

MEMORANDUM

To: Gregory Jackson, Village Manager
Melissa Wiak, Assistant Village Manager
Village of Long Grove

Fr: Geoffrey L. Perry, P.E., Village Engineer

Date: February 9, 2023

Re: 2023 Road Maintenance Program
Proposed Road List and Preliminary Cost Estimate
Village of Long Grove

In preparation for the Village's 2023 Road Maintenance Program, we have reviewed the Village's Pavement Condition Study (PCS) and the 5-Year Capital Improvement Plan (CIP) to prepare a preliminary Road List. We are proposing a program that includes a base bid for the resurfacing of Creekside Drive, Arrowhead Road and Tribal Court in their entirety and Long Grove Road at the intersection of IL Route 53 in the Village's 2023 Road Program. Additionally, we are proposing the reconstruction of Robert Parker Coffin Road from the Archer Parking Lot to IL Route 83.

We are also proposing reclamite (preventative maintenance) application to North Krueger Road and Stemple Parking Lot which were both paved in 2021.

Two bid alternates are also provided below, show funding be available to extend the 2023 Road Maintenance Program. The first alternate includes resurfacing Robert Parker Coffin Rd from Illinois Route 53 to Schaeffer Road and Archer Road in its entirety. The second alternate includes resurfacing Three Lakes Drive and Court in their entirety. The bid will be structured to allow the Village to accept or reject either/both alternates, which will likely be dependent on available budget and contractor bids.

The conceptual costs reported include hot-mix asphalt surface milling (4"), with placement of a new 2" asphalt binder course and 2" asphalt surface course and shoulder restoration on Creekside Drive, Arrowhead Road, and Tribal Court. The reconstruction of Robert Parker Coffin Road will be a combination of in-place reconstruction using pavement pulverization and traditional reconstruction. Pavement borings shall be obtained to confirm rehabilitation scope and estimated pricing.

In previous years, the Village has partnered with the Village of Kildeer and Ela Township for a joint road program. If the Village is desirous of partnering again this year, we will reach out on the Village's behalf to both agencies to inquire interest on the potential advantageous partnership.

The 2023 Road Program can be funded by Village capital funds or Motor-Fuel Tax ("MFT") Funds. If the Village elects to pursue MFT funding option, our office will begin coordination immediately with the Illinois DOT so this project can be bid in mid-February.

Upon your authorization, we will complete the field work and prepare the Engineer's Opinion of Probable Cost and Project Specification Book for this year's road program.

Base Bid:

2014 PCS								
PROGRAMMED								
ROADWAY	FROM	TO	PCI	YEAR	LENGTH, FT.	WIDTH, FT.	AREA, S.Y.	COST (\$32/s.y.)
Creekside Drive	Indian Creek Road	Terminus	25	22-23	3,062	25	8,506	\$272,200
Arrowhead Road	Creekside Drive	Terminus	33	22-23	762	23	1,947	\$62,300
Tribal Court	Creekside Drive	Terminus	34	22-23	650	22	1,589	\$50,800
Long Grove Road	Illinois Route 53	Brightview Landscaping	N/A	N/A	-	-	700	\$22,400
Robert Parker Coffin Road	Archer Parking Lot Entrance	Illinois Route 83	8	21-22	1,373	31	4,729	\$315,000
N Krueger Rd (Reclamite)	Illinois Route 22	Gilmer Road	N/A	N/A	5,842	22	14,280	\$17,900
Stemple Parking Lot (Reclamite)	-	-	N/A	N/A	-	-	12,053	\$15,100
Sub-Total:								\$755,700
7% Contingency:								\$52,900

Total Estimated 2023 Road Maintenance Program Construction Costs: \$808,600

Soft Costs:	
Pavement Borings:	\$3,500
Design Engineering (3.75%):	\$30,300
Construction Engineering (4.5%):	\$36,400
Total Estimated Soft Costs:	\$70,200
Total Estimated Project Costs:	\$878,800

*Costs rounded to nearest \$100

Bid Alternate 1:

2014 PCS								
PROGRAMMED								
ROADWAY	FROM	TO	PCI	YEAR	LENGTH, FT.	WIDTH, FT.	AREA, S.Y.	COST (\$32/s.y.)
Robert Parker Coffin Road	Illinois Route 53	Schaeffer Road	42	28-29	1,625	25	4,514	\$144,400
Archer Road	Old McHenry Road	Robert Parker Coffin Rd	-	-	438	35	1,703	\$54,500
Sub-Total:								\$198,900
7% Contingency:								\$13,900

Total Estimated Construction Costs: \$212,800

Soft Costs:	
Pavement Borings:	\$2,000
Design Engineering (3.75%):	\$8,000
Construction Engineering (4.5%):	\$9,600
Total Estimated Soft Costs:	\$19,600
Total Estimated Project Costs:	\$232,400

*Costs rounded to nearest \$100

Bid Alternate 2:

<u>2014 PCS</u>								
<u>PROGRAMMED</u>								
ROADWAY	FROM	TO	PCI	YEAR	LENGTH, FT.	WIDTH, FT.	AREA, S.Y.	COST (\$32/s.y.)
Three Lakes Drive	Robert Parker Coffin Rd	Terminus	17	23-24	2,302	25	6,394	\$204,600
Three Lakes Court	Three Lakes Drive	Terminus	24	23-24	818	25	2,272	\$72,700
Sub-Total:								\$277,300
7% Contingency:								\$19,400
Total Estimated Construction Costs:								\$296,700
Soft Costs:								
Pavement Borings:								\$2,000
Design Engineering (3.75%):								\$11,100
Construction Engineering (4.5%):								\$13,400
Total Estimated Soft Costs:								\$26,500
Total Estimated Project Costs:								\$323,200

*Costs rounded to nearest \$100

Project Totals: Base Bid plus Bid Alternates:

Total Estimated Construction Costs:	\$1,318,100
Total Estimated Soft Costs:	\$116,300
Total Estimated Project Costs:	\$1,434,400

70% of the Village-owned roads have been resurfaced between 2015 and 2022. The Village is eight (8) years into the 15-Year Road Program started in 2015.

With the base bid, the percentage of roads resurfaced since 2015 increases to 74%. If the bid alternate #1 is also selected, that number increases to 75%. If both bid alternates are selected, that number increases to 77%.