West	End	Private	Cook
Deepwood Road	2	Bateman Road North	Lake Cook Road	Private	Cook
Dormy Lake	0.2	Paganica Drive East	End	Private	Lake
Dunrovin Drive	0.35	Steeplechase Road North	End	Private	Lake
Eagle Pointe Drive	0.25	Bateman Road West	End	Private	Cook
East Lane	0.1	Hawley Woods Road East	End	Private	Cook
Far Hills Road	0.5	Deepwoods Road North	in Circle	Private	Cook
Fernwood Drive	0.25	Bateman Road West	End	Private	Cook
Fox Hunt Road	0.25	Meadow Hill Road East	End	Private	Lake
Goose Lake Drive	0.6	Brinker Road West	End	Private	Cook
Hart Hills Road	0.15	Oakdene Road West	End	Private	Cook
Heron Lane	0.1	Otis Road South	End	Private	Cook
Hubbell Court	0.1	Marbury Lane East	End	Private	Cook
Jacqueline Drive	0.25	Asbury Avenue South	End	Private	McHenry
Jane Lane	0.3	Plum Tree Road North	End	Private	McHenry
Jennifer Court	0.4	Old Dundee North	End	Private	Cook
Juliano Court	0.1	Thornhill Drive	End	Private	Cook
King Road	0.3	Penny Road South	End	Private	Cook
Kresmery Lane	0.15	Plum Tree Road North	End	Private	McHenry
Magnuson Court	0.15	Pondgate Drive	End	Private	Cook
Marbury Lane	0.2	Dundee Lane East	Hubbell Court	Private	Cook
Marmon Lane	0.2	Oakdene Road West	End	Private	Cook
Mid Oaks Lane	0.1	Oak Knoll Road South	End	Private	Lake
Middlebury Road	0.2	Crawling Stone Road East	End	Private	Cook
Moate Lane	0.35	Spring Creek Road North	End	Private	McHenry
Oak Lake Drive	0.15	Merri Oaks Road South	End	Private	Lake
Oak Wood Drive	0.2	New Hart Road South	End	Private	Lake
Oakdene Drive	0.2	Oakdene Road West	End	Private	Cook
Oakdene East	0.15	Oakdene Road	End	Private	Cook
Oakdene Road	0.7	Lake Cook Road North	Windrush Lane	Private	Cook
Oakdene West	0.6	Oakdene Road	End	Private	Cook
Overlook Road	0.1	Far Hills Road East	End	Private	Cook
Paganica Drive	0.35	Oak Knoll Road North	End	Private	Lake
Peraino Circle	0.9	Peraino Drive North	in Circle	Private	Lake
Peraino Drive	0.1	Ridge Road East	Peraino Circle	Private	Lake
Pheasant Drive	0.3	Ridge Road East	End	Private	Lake
Pondgate Drive	0.8	Penny Road	End	Private	Cook
Porter School Road	0.2	Buckley Road West	End	Private	Lake
Potter Lane	0.1	Dundee Road South	End	Private	Cook
Raintree Place	0.2	Church Road East	End	Private	McHenry
Regan Boulevard	0.2	Algonquin Road (62) South	End	Private	Kane
Remington Drive	0.45	Bateman Road	End	Private	Cook
Ridgecroft Lane	0.7	Meadow Hill Road East	Spring Creek Road	Private	McHenry
Roundstone Lane	0.5	Helm	End	Private	Cook
Royal Way	0.3	Algonquin Road (62) South	in Circle	Private	Kane
Rub-of-Green Lane	0.1	Bisque Drive	North & South	Private	Lake
Sandalwood Drive	0.3	Oakdene Road East	End	Private	Cook
Sara Lane	0.1	Dundee Lane East	End	Private	Cook
Saville Row	0.3	Braebum Road East	End	Private	McHenry
Sieberts Ridge Road	0.2	Cuba Road South	End	Private	Lake
Valley Drive	0.3	Otis Road North	End	Private	Cook
Wesley Court	0.1	Pondgate Drive	End	Private	Cook
West Lane	0.1	Hawley Woods Road	End	Private	Cook
Westfield Way	0.4	Remington	End	Private	Cook
Windrush Lane	0.3	Otis Road North	End	Private	Cook
Woodhaven Lane	0.5	Meadow Hill Road West	End	Private	McHenry
Woodrock Road	0.15	Far Hills Road West	End	Private	Cook, Kane
<b>TOTAL:</b>		<b>24.5</b>			

## Proposed 2015-2019 Road Program Executive Summary

### Option 1A – Maintain Current Pavement Condition (2015-2019)

Year	Preliminary Budget (2015 dollars)*	Adjusted Preliminary Budget
<b>2015</b>	\$1,064,000	\$1,064,000
	<i>Meadow Hill Road</i>	<i>(Fox Hunt to Spring Creek Road)</i>
	<i>Haegers Bend Road</i>	<i>(County Line Road to Chapel Road)</i>
	<i>Plum Tree Road</i>	<i>(Ridge Road to Village Limits)</i>
	<i>Cuba Road</i>	<i>(Buckley Road to Merri Oaks Road)</i>
	<i>Cuba Road Bridge (Local Share)</i>	
<b>2016</b>	\$1,123,000	\$1,179,000
	<i>Woodcreek Road</i>	<i>(Dundee Road to End)</i>
	<i>Rebecca Drive</i>	<i>(Old Sutton to End)</i>
	<i>Helm Road</i>	<i>(Algonquin Road to Village Limits)</i>
	<i>Healy Road</i>	<i>(Dundee Road to Penny Road)</i>
	<i>Tamarack Lane</i>	<i>(Old Sutton Road to End)</i>
	<i>Lakeview Lane</i>	<i>(Dundee Road to End)</i>
	<i>Hawthorne Lane</i>	<i>(Route 59 to Otis Road)</i>
	<i>Tricia Lane</i>	<i>(Old Sutton Road to End)</i>
	<i>VH Asphalt Parking Lots</i>	
	<i>Spring Creek Road (Local Share)</i>	<i>W. of Haegers Bend</i>
<b>2017</b>	\$1,162,000	\$1,281,000
	<i>Chapel Road</i>	<i>(Church Road to Haegers Bend)</i>
	<i>Church Road</i>	<i>(Chapel Road to Algonquin Road)</i>
	<i>Haegers Bend Road</i>	<i>(Chapel Road to Algonquin Road)</i>
	<i>River Road</i>	<i>(W. of Haegers Bend to Village Limits)</i>
	<i>River/Algonquin Road</i>	<i>(E. of Braeburn to W. of Church)</i>
<b>2018</b>	\$956,000	\$1,106,000
	<i>Hickory Lane</i>	<i>(Merri Oaks Road to End)</i>
	<i>Ridge Road</i>	<i>(County Line Road to Merri Oaks Road)</i>
	<i>Merri Oaks Road</i>	<i>(Ridge Road to Cuba Road)</i>
	<i>Old Hart Road</i>	<i>(County Line Road to End)</i>
<b>2019</b>	\$998,000	\$1,213,000
	<i>Spring Lane</i>	<i>(Spring Creek Road to End)</i>
	<i>Little Bend Road</i>	<i>(Spring Lane to End)</i>
	<i>Creekside Lane</i>	<i>(Old Sutton Road to End)</i>
	<i>Springwood Lane</i>	<i>(Algonquin Road to End)</i>
<b>Total Expenditure (2015 dollars)- \$5.3 million</b>		
<b>2015-2019 Mileage Resurfaced- 16.99 Miles (3.40 Miles/Year)</b>		
<b>Backlog Reduction- 0.99 Miles</b>		