

Village of Long Grove

Pavement Condition Study and Proposed 2015-2029 Road Program

Prepared for:



Village of Long Grove
3110 Old McHenry Road
Long Grove, Illinois 60047
(847) 634-9440

Prepared by:



850 Forest Edge Drive
Vernon Hills, Illinois 60061
(847) 478-9700

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Table of Contents

Report	Page
– Project Background	2
– Pavement Evaluation Methodology	2
– Current Study	3
– Summary of Observations	3
– Evaluation of 2013 Long Grove Road Program	5
– Potential Cost Savings	5
– Recommendations	6
– Conclusion	9

Exhibits

- Proposed Fifteen-Year Road Maintenance Program & Map - Option 1 (2015-2029 with Opinion of Probable Cost)
- Proposed Fifteen-Year Road Maintenance Program & Map - Option 2 (2015-2029 with Opinion of Probable Cost)
- Village Map
(With PCI Rankings)
- Pavement Condition Index (PCI) Reports
(Subdivision Order, Alphabetical Order and Increasing PCI Order)
- PCI Rating System Methodology

Project Background

Gewalt Hamilton Associates, Inc. (GHA) was retained by the Village of Long Grove to perform a pavement condition evaluation and to prepare a long term road program and rehabilitation plan. The benefit of this type of study is to help the Village budget the necessary funds to preserve the existing roadway network in a logical order, thus minimizing the necessity of much more costly full depth reconstruction. The evaluation provides a quantitative assessment of the roadway condition and allows for the prioritizing of the roads most in need of rehabilitation in preparing an improvement program. In addition, GHA was asked to provide a review of the 2013 Long Grove Road Program Paving Costs as well as some potential saving options for future road programs.

Pavement Evaluation Methodology

The pavement evaluation was completed by surveying approximately 29 miles of Village maintained streets to evaluate the distress using a Pavement Condition Index (PCI) system developed by PAVER™. This pavement management software was developed by the US Army Corps of Engineers and sponsored by the Federal Highway Administration, among other agencies. PAVER™ provides pavement management capabilities designed for the following functions: (1) develop and organize the pavement inventory, (2) assess the current condition of pavements, (3) develop models to predict future conditions; (4) report on past and future pavement performance; (5) develop scenarios for Maintenance and Rehabilitation (M&R) based on budget or condition requirements; and (6) plan projects.

The PCI system utilized in this study has been adopted as a standard practice by ASTM (D-6433-10) and is increasingly the predominant methodology used in the industry. Due to its standardization and the development of a number of software tools to support the methodology, GHA utilized the PCI system for this study.



Example of a Very Poor PCI Rating

Current Study

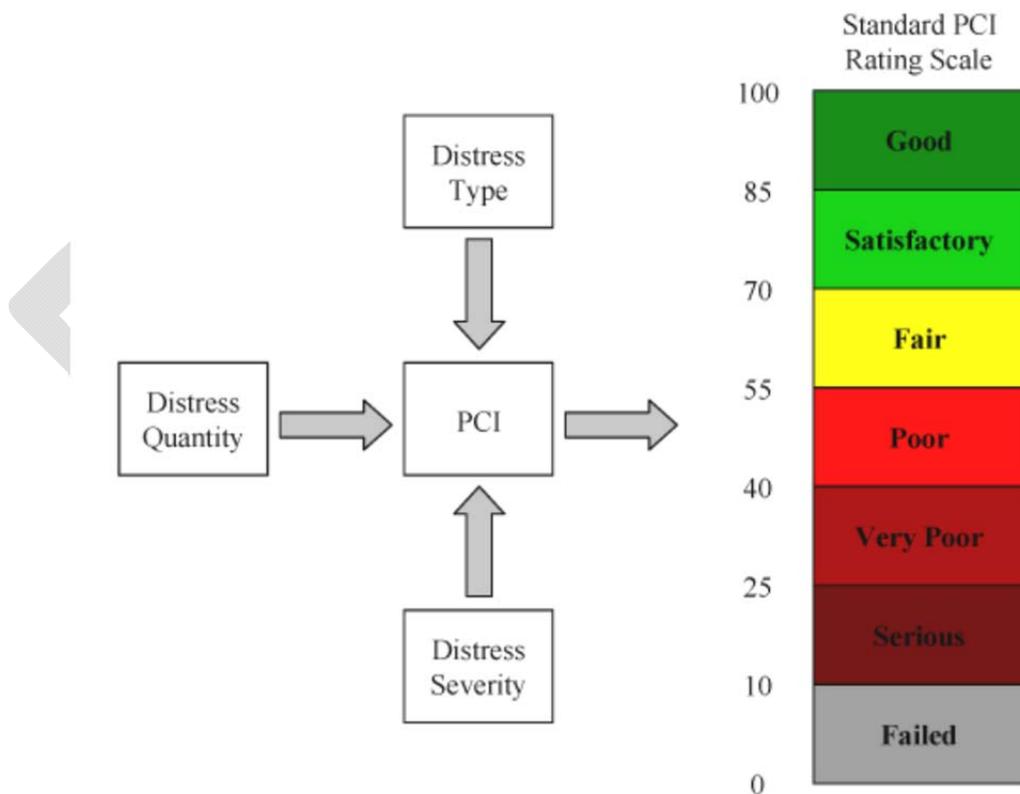
GHA conducted a field study of approximately 29 miles of Village maintained roadways in July of 2014. Each roadway section was judged on its structural condition using various distress characteristics (cracking, rutting, etc.) to identify pavement failure and thereafter applying a “severity” and “quantity” factor to each. The resulting weighted ratings, or more specifically Pavement Condition Index (PCI) numbers, were assembled and ranked in ascending order of worst to best. Segments were assigned a rehabilitation year, within a 15-year period, prioritized by variables such as severity of distress and geographic location. Finally, construction cost and inflation factors were applied to develop an annual road program budget.

The pavement condition and road program data were also integrated into a GIS application using Lake County GIS Data. The PCI reports and annual road program summaries are attached, along with maps for the 2015 through 2029 programs, and a map of the entire roadway network indicating the PCI.

This pavement study does not include a review of existing culverts and other drainage structures, review of open ditches in the Village right-of-way, or bridge inspections.

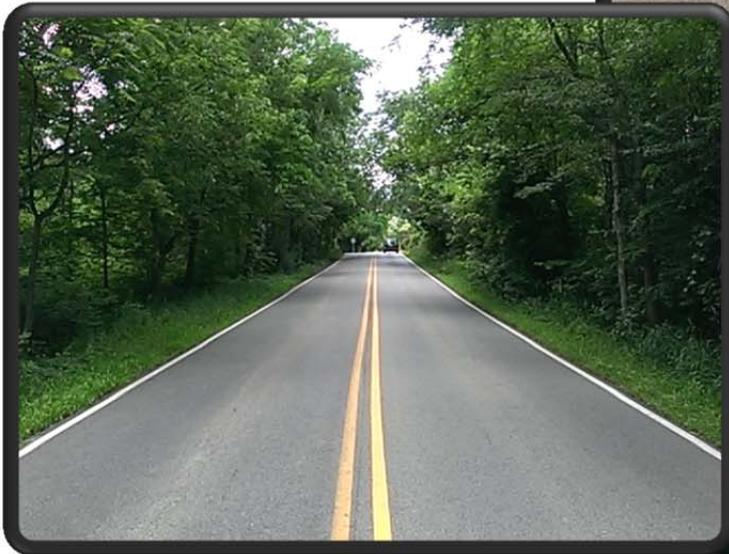
Summary of Observations

The PCI numbers presented in the attached reports can be used in conjunction with the attached bar chart to interpret the condition of the Village pavements on a subjective scale.





Example of a Serious PCI Rating



Example of a Satisfactory PCI Rating



Example of a Failed PCI Rating

Though subjective analysis may result in consideration of roadway sections characterized as “Serious” or “Very Poor” by the PAVER™ system to be in fair condition and vice versa, the PCI ratings do provide an objective measure to utilize for comparison of the pavements and prioritization of future roadway improvements. The current average PCI of Village roadways from the 2014 inspection is 19.0, with a range of 1 to 100. Longitudinal cracking, and alligator cracking were common deficiencies observed on the Village roadways.

Weather and material related distresses, such as material aging, loss of surface aggregate, oxidation of the asphalt binder, and weather related contraction and expansion with water (ice) intrusion into cracks, often manifest themselves in the form of surface cracking and shallow potholes. Intermediate repairs, such as cold patching or crack sealing, can limit the impact of such distresses and improve the overall life of the pavement. This type of repair is completed on an “as-needed” basis.

This Pavement Study noted an average PCR of 19.0, in the middle of the “Serious” range. The average PCI of 19.0 does reflect a significantly lower overall pavement condition than desired. Recently, village roadway conditions have likely been negatively affected by deferred work and several extreme winters.

Evaluation of 2013 Long Grove Road Program

The Village of Long Grove 2013 Road Program had an Engineer’s Opinion of Probable Cost (OPC) of \$523,423.55 with 3 bidders. The low bid was \$467,723.90, the second bid was \$514,900.00 and the highest bid was \$609,623.80. It appears that there was a substantial amount of surface patching work done as part of Long Grove’s 2013 Road Program. An overall cost comparison between 2013 Road Programs from other similar Villages (i.e. Kildeer, Deer Park and Lake Barrington) is difficult due to the different approaches used. Other similar Villages focused on:

- complete patching (4”-6” depths), leveling binder (1” average thickness), and a surface overlay (2” thickness) or,
- full-depth reclamation including pulverization of existing asphalt and stone, re-compaction, undercut of areas that fail a proof roll, binder (2.25”), and surface asphalt (2”).

However, the overall unit prices for surface paving and restoration from the 2013 Long Grove bids were in line with other road programs in the area from that year.

Potential Cost Savings

As discussed with the Village Board on April 22nd, 2014 there are some potential cost savings in the following areas:

- Combining your annual road program with other communities, (ie Kildeer). This would allow for a larger program and the potential for better unit prices. Estimated cost savings in the 4-7% range.
- Pursue grants and outside source funding. Improvements that address drainage and safety issues will have a better chance of receiving outside funding.

- Pavement approach as described above will provide for a longer more serviceable road life, and will reduce future maintenance costs.

Recommendations

Upon completion of the pavement inventory, all of the roadways were organized in order of ascending PCI. In grouping the roadways for the proposed Fifteen-Year Road Maintenance Program, the PCI ratings were used as the starting point to group the roads into yearly programs of roughly equal size. For Option 1, roads were shuffled slightly in order to group roads that are geographically in the same proximity, which helps to lower ultimate bid prices as well as limit the number of residents burdened by construction in any given year. In addition to this, an Option 2 was created strictly off of PCI rankings. The estimated dollar amount of each year's recommendation is shown in the attached yearly program schedule for each option, and is summarized below. The cost is shown in today's dollars as well as future cost based on a 7% inflation rate. A 7% contingency is also included to compensate for further deterioration as the roads are waiting to be rehabilitated. For additional background information, a table showing costs for each option with 5% and 10% inflation values are attached to this report.

GHA recommends a typical roadway maintenance program of patching (4"-6"), leveling binder (1" average thickness), and a surface overlay (2" thickness) for roadways. We also consider full-depth reclamation on roadways with more serious distresses. This full depth reclamation includes pulverization of existing asphalt and stone, re-compaction, undercut of areas that fail a proof roll, binder (2.25"), and surface asphalt (2"). This method requires preferably 10"-12" of existing stone and asphalt. We would propose this methodology for the majority of village streets if adequate base and stone exist. The cost structure of the 2015-2029 Road Program is based on costs of overlay and reclamation projects that GHA has managed for various Lake County municipalities and townships in the past few years, using the recommended typical roadway maintenance cross-section. These costs are estimated at \$32/square yard based on recent bid result averages. Typically existing shoulders will be maintained in kind, either with topsoil, seed, and blanket or with stone. Once a roadway is selected for improvements, specific drainage improvements will be considered.

In areas where frequent and wide transverse cracks are encountered, we recommend special treatment to prevent or at least minimize their recurrence on the new surface. This could include area reflective crack control. A crack-filling program could be conducted in areas not needing immediate resurfacing to extend the life of the existing pavement.

**Village of Long Grove – Option 1 15-Year Road Program
(Organized Geographically)**

Year	Preliminary Budget (2015 dollars)*	Adjusted Preliminary Budget (7% Inflation)
2015	\$976,000	\$976,000
2016	\$971,000	\$1,039,000
2017	\$945,000	\$1,082,000
2018	\$931,000	\$1,141,000
2019	\$913,000	\$1,197,000
2020	\$1,010,000	\$1,417,000
2021	\$848,000	\$1,272,000
2022	\$967,000	\$1,552,000
2023	\$864,000	\$1,484,000
2024	\$920,000	\$1,691,000
2025	\$885,000	\$1,740,000
2026	\$966,000	\$2,034,000
2027	\$926,000	\$2,085,000
2028	\$1,042,000	\$2,511,000
2029	\$983,000	\$2,536,000
Total Expenditures (2015 dollars)- \$14,147,000		
Total Expenditures (Adjusted) - \$23,757,000		
2015-2029 Mileage Resurfaced- 28.99 Miles		

* It should be noted that the budgetary amount shown does not describe the full budgetary need of the Roads & Bridges line item, but is rather only reflective of pavement rehabilitation costs. This number does not take into account drainage improvements, bridge maintenance, snow plowing, etc. and includes engineering at 8%. If detailed engineering plans, drainage studies or topographies are required, that percentage would increase.

**Village of Long Grove – Option 2 15-Year Road Program
(Organized by PCI)**

Year	Preliminary Budget (2015 dollars)*	Adjusted Preliminary Budget (7% Inflation)
2015	\$847,000	\$847,000
2016	\$923,000	\$988,000
2017	\$922,000	\$1,055,000
2018	\$915,000	\$1,122,000
2019	\$935,000	\$1,226,000
2020	\$1,003,000	\$1,407,000
2021	\$958,000	\$1,438,000
2022	\$888,000	\$1,426,000
2023	\$908,000	\$1,560,000
2024	\$1,405,000	\$1,921,000
2025	\$933,000	\$1,835,000
2026	\$922,000	\$1,942,000
2027	\$971,000	\$2,187,000
2028	\$952,000	\$2,294,000
2029	\$1,024,000	\$2,640,000
Total Expenditure (2015 dollars)- \$14,147,000		
Total Expenditure (Adjusted) - \$23,888,000		
2015-2029 Mileage Resurfaced- 28.99 Miles		

* It should be noted that the budgetary amount shown does not describe the full budgetary need of the Roads & Bridges line item, but is rather only reflective of pavement rehabilitation costs. This number does not take into account drainage improvements, bridge maintenance, snow plowing, etc. and includes engineering at 8%. If detailed engineering plans, drainage studies or topographies are required, that percentage would increase.

We have organized the road data and have prepared the pavement condition inventory shown in the exhibits. The following exhibits are attached to the end of this section:

- Proposed 2015-2029 Road Program & Map – Option 1
- Proposed 2015-2029 Road Program & Map – Option 2
- Village Map PCI Rankings
- PCI Summary Reports (subdivision, alphabetical, and increasing PCI order)
- PCI Rating System Methodology

Specific details of road repairs such as curb and gutter removal and replacement, pavement patching, and manhole and inlet adjustments were not noted in our inventory report. Once the specific roadway sections are selected for improvements, a more thorough review of resurfacing needs will be evaluated, which will include pavement cores to determine the condition of the pavement subgrade. A detailed opinion of probable cost will be established with each annual maintenance program, and the actual road program chosen each year will depend upon the available budget.

It should be noted that all of the estimated costs are based on inflation of anticipated 2015 construction dollars and may have to be updated each year as segments of the program are selected for improvement. The proposed Fifteen-Year Road Maintenance Program should be used as a budgetary and planning tool for the Village. We understand that roads may be moved from one year's program to another year's program based on available funding, and updated roadway conditions.

Conclusion

The attached PCI reports provide the Village with a comparative assessment of each Village-maintained roadway. The roads with low PCI's are in most need of repair and are scheduled for maintenance towards the beginning of the maintenance program. Whereas, the roads with higher PCI's are in better condition and maintenance can be deferred to the later years.

Each year's road program is summarized, with a cost in 2015 dollars and an estimated cost in the proposed year of maintenance. A map highlighting the roadway segments that are proposed in each year's maintenance program is also included for quick reference.

We believe the proposed Fifteen-Year Road Maintenance Program is a helpful tool for the Village in planning for future road maintenance and preparing budgets.

Village of Long Grove Pavement Condition Study & 2015-2019
Proposed Road Program

EXHIBITS

Village of Long Grove
Proposed Fifteen-Year Road Maintenance Program & Map
Option 1
(2015-2029 with Opinion of Probable Cost)

Village of Long Grove

Option 1 - Opinion of Probable Cost

(7% Inflation)

PROGRAMMED IMPROVEMENTS
 VILLAGE OF LONG GROVE
 2015 ROAD PROGRAM



Subdivision or Collector	Street	From	To	Length (ft)	Width (ft)	Area (sy)	PCI	2015 Rehabilitation Cost	2015 Rehabilitation Cost
CCEstates	Lincoln	Lexington Dr	Checker Rd	1954	22	4776	0	\$152,846.22	\$152,846.22
CCEstates	Shenandoah	Lincoln Ave	Checker Rd	1838	22	4493	3	\$143,772.44	\$143,772.44
CCEstates	Sheridan	Shiloh Dr	Stayton Ln	911	22	2227	3	\$71,260.44	\$71,260.44
CCEstates	Shiloh	Old Hicks Rd	IL Rt 53	2773	22	6778	3	\$216,910.22	\$216,910.22
CCEstates	Lincoln	Lexington Rd	Terminus	2346	22	5735	8	\$183,509.33	\$183,509.33
CCEstates	Union	Lincoln Ave	Terminus	472	21	1101	10	\$35,242.67	\$35,242.67
CCEstates	Cavalry	Lincoln Ave	Terminus	577	22	1410	31	\$45,134.22	\$45,134.22

7% Annual Inflation Compounded:		\$0.00
Construction Cost:	\$848,675.56	\$848,675.56
8% Engineering:	\$67,894.04	\$67,894.04
7% Contingency:	\$59,407.29	\$59,407.29
Total:	\$976,000.00	\$976,000.00

(Note: Totals Rounded to nearest \$1,000)

Total Length (FT) 10871
 Total Length (Miles) 2.06

PROGRAMMED IMPROVEMENTS
VILLAGE OF LONG GROVE
2016 ROAD PROGRAM



Subdivision or Collector	Street	From	To	Length (ft)	Width (ft)	Area (sy)	PCI	2016 Rehabilitation Cost	2015 Rehabilitation Cost
MardenEst	Monitor	Middlesax Dr	Allison Ln	535	24	1427	1	\$48,849.07	\$45,653.33
MardenWood	EMardan	cra	Monitor Ln	1834	21	4279	1	\$146,524.37	\$136,938.67
MardenWood	WMardan	Mardan Dr	Monitor Ln	1943	20	4318	2	\$147,840.71	\$138,168.89
MardenWood	Monitor Ln	Hidden Valley	Middlesax Dr	1659	19	3502	4	\$119,919.89	\$112,074.67
Skycrest	Hilltop	IL Rt 83	Terminus	2343	19	4946	4	\$169,362.45	\$158,282.67
MardenEst	Middlesax	IL Rt 53	Monitor Ln	951	22	2325	9	\$79,596.59	\$74,389.33
MardenEst	Monticello	Middlesax Dr	Terminus	583	16	1036	9	\$35,487.86	\$33,166.22
MardenWood	Mardan	IL Rt 53	E/W Mardan Dr	260	22	636	10	\$21,761.42	\$20,337.78
Skycrest	Golf	Hilltop Rd	Sunshine Ln	846	15	1410	10	\$48,278.40	\$45,120.00
MardenEst	Mayflower	Middlesax Dr	Terminus	319	16	567	11	\$19,417.88	\$18,147.56
Skycrest	Sunshine	Golf Rd	Terminus	473	15	788	11	\$26,992.53	\$25,226.67
MardenEst	Merrimac	Middlesax Dr	Terminus	580	18	1160	17	\$39,718.40	\$37,120.00

7% Annual Inflation Compounded:		\$59,123.80
Construction Cost:	\$903,749.58	\$844,625.78
8% Engineering:	\$72,299.97	\$67,570.06
7% Contingency:	\$63,262.47	\$59,123.80
Total:	\$1,039,000.00	\$971,000.00

(Note: Totals Rounded to nearest \$1,000)

Total Length (FT) 12326
Total Length (Miles) 2.33

PROGRAMMED IMPROVEMENTS
 VILLAGE OF LONG GROVE
 2017 ROAD PROGRAM



Subdivision or Collector	Street	From	To	Length (ft)	Width (ft)	Area (sy)	PCI	2017 Rehabilitation Cost	2015 Rehabilitation Cost
Collector	Cuba_3	S Krueger Rd	Lakeridge Ct	1407	22	3439	0	\$126,006.17	\$110,058.67
Collector	Cuba_1	McGinty Farm	Old McHenry Rd	7310	22	17869	4	\$654,658.91	\$571,804.44
Collector	Cuba_2	Lakeridge Ct	McGinty Farm	1785	22	4363	34	\$159,858.57	\$139,626.67

7% Annual Inflation Compounded:		\$119,033.87
Construction Cost:	\$940,523.65	\$821,489.78
8% Engineering:	\$75,241.89	\$65,719.18
7% Contingency:	\$65,836.66	\$57,504.28
Total:	\$1,082,000.00	\$945,000.00

(Note: Totals Rounded to nearest \$1,000)

Total Length (FT) 10502
 Total Length (Miles) 1.99

PROGRAMMED IMPROVEMENTS
 VILLAGE OF LONG GROVE
 2018 ROAD PROGRAM



Subdivision or Collector	Street	From	To	Length (ft)	Width (ft)	Area (sy)	PCI	2018 Rehabilitation Cost	2015 Rehabilitation Cost
CCEstates	HollyCt	Schaeffer Rd East	Terminus	648	22	1584	0	\$62,094.98	\$50,688.00
LeSavanne	BrittanyCt	Brittany Ln	Terminus	795	24	2120	2	\$83,106.92	\$67,840.00
LeSavanne	PicardyCt	Picardy Ln	Terminus	1022	24	2725	4	\$106,836.82	\$87,210.67
Bennington	Knoll Ct	Knoll Rd East	Terminus	649	19	1370	6	\$53,710.24	\$43,843.56
CCMeadows	CountryClu	Tanager Way	Checker Rd	1728	23	4416	6	\$173,113.28	\$141,312.00
LeSavanne	BrittanyLn	Arlington Heights Rd	Picardy Ct	1046	24	2789	7	\$109,345.70	\$89,258.67
LeSavanne	PicardyLn	Brittany Ct	Picardy Ct	936	25	2600	8	\$101,923.58	\$83,200.00
CCMeadows	HollyCt	Schaeffer Rd West	Tanager Way	764	23	1952	10	\$76,538.51	\$62,478.22
CCMeadows	Tanager	Holly Ct	Country Club Dr	1094	23	2796	10	\$109,598.34	\$89,464.89
Bennington	Knoll	Long Grove Rd	Knoll Ct	653	19	1379	21	\$54,041.27	\$44,113.78
Bennington	Knoll Ct	Knoll Dr West	Terminus	743	19	1569	25	\$61,489.54	\$50,193.78

7% Annual Inflation Compounded:		\$182,195.61
Construction Cost:	\$991,799.17	\$809,603.56
8% Engineering:	\$79,343.93	\$64,768.28
7% Contingency:	\$69,425.94	\$56,672.25
Total:	\$1,141,000.00	\$931,000.00

(Note: Totals Rounded to nearest \$1,000)

Total Length (FT)	10078
Total Length (Miles)	1.91

PROGRAMMED IMPROVEMENTS
 VILLAGE OF LONG GROVE
 2019 ROAD PROGRAM



Subdivision or Collector	Street	From	To	Length (ft)	Width (ft)	Area (sy)	PCI	2019 Rehabilitation Cost	2015 Rehabilitation Cost
Collector	Oakwood	IL Rt 83	Partridge Ln	4344	24	11584	2	\$485,896.35	\$370,688.00
Oak Island	RollingGle	Crestivew Dr	Terminus	816	14	1269	3	\$53,242.79	\$40,618.67
OakwoodCre	Oakwood	Oakwood Rd	Oakwood Rd	3354	22	8199	9	\$343,896.95	\$262,357.33
Oak Island	Crestview	Cuba Rd	Terminus	1609	21	3754	19	\$157,477.28	\$120,138.67

7% Annual Inflation Compounded:		\$246,710.70
Construction Cost:	\$1,040,513.37	\$793,802.67
8% Engineering:	\$83,241.07	\$63,504.21
7% Contingency:	\$72,835.94	\$55,566.19
Total:	\$1,197,000.00	\$913,000.00

(Note: Totals Rounded to nearest \$1,000)

Total Length (FT)	10123
Total Length (Miles)	1.92

PROGRAMMED IMPROVEMENTS
 VILLAGE OF LONG GROVE
 2020 ROAD PROGRAM



Subdivision or Collector	Street	From	To	Length (ft)	Width (ft)	Area (sy)	PCI	2020 Rehabilitation Cost	2015 Rehabilitation Cost
CCEstates	Federal Ct	Lexington Dr	Terminus	515	21	1202	5	\$53,932.79	\$38,453.33
CCEstates	Cumberland	Lexington Dr	Lexington Dr	2224	22	5436	6	\$243,996.63	\$173,966.22
CCEstates	Coach	Lexington Rd North	Old Hicks Rd	665	23	1699	12	\$76,273.88	\$54,382.22
CCEstates	GrantPI	Schaeffer Rd	Terminus	625	20	1389	12	\$62,335.63	\$44,444.44
CCEstates	GrantCt	Grant PI	Terminus	408	20	907	13	\$40,692.70	\$29,013.33
CCEstates	Lexington	Coach Rd	Lincoln Ave	2681	24	7149	16	\$320,873.91	\$228,778.67
CCEstates	Antietam	Schaeffer Rd	Terminus	1810	23	4626	22	\$207,602.59	\$148,017.78
CCEstates	Coach	Lexington Rd South	Old Hicks Rd	1107	23	2829	23	\$126,970.20	\$90,528.00
CCEstates	Pottawatom	Antietam Dr	Terminus	907	22	2217	40	\$99,507.62	\$70,947.56

7% Annual Inflation Compounded:		\$353,654.40
Construction Cost:	\$1,232,185.95	\$878,531.56
8% Engineering:	\$98,574.88	\$70,282.52
7% Contingency:	\$86,253.02	\$61,497.21
Total:	\$1,417,000.00	\$1,010,000.00

(Note: Totals Rounded to nearest \$1,000)

Total Length (FT) 10942
 Total Length (Miles) 2.07

PROGRAMMED IMPROVEMENTS
 VILLAGE OF LONG GROVE
 2021 ROAD PROGRAM



Subdivision or Collector	Street	From	To	Length (ft)	Width (ft)	Area (sy)	PCI	2021 Rehabilitation Cost	2015 Rehabilitation Cost
EstOakHill	OakGrove1	IL Rt 83	5367 Oak Grove Dr	3806	25	10572	10	\$507,713.75	\$338,311.11
EstOakHill	OakGroveC	Oak Grove Dr	Oak Grove Dr	2196	24	5856	26	\$281,224.86	\$187,392.00
EstOakHill	OakGrove2	5367 Oak Grove Dr	IL Rt 22	2477	24	6605	30	\$317,210.37	\$211,370.67

7% Annual Inflation Compounded:		\$369,075.21
Construction Cost:	\$1,106,148.99	\$737,073.78
8% Engineering:	\$88,491.92	\$58,965.90
7% Contingency:	\$77,430.43	\$51,595.16
Total:	\$1,272,000.00	\$848,000.00

(Note: Totals Rounded to nearest \$1,000)

Total Length (FT) 8479
 Total Length (Miles) 1.61

PROGRAMMED IMPROVEMENTS
VILLAGE OF LONG GROVE
2022 ROAD PROGRAM



Subdivision or Collector	Street	From	To	Length (ft)	Width (ft)	Area (sy)	PCI	2022 Rehabilitation Cost	2015 Rehabilitation Cost
Creekside	Private	Creekside Rd	Terminus	643	15	1072	0	\$55,067.60	\$34,293.33
Towers	Meadow	IL Rt 83	Osage Ln	408	27	1224	7	\$62,895.25	\$39,168.00
Towers	Willow Spr	Osage Ln	Terminus	1340	21	3127	8	\$160,663.79	\$100,053.33
Towers	Meadow	Willow Spring Rd	Osage Ln	1449	21	3381	10	\$173,732.71	\$108,192.00
Towers	Willow Spr	Village Limits at IL Rt 83	Osage Ln	480	22	1173	16	\$60,291.74	\$37,546.67
Creekside	Creekside	Indian Creek Rd	Terminus	3062	25	8506	25	\$437,058.03	\$272,177.78
Creekside	Arrowhead	Creekside Dr	Terminus	762	23	1947	33	\$100,063.74	\$62,314.67
Creekside	Tribal	Creekside Dr	Terminus	650	22	1589	34	\$81,645.07	\$50,844.44
Towers	Osage	Willow Spring Rd	Meadow Ln	1823	21	4254	40	\$218,574.69	\$136,117.33

7% Annual Inflation Compounded:		\$509,285.06
Construction Cost:	\$1,349,992.62	\$840,707.56
8% Engineering:	\$107,999.41	\$67,256.60
7% Contingency:	\$94,499.48	\$58,849.53
Total:	\$1,552,000.00	\$967,000.00

(Note: Totals Rounded to nearest \$1,000)

Total Length (FT) 10617
Total Length (Miles) 2.01

PROGRAMMED IMPROVEMENTS
 VILLAGE OF LONG GROVE
 2023 ROAD PROGRAM



Subdivision or Collector	Street	From	To	Length (ft)	Width (ft)	Area (sy)	PCI	2023 Rehabilitation Cost	2015 Rehabilitation Cost
Collector	Schaeffe_2	Checker Rd	Richmond Ln	1303	22	3185	3	\$175,123.64	\$101,923.56
Collector	RPCoffin_1	Old McHenry Rd	IL Rt 83	2264	31	7798	8	\$428,761.52	\$249,543.11
LakesLG	3LakesDr	RPC	Terminus	2302	25	6394	17	\$351,579.07	\$204,622.22
Collector	SKrueger	Cuba Rd	Village Limits	1638	21	3822	24	\$210,141.04	\$122,304.00
LakesLG	3LakesCt	Three Lakes Dr	Terminus	818	25	2272	24	\$124,931.23	\$72,711.11

7% Annual Inflation Compounded:		\$539,432.51
Construction Cost:	\$1,290,536.51	\$751,104.00
8% Engineering:	\$103,242.92	\$60,088.32
7% Contingency:	\$90,337.56	\$52,577.28
Total:	\$1,484,000.00	\$864,000.00

(Note: Totals Rounded to nearest \$1,000)

Total Length (FT) 8325
 Total Length (Miles) 1.58

PROGRAMMED IMPROVEMENTS
VILLAGE OF LONG GROVE
2024 ROAD PROGRAM



Subdivision or Collector	Street	From	To	Length (ft)	Width (ft)	Area (sy)	PCI	2024 Rehabilitation Cost	2015 Rehabilitation Cost
CCEstates	Chickamaug	Sumter Dr	Terminus	3396	24	9056	12	\$532,770.77	\$289,792.00
BridgeWate	ManassasL	Schaeffer Rd East	Terminus	1475	21	3442	18	\$202,475.64	\$110,133.33
CCEstates	SumterDr	Schaeffer Rd	Terminus	3010	23	7692	19	\$452,538.78	\$246,151.11
BridgeWate	ManassasLn	Schaeffer Rd West	Terminus	1362	22	3329	24	\$195,866.99	\$106,538.67
CCEstates	SumterCt	Sumter Dr	Terminus	580	23	1482	50	\$87,200.16	\$47,431.11

7% Annual Inflation Compounded:		\$670,806.13
Construction Cost:	\$1,470,852.35	\$800,046.22
8% Engineering:	\$117,668.19	\$64,003.70
7% Contingency:	\$102,959.66	\$56,003.24
Total:	\$1,691,000.00	\$920,000.00
<i>(Note: Totals Rounded to nearest \$1,000)</i>		

Total Length (FT) 9823
Total Length (Miles) 1.86

PROGRAMMED IMPROVEMENTS
 VILLAGE OF LONG GROVE
 2025 ROAD PROGRAM



Subdivision or Collector	Street	From	To	Length (ft)	Width (ft)	Area (sy)	PCI	2025 Rehabilitation Cost	2015 Rehabilitation Cost
Collector	Schaeffe_1	Holly Ct	IL Rt 53	3659	24	9757	15	\$614,212.85	\$312,234.67
Collector	NKrueger	IL Rt 22	Gilmer Rd	5842	22	14280	23	\$898,937.46	\$456,974.22

7% Annual Inflation Compounded:		\$743,941.42
Construction Cost:	\$1,513,150.31	\$769,208.89
8% Engineering:	\$121,052.02	\$61,536.71
7% Contingency:	\$105,920.52	\$53,844.62
Total:	\$1,740,000.00	\$885,000.00

(Note: Totals Rounded to nearest \$1,000)

Total Length (FT) 9501
 Total Length (Miles) 1.80

PROGRAMMED IMPROVEMENTS
 VILLAGE OF LONG GROVE
 2026 ROAD PROGRAM



Subdivision or Collector	Street	From	To	Length (ft)	Width (ft)	Area (sy)	PCI	2026 Rehabilitation Cost	2015 Rehabilitation Cost
Promontory	Port Clint	Tall Oaks Dr	Terminus	2700	23	6900	12	\$464,751.31	\$220,800.00
Promontory	PortClinto	IL Rt 83	Tall Oaks Dr	550	25	1528	22	\$102,903.87	\$48,888.89
PromoRidge	Hampton	IL Rt 22	Port Clinton Rd	2538	23	6486	26	\$436,866.23	\$207,552.00
Promontory	Tall Oaks	IL Rt 22	Port Clinton Rd	4441	23	11349	28	\$764,429.84	\$363,175.11

7% Annual Inflation Compounded:		\$928,535.26
Construction Cost:	\$1,768,951.26	\$840,416.00
8% Engineering:	\$141,516.10	\$67,233.28
7% Contingency:	\$123,826.59	\$58,829.12
Total:	\$2,034,000.00	\$966,000.00

(Note: Totals Rounded to nearest \$1,000)

Total Length (FT)	10229
Total Length (Miles)	1.94

PROGRAMMED IMPROVEMENTS
 VILLAGE OF LONG GROVE
 2027 ROAD PROGRAM



Subdivision or Collector	Street	From	To	Length (ft)	Width (ft)	Area (sy)	PCI	2027 Rehabilitation Cost	2015 Rehabilitation Cost
Collector	ArlingtonH	Thompson Blvd	Terminus	1882	23	4810	11	\$346,625.30	\$153,905.78
Collector	Indian Cre	Diamond Lake Rd	Village Limits	3943	23	10077	11	\$726,218.68	\$322,449.78
Indian Cre	Estate Ln	Indian Creek Rd	Terminus	1588	23	4058	30	\$292,476.61	\$129,863.11
Indian Cre	LakeridgeC	Lakeridge Dr	Terminus	583	22	1425	35	\$102,707.94	\$45,603.56
Indian Cre	LakeridgeD	Indian Creek Rd	Terminus	1960	22	4791	41	\$345,296.00	\$153,315.56

7% Annual Inflation Compounded:		\$1,008,186.75
Construction Cost:	\$1,813,324.53	\$805,137.78
8% Engineering:	\$145,065.96	\$64,411.02
7% Contingency:	\$126,932.72	\$56,359.64
Total:	\$2,085,000.00	\$926,000.00

(Note: Totals Rounded to nearest \$1,000)

Total Length (FT) 9956
 Total Length (Miles) 1.89

PROGRAMMED IMPROVEMENTS
 VILLAGE OF LONG GROVE
 2028 ROAD PROGRAM



Subdivision or Collector	Street	From	To	Length (ft)	Width (ft)	Area (sy)	PCI	2028 Rehabilitation Cost	2015 Rehabilitation Cost
Edgebrook	Roanake	Schaeffer Rd	Terminus	357	21	833	12	\$64,236.83	\$26,656.00
Edgebrook	Dawn	Schaeffer Rd	Terminus	430	22	1051	13	\$81,056.48	\$33,635.56
Edgebrook	Schaeffer	Checker Rd North	Terminus	1242	23	3174	29	\$244,763.14	\$101,568.00
Collector	Checker_1	Old Hicks Rd	Schaeffer Rd	6369	23	16276	36	\$1,255,150.10	\$520,842.67
Collector	RPCoffin_2	IL Rt 53	Old McHenry Rd	2120	25	5889	42	\$454,121.90	\$188,444.44
Residentia	Schaeffer	IL Rt 53	RPC	704	14	1095	100	\$84,449.54	\$35,043.56

7% Annual Inflation Compounded:		\$1,277,587.75
Construction Cost:	\$2,183,777.98	\$906,190.22
8% Engineering:	\$174,702.24	\$72,495.22
7% Contingency:	\$152,864.46	\$63,433.32
Total:	\$2,511,000.00	\$1,042,000.00

(Note: Totals Rounded to nearest \$1,000)

Total Length (FT) 11222
 Total Length (Miles) 2.13

PROGRAMMED IMPROVEMENTS
 VILLAGE OF LONG GROVE
 2029 ROAD PROGRAM



Subdivision or Collector	Street	From	To	Length (ft)	Width (ft)	Area (sy)	PCI	2029 Rehabilitation Cost	2015 Rehabilitation Cost
Collector	Long Grove	Village Limits	IL Rt 53	3468	26	10019	85	\$826,671.17	\$320,597.33
Collector	Checker_2	Schaeffer Rd	18376 Checker Rd	2010	22	4913	94	\$405,414.33	\$157,226.67
Collector	OldHicks	IL Rt 53	Checker Rd	4614	23	11791	100	\$972,939.38	\$377,322.67

7% Annual Inflation Compounded:		\$1,349,878.22
Construction Cost:	\$2,205,024.88	\$855,146.67
8% Engineering:	\$176,401.99	\$68,411.73
7% Contingency:	\$154,351.74	\$59,860.27
Total:	\$2,536,000.00	\$983,000.00

(Note: Totals Rounded to nearest \$1,000)

Total Length (FT) 10092
 Total Length (Miles) 1.91

Village of Long Grove

Option 1 - Opinion of Probable Cost

(5% & 10% Inflation Summaries)

Option 1 - Additional Inflation Rates

Option 1 - Preliminary 15-Year Road Program Summary (With 5% Inflation)

Year	Preliminary Budget (2015 Dollars)	Adjusted Preliminary Budget (5% Inflation)
2015	\$976,000	\$976,000
2016	\$971,000	\$1,020,000
2017	\$945,000	\$1,042,000
2018	\$931,000	\$1,078,000
2019	\$913,000	\$1,110,000
2020	\$1,010,000	\$1,289,000
2021	\$848,000	\$1,136,000
2022	\$967,000	\$1,360,000
2023	\$864,000	\$1,276,000
2024	\$920,000	\$1,427,000
2025	\$885,000	\$1,441,000
2026	\$966,000	\$1,653,000
2027	\$926,000	\$1,663,000
2028	\$1,042,000	\$1,965,000
2029	\$983,000	\$1,947,000
TOTAL*	\$14,147,000	\$20,383,000

Option 1 - Preliminary 15-Year Road Program Summary (With 10% Inflation)

Year	Preliminary Budget (2015 Dollars)	Adjusted Preliminary Budget (10% Inflation)
2015	\$976,000	\$976,000
2016	\$971,000	\$1,068,000
2017	\$945,000	\$1,143,000
2018	\$931,000	\$1,239,000
2019	\$913,000	\$1,337,000
2020	\$1,010,000	\$1,627,000
2021	\$848,000	\$1,502,000
2022	\$967,000	\$1,884,000
2023	\$864,000	\$1,852,000
2024	\$920,000	\$2,169,000
2025	\$885,000	\$2,294,000
2026	\$966,000	\$2,757,000
2027	\$926,000	\$2,906,000
2028	\$1,042,000	\$3,598,000
2029	\$983,000	\$3,735,000
TOTAL*	\$14,147,000	\$30,087,000

*Totals inclusive of 8% Engineering and 7% Contingency.

Village of Long Grove
Proposed Fifteen-Year Road Maintenance Program & Map
Option 2
(2015-2029 with Opinion of Probable Cost)

Village of Long Grove

Option 2 - Opinion of Probable Cost

(7% Inflation)

PROGRAMMED IMPROVEMENTS
 VILLAGE OF LONG GROVE
 2015 ROAD PROGRAM



Subdivision or Collector	Street	From	To	Length (ft)	Width (ft)	Area (sy)	PCI	2015 Rehabilitation Cost	2015 Rehabilitation Cost
CCEstates	Lincoln	Lexington Dr	Checker Rd	1954	22	4776	0	\$152,846.22	\$152,846.22
Collector	Cuba_3	S Krueger Rd	Lakeridge Ct	1407	22	3439	0	\$110,058.67	\$110,058.67
CCEstates	HollyCt	Schaeffer Rd East	Terminus	648	22	1584	0	\$50,688.00	\$50,688.00
Creekside	Private	Creekside Rd	Terminus	643	15	1072	0	\$34,293.33	\$34,293.33
MardenEst	Monitor	Middlesax Dr	Allison Ln	535	24	1427	1	\$45,653.33	\$45,653.33
MardenWood	EMardan	cra	Monitor Ln	1834	21	4279	1	\$136,938.67	\$136,938.67
LeSavanne	BrittanyCt	Brittany Ln	Terminus	795	24	2120	2	\$67,840.00	\$67,840.00
MardenWood	WMardan	Mardan Dr	Monitor Ln	1943	20	4318	2	\$138,168.89	\$138,168.89

7% Annual Inflation Compounded:		\$0.00
Construction Cost:	\$736,487.11	\$736,487.11
8% Engineering:	\$58,918.97	\$58,918.97
7% Contingency:	\$51,554.10	\$51,554.10
Total:	\$847,000.00	\$847,000.00
<i>(Note: Totals Rounded to nearest \$1,000)</i>		

Total Length (FT) 9759
 Total Length (Miles) 1.85

PROGRAMMED IMPROVEMENTS
 VILLAGE OF LONG GROVE
 2016 ROAD PROGRAM



Subdivision or Collector	Street	From	To	Length (ft)	Width (ft)	Area (sy)	PCI	2016 Rehabilitation Cost	2015 Rehabilitation Cost
Collector	Oakwood	IL Rt 83	Partridge Ln	4344	24	11584	2	\$396,636.16	\$370,688.00
CCEstates	Shenandoah	Lincoln Ave	Checker Rd	1838	22	4493	3	\$153,836.52	\$143,772.44
CCEstates	Sheridan	Shiloh Dr	Stayton Ln	911	22	2227	3	\$76,248.68	\$71,260.44
CCEstates	Shiloh	Old Hicks Rd	IL Rt 53	2773	22	6778	3	\$232,093.94	\$216,910.22

7% Annual Inflation Compounded:		\$56,184.18
Construction Cost:	\$858,815.29	\$802,631.11
8% Engineering:	\$68,705.22	\$64,210.49
7% Contingency:	\$60,117.07	\$56,184.18
Total:	\$988,000.00	\$923,000.00

(Note: Totals Rounded to nearest \$1,000)

Total Length (FT)	9866
Total Length (Miles)	1.87

PROGRAMMED IMPROVEMENTS
 VILLAGE OF LONG GROVE
 2017 ROAD PROGRAM



Subdivision or Collector	Street	From	To	Length (ft)	Width (ft)	Area (sy)	PCI	2017 Rehabilitation Cost	2015 Rehabilitation Cost
Oak Island	RollingGle	Crestivew Dr	Terminus	816	14	1269	3	\$46,504.31	\$40,618.67
Collector	Schaeffe_2	Checker Rd	Richmond Ln	1303	22	3185	3	\$116,692.28	\$101,923.56
Collector	Cuba_1	McGinty Farm	Old McHenry Rd	7310	22	17869	4	\$654,658.91	\$571,804.44
LeSavanne	PicardyCt	Picardy Ln	Terminus	1022	24	2725	4	\$99,847.49	\$87,210.67

7% Annual Inflation Compounded:		\$116,145.66
Construction Cost:	\$917,702.99	\$801,557.33
8% Engineering:	\$73,416.24	\$64,124.59
7% Contingency:	\$64,239.21	\$56,109.01
Total:	\$1,055,000.00	\$922,000.00

(Note: Totals Rounded to nearest \$1,000)

Total Length (FT)	10451
Total Length (Miles)	1.98

PROGRAMMED IMPROVEMENTS
VILLAGE OF LONG GROVE
2018 ROAD PROGRAM



Subdivision or Collector	Street	From	To	Length (ft)	Width (ft)	Area (sy)	PCI	2018 Rehabilitation Cost	2015 Rehabilitation Cost
MardenWood	Monitor Ln	Hidden Valley	Middlesax Dr	1659	19	3502	4	\$137,296.29	\$112,074.67
Skycrest	Hilltop	IL Rt 83	Terminus	2343	19	4946	4	\$193,903.07	\$158,282.67
CCEstates	Federal Ct	Lexington Dr	Terminus	515	21	1202	5	\$47,106.99	\$38,453.33
Bennington	Knoll Ct	Knoll Rd East	Terminus	649	19	1370	6	\$53,710.24	\$43,843.56
CCMeadows	CountryClu	Tanager Way	Checker Rd	1728	23	4416	6	\$173,113.28	\$141,312.00
CCEstates	Cumberland	Lexington Dr	Lexington Dr	2224	22	5436	6	\$213,116.10	\$173,966.22
LeSavanne	BrittanyLn	Arlington Heights Rd	Picardy Ct	1046	24	2789	7	\$109,345.70	\$89,258.67
Towers	Meadow	IL Rt 83	Osage Ln	408	27	1224	7	\$47,982.48	\$39,168.00

7% Annual Inflation Compounded:		\$179,215.04
Construction Cost:	\$975,574.15	\$796,359.11
8% Engineering:	\$78,045.93	\$63,708.73
7% Contingency:	\$68,290.19	\$55,745.14
Total:	\$1,122,000.00	\$916,000.00

(Note: Totals Rounded to nearest \$1,000)

Total Length (FT) 10572
Total Length (Miles) 2.00

PROGRAMMED IMPROVEMENTS
VILLAGE OF LONG GROVE
2019 ROAD PROGRAM



Subdivision or Collector	Street	From	To	Length (ft)	Width (ft)	Area (sy)	PCI	2019 Rehabilitation Cost	2015 Rehabilitation Cost
CCEstates	Lincoln	Lexington Rd	Terminus	2346	22	5735	8	\$240,543.30	\$183,509.33
LeSavanne	PicardyLn	Brittany Ct	Picardy Ct	936	25	2600	8	\$109,058.23	\$83,200.00
Towers	Willow Spr	Osage Ln	Terminus	1340	21	3127	8	\$131,149.51	\$100,053.33
Collector	RPCoffin_1	Old McHenry Rd	IL Rt 83	2264	31	7798	8	\$327,100.11	\$249,543.11
MardenEst	Middlesax	IL Rt 53	Monitor Ln	951	22	2325	9	\$97,509.24	\$74,389.33
MardenEst	Monticello	Middlesax Dr	Terminus	583	16	1036	9	\$43,474.15	\$33,166.22
CCMeadows	Tanager	Holly Ct	Country Club Dr	1094	23	2796	10	\$117,270.22	\$89,464.89

7% Annual Inflation Compounded:		\$252,778.54
Construction Cost:	\$1,066,104.77	\$813,326.22
8% Engineering:	\$85,288.38	\$65,066.10
7% Contingency:	\$74,627.33	\$56,932.84
Total:	\$1,226,000.00	\$935,000.00

(Note: Totals Rounded to nearest \$1,000)

Total Length (FT) 9514
Total Length (Miles) 1.80

PROGRAMMED IMPROVEMENTS
 VILLAGE OF LONG GROVE
 2020 ROAD PROGRAM



Subdivision or Collector	Street	From	To	Length (ft)	Width (ft)	Area (sy)	PCI	2020 Rehabilitation Cost	2015 Rehabilitation Cost
OakwoodCre	Oakwood	Oakwood Rd	Oakwood Rd	3354	22	8199	9	\$367,969.73	\$262,357.33
CCEstates	Union	Lincoln Ave	Terminus	472	21	1101	10	\$49,429.66	\$35,242.67
CCMeadows	HollyCt	Schaeffer Rd West	Tanager Way	764	23	1952	10	\$87,628.94	\$62,478.22
MardenWood	Mardan	IL Rt 53	E/W Mardan Dr	260	22	636	10	\$28,524.79	\$20,337.78
Skycrest	Golf	Hilltop Rd	Sunshine Ln	846	15	1410	10	\$63,283.13	\$45,120.00
Towers	Meadow	Willow Spring Rd	Osage Ln	1449	21	3381	10	\$151,744.88	\$108,192.00
EstOakHill	OakGrove1	IL Rt 83	5367 Oak Grove Dr	3806	25	10572	10	\$474,498.83	\$338,311.11

7% Annual Inflation Compounded:		\$351,040.85
Construction Cost:	\$1,223,079.96	\$872,039.11
8% Engineering:	\$97,846.40	\$69,763.13
7% Contingency:	\$85,615.60	\$61,042.74
Total:	\$1,407,000.00	\$1,003,000.00

(Note: Totals Rounded to nearest \$1,000)

Total Length (FT) 10951
 Total Length (Miles) 2.07

PROGRAMMED IMPROVEMENTS
 VILLAGE OF LONG GROVE
 2021 ROAD PROGRAM



Subdivision or Collector	Street	From	To	Length (ft)	Width (ft)	Area (sy)	PCI	2021 Rehabilitation Cost	2015 Rehabilitation Cost
MardenEst	Mayflower	Middlesax Dr	Terminus	319	16	567	11	\$27,234.59	\$18,147.56
Skycrest	Sunshine	Golf Rd	Terminus	473	15	788	11	\$37,858.42	\$25,226.67
Collector	ArlingtonH	Thompson Blvd	Terminus	1882	23	4810	11	\$230,971.07	\$153,905.78
CCEstates	Coach	Lexington Rd North	Old Hicks Rd	665	23	1699	12	\$81,613.05	\$54,382.22
CCEstates	GrantPI	Schaeffer Rd	Terminus	625	20	1389	12	\$66,699.13	\$44,444.44
Edgebrook	Roanake	Schaeffer Rd	Terminus	357	21	833	12	\$40,003.47	\$26,656.00
CCEstates	Chickamaug	Sumter Dr	Terminus	3396	24	9056	12	\$434,899.65	\$289,792.00
Promontory	Port Clint	Tall Oaks Dr	Terminus	2700	23	6900	12	\$331,361.26	\$220,800.00

7% Annual Inflation Compounded:		\$417,285.98
Construction Cost:	\$1,250,640.64	\$833,354.67
8% Engineering:	\$100,051.25	\$66,668.37
7% Contingency:	\$87,544.84	\$58,334.83
Total:	\$1,438,000.00	\$958,000.00

(Note: Totals Rounded to nearest \$1,000)

Total Length (FT) 10417
 Total Length (Miles) 1.97

PROGRAMMED IMPROVEMENTS
 VILLAGE OF LONG GROVE
 2022 ROAD PROGRAM



Subdivision or Collector	Street	From	To	Length (ft)	Width (ft)	Area (sy)	PCI	2022 Rehabilitation Cost	2015 Rehabilitation Cost
Collector	Indian Cre	Diamond Lake Rd	Village Limits	3943	23	10077	11	\$517,783.88	\$322,449.78
CCEstates	GrantCt	Grant Pl	Terminus	408	20	907	13	\$46,589.07	\$29,013.33
Edgebrook	Dawn	Schaeffer Rd	Terminus	430	22	1051	13	\$54,011.35	\$33,635.56
Collector	Schaeffe_1	Holly Ct	IL Rt 53	3659	24	9757	15	\$501,380.64	\$312,234.67
Towers	Willow Spr	Village Limits at IL Rt 83	Osage Ln	480	22	1173	16	\$60,291.74	\$37,546.67
MardenEst	Merrimac	Middlesax Dr	Terminus	580	18	1160	17	\$59,606.61	\$37,120.00

7% Annual Inflation Compounded:		\$467,663.30
Construction Cost:	\$1,239,663.30	\$772,000.00
8% Engineering:	\$99,173.06	\$61,760.00
7% Contingency:	\$86,776.43	\$54,040.00
Total:	\$1,426,000.00	\$888,000.00

(Note: Totals Rounded to nearest \$1,000)

Total Length (FT) 9500
 Total Length (Miles) 1.80

PROGRAMMED IMPROVEMENTS
 VILLAGE OF LONG GROVE
 2023 ROAD PROGRAM



Subdivision or Collector	Street	From	To	Length (ft)	Width (ft)	Area (sy)	PCI	2023 Rehabilitation Cost	2015 Rehabilitation Cost
CCEstates	Lexington	Coach Rd	Lincoln Ave	2681	24	7149	16	\$393,084.34	\$228,778.67
LakesLG	3LakesDr	RPC	Terminus	2302	25	6394	17	\$351,579.07	\$204,622.22
BridgeWate	ManassasL	Schaeffer Rd East	Terminus	1475	21	3442	18	\$189,229.57	\$110,133.33
CCEstates	SumterDr	Schaeffer Rd	Terminus	3010	23	7692	19	\$422,933.44	\$246,151.11

7% Annual Inflation Compounded:		\$567,141.09
Construction Cost:	\$1,356,826.43	\$789,685.33
8% Engineering:	\$108,546.11	\$63,174.83
7% Contingency:	\$94,977.85	\$55,277.97
Total:	\$1,560,000.00	\$908,000.00

(Note: Totals Rounded to nearest \$1,000)

Total Length (FT)	9468
Total Length (Miles)	1.79

PROGRAMMED IMPROVEMENTS
VILLAGE OF LONG GROVE
2024 ROAD PROGRAM



Subdivision or Collector	Street	From	To	Length (ft)	Width (ft)	Area (sy)	PCI	2024 Rehabilitation Cost	2015 Rehabilitation Cost
Oak Island	Crestview	Cuba Rd	Terminus	1609	21	3754	19	\$220,870.04	\$120,138.67
Bennington	Knoll	Long Grove Rd	Knoll Ct	653	19	1379	21	\$81,101.38	\$44,113.78
CCEstates	Antietam	Schaeffer Rd	Terminus	1810	23	4626	22	\$272,124.65	\$148,017.78
Promontory	PortClinto	IL Rt 83	Tall Oaks Dr	550	25	1528	22	\$89,880.23	\$48,888.89
CCEstates	Coach	Lexington Rd South	Old Hicks Rd	1107	23	2829	23	\$166,432.04	\$90,528.00
Collector	NKrueger	IL Rt 22	Gilmer Rd	5842	22	14280	23	\$840,128.47	\$456,974.22

7% Annual Inflation Compounded:		\$761,875.47
Construction Cost:	\$1,670,536.80	\$908,661.33
8% Engineering:	\$133,642.94	\$72,692.91
7% Contingency:	\$116,937.58	\$63,606.29
Total:	\$1,921,000.00	\$1,045,000.00

(Note: Totals Rounded to nearest \$1,000)

Total Length (FT) 11571
Total Length (Miles) 2.19

PROGRAMMED IMPROVEMENTS
 VILLAGE OF LONG GROVE
 2025 ROAD PROGRAM



Subdivision or Collector	Street	From	To	Length (ft)	Width (ft)	Area (sy)	PCI	2025 Rehabilitation Cost	2015 Rehabilitation Cost
Collector	SKrueger	Cuba Rd	Village Limits	1638	21	3822	24	\$240,590.48	\$122,304.00
LakesLG	3LakesCt	Three Lakes Dr	Terminus	818	25	2272	24	\$143,033.76	\$72,711.11
BridgeWate	ManassasLn	Schaeffer Rd West	Terminus	1362	22	3329	24	\$209,577.68	\$106,538.67
Bennington	Knoll Ct	Knoll Dr West	Terminus	743	19	1569	25	\$98,738.76	\$50,193.78
Creekside	Creekside	Indian Creek Rd	Terminus	3062	25	8506	25	\$535,414.88	\$272,177.78
EstOakHill	OakGroveC	Oak Grove Dr	Oak Grove Dr	2196	24	5856	26	\$368,628.43	\$187,392.00

7% Annual Inflation Compounded:		\$784,666.66
Construction Cost:	\$1,595,983.99	\$811,317.33
8% Engineering:	\$127,678.72	\$64,905.39
7% Contingency:	\$111,718.88	\$56,792.21
Total:	\$1,835,000.00	\$933,000.00

(Note: Totals Rounded to nearest \$1,000)

Total Length (FT) 9819
 Total Length (Miles) 1.86

PROGRAMMED IMPROVEMENTS
 VILLAGE OF LONG GROVE
 2026 ROAD PROGRAM



Subdivision or Collector	Street	From	To	Length (ft)	Width (ft)	Area (sy)	PCI	2026 Rehabilitation Cost	2015 Rehabilitation Cost
PromoRidge	Hampton	IL Rt 22	Port Clinton Rd	2538	23	6486	26	\$436,866.23	\$207,552.00
Promontory	Tall Oaks	IL Rt 22	Port Clinton Rd	4441	23	11349	28	\$764,429.84	\$363,175.11
Edgebrook	Schaeffer	Checker Rd North	Terminus	1242	23	3174	29	\$213,785.60	\$101,568.00
Indian Cre	Estate Ln	Indian Creek Rd	Terminus	1588	23	4058	30	\$273,342.62	\$129,863.11

7% Annual Inflation Compounded:		\$886,266.08
Construction Cost:	\$1,688,424.30	\$802,158.22
8% Engineering:	\$135,073.94	\$64,172.66
7% Contingency:	\$118,189.70	\$56,151.08
Total:	\$1,942,000.00	\$922,000.00

(Note: Totals Rounded to nearest \$1,000)

Total Length (FT)	9809
Total Length (Miles)	1.86

PROGRAMMED IMPROVEMENTS
VILLAGE OF LONG GROVE
2027 ROAD PROGRAM



Subdivision or Collector	Street	From	To	Length (ft)	Width (ft)	Area (sy)	PCI	2027 Rehabilitation Cost	2015 Rehabilitation Cost
EstOakHill	OakGrove2	5367 Oak Grove Dr	IL Rt 22	2477	24	6605	30	\$476,047.24	\$211,370.67
CCEstates	Cavalry	Lincoln Ave	Terminus	577	22	1410	31	\$101,650.92	\$45,134.22
Creekside	Arrowhead	Creekside Dr	Terminus	762	23	1947	33	\$140,344.57	\$62,314.67
Collector	Cuba_2	Lakeridge Ct	McGinty Farm	1785	22	4363	34	\$314,466.00	\$139,626.67
Creekside	Tribal	Creekside Dr	Terminus	650	22	1589	34	\$114,511.43	\$50,844.44
Indian Cre	LakeridgeC	Lakeridge Dr	Terminus	583	22	1425	35	\$102,707.94	\$45,603.56
Towers	Osage	Willow Spring Rd	Meadow Ln	1823	21	4254	40	\$306,562.31	\$136,117.33
Indian Cre	LakeridgeD	Indian Creek Rd	Terminus	1960	22	4791	41	\$345,296.00	\$153,315.56

7% Annual Inflation Compounded:		\$1,057,259.31
Construction Cost:	\$1,901,586.42	\$844,327.11
8% Engineering:	\$152,126.91	\$67,546.17
7% Contingency:	\$133,111.05	\$59,102.90
Total:	\$2,187,000.00	\$971,000.00

(Note: Totals Rounded to nearest \$1,000)

Total Length (FT) 10617
Total Length (Miles) 2.01

PROGRAMMED IMPROVEMENTS
 VILLAGE OF LONG GROVE
 2028 ROAD PROGRAM



Subdivision or Collector	Street	From	To	Length (ft)	Width (ft)	Area (sy)	PCI	2028 Rehabilitation Cost	2015 Rehabilitation Cost
Collector	Checker_1	Old Hicks Rd	Schaeffer Rd	6369	23	16276	36	\$1,255,150.10	\$520,842.67
CCEstates	Pottawatom	Antietam Dr	Terminus	907	22	2217	40	\$170,972.61	\$70,947.56
Collector	RPCoffin_2	IL Rt 53	Old McHenry Rd	2120	25	5889	42	\$454,121.90	\$188,444.44
CCEstates	SumterCt	Sumter Dr	Terminus	580	23	1482	50	\$114,301.63	\$47,431.11

7% Annual Inflation Compounded:		\$1,166,880.46
Construction Cost:	\$1,994,546.24	\$827,665.78
8% Engineering:	\$159,563.70	\$66,213.26
7% Contingency:	\$139,618.24	\$57,936.60
Total:	\$2,294,000.00	\$952,000.00

(Note: Totals Rounded to nearest \$1,000)

Total Length (FT)	9976
Total Length (Miles)	1.89

PROGRAMMED IMPROVEMENTS
 VILLAGE OF LONG GROVE
 2029 ROAD PROGRAM



Subdivision or Collector	Street	From	To	Length (ft)	Width (ft)	Area (sy)	PCI	2029 Rehabilitation Cost	2015 Rehabilitation Cost
Collector	Long Grove	Village Limits	IL Rt 53	3468	26	10019	85	\$826,671.17	\$320,597.33
Collector	Checker_2	Schaeffer Rd	18376 Checker Rd	2010	22	4913	94	\$405,414.33	\$157,226.67
Collector	OldHicks	IL Rt 53	Checker Rd	4614	23	11791	100	\$972,939.38	\$377,322.67
Residentia	Schaeffer	IL Rt 53	RPC	704	14	1095	100	\$90,361.00	\$35,043.56

7% Annual Inflation Compounded:		\$1,405,195.67
Construction Cost:	\$2,295,385.89	\$890,190.22
8% Engineering:	\$183,630.87	\$71,215.22
7% Contingency:	\$160,677.01	\$62,313.32
Total:	\$2,640,000.00	\$1,024,000.00

(Note: Totals Rounded to nearest \$1,000)

Total Length (FT)	10796
Total Length (Miles)	2.04

Village of Long Grove
Option 2 - Opinion of Probable Cost
(5% & 10% Inflation Summaries)

Option 2 - Additional Inflation Rates

Option 2 - Preliminary 15-Year Road Program Summary (With 5% Inflation)

Year	Preliminary Budget (2015 Dollars)	Adjusted Preliminary Budget (5% Inflation)
2015	\$847,000	\$847,000
2016	\$923,000	\$969,000
2017	\$922,000	\$1,016,000
2018	\$916,000	\$1,060,000
2019	\$935,000	\$1,137,000
2020	\$1,003,000	\$1,280,000
2021	\$958,000	\$1,284,000
2022	\$888,000	\$1,249,000
2023	\$908,000	\$1,342,000
2024	\$1,045,000	\$1,621,000
2025	\$933,000	\$1,520,000
2026	\$922,000	\$1,578,000
2027	\$971,000	\$1,744,000
2028	\$952,000	\$1,795,000
2029	\$1,024,000	\$2,027,000
TOTAL	\$14,147,000	\$20,469,000

Option 2 - Preliminary 15-Year Road Program Summary (With 10% Inflation)

Year	Preliminary Budget (2015 Dollars)	Adjusted Preliminary Budget (10% Inflation)
2015	\$847,000	\$847,000
2016	\$923,000	\$1,015,000
2017	\$922,000	\$1,115,000
2018	\$916,000	\$1,219,000
2019	\$935,000	\$1,369,000
2020	\$1,003,000	\$1,615,000
2021	\$958,000	\$1,698,000
2022	\$888,000	\$1,730,000
2023	\$908,000	\$1,947,000
2024	\$1,045,000	\$2,464,000
2025	\$933,000	\$2,420,000
2026	\$922,000	\$2,632,000
2027	\$971,000	\$3,047,000
2028	\$952,000	\$3,286,000
2029	\$1,024,000	\$3,888,000
TOTAL	\$14,147,000	\$30,292,000

*Totals inclusive of 8% Engineering and 7% Contingency.

Village of Long Grove
Village Map (With PCI Rankings)

Village of Long Grove

Pavement Condition Index (PCI) Reports

(Subdivision Order, Alphabetical Order and Increasing PCI Order)

SUMMARY REPORT BY SUBDIVISION

Branch ID	Section ID	From	To	Length	PCI	PCI Category
Bennington	Knoll Ct	Knoll Rd East	Terminus	649	6	Failed
Bennington	Knoll	Long Grove Rd	Knoll Ct	653	21	Serious
Bennington	Knoll Ct	Knoll Dr West	Terminus	743	25	Serious
BridgeWate	ManassasL	Schaeffer Rd East	Terminus	1,475.00	18	Serious
BridgeWate	ManassasLn	Schaeffer Rd West	Terminus	1,362.00	24	Serious
CCEstates	Lincoln	Lexington Dr	Checker Rd	1,954.00	0	Failed
CCEstates	HollyCt	Schaeffer Rd East	Terminus	648	0	Failed
CCEstates	Shiloh	Old Hicks Rd	IL Rt 53	2,773.00	3	Failed
CCEstates	Shenandoah	Lincoln Ave	Checker Rd	1,838.00	3	Failed
CCEstates	Sheridan	Shiloh Dr	Stayton Ln	911	3	Failed
CCEstates	Federal Ct	Lexington Dr	Terminus	515	5	Failed
CCEstates	Cumberland	Lexington Dr	Lexington Dr	2,224.00	6	Failed
CCEstates	Lincoln	Lexington Rd	Terminus	2,346.00	8	Failed
CCEstates	Union	Lincoln Ave	Terminus	472	10	Failed
CCEstates	Coach	Lexington Rd North	Old Hicks Rd	665	12	Serious
CCEstates	Chickamaug	Sumter Dr	Terminus	3,396.00	12	Serious
CCEstates	GrantPl	Schaeffer Rd	Terminus	625	12	Serious
CCEstates	GrantCt	Grant Pl	Terminus	408	13	Serious
CCEstates	Lexington	Coach Rd	Lincoln Ave	2,681.00	16	Serious
CCEstates	SumterDr	Schaeffer Rd	Terminus	3,010.00	19	Serious
CCEstates	Antietam	Schaeffer Rd	Terminus	1,810.00	22	Serious
CCEstates	Coach	Lexington Rd South	Old Hicks Rd	1,107.00	23	Serious
CCEstates	Cavalry	Lincoln Ave	Terminus	577	31	Very Poor
CCEstates	Pottawatom	Antietam Dr	Terminus	907	40	Very Poor
CCEstates	SumterCt	Sumter Dr	Terminus	580	50	Poor
CCMeadows	CountryClu	Tanager Way	Checker Rd	1,728.00	6	Failed
CCMeadows	HollyCt	Schaeffer Rd West	Tanager Way	764	10	Failed
CCMeadows	Tanager	Holly Ct	Country Club Dr	1,094.00	10	Failed
Collector	Cuba_3	S Krueger Rd	Lakeridge Ct	1,407.00	0	Failed
Collector	Oakwood	IL Rt 83	Partridge Ln	4,344.00	2	Failed
Collector	Schaeffe_2	Checker Rd	Richmond Ln	1,303.00	3	Failed
Collector	Cuba_1	McGinty Farm	Old McHenry Rd	7,310.00	4	Failed
Collector	RPCoffin_1	Old McHenry Rd	IL Rt 83	2,264.00	8	Failed
Collector	Indian Cre	Diamond Lake Rd	Village Limits	3,943.00	11	Serious
Collector	ArlingtonH	Thompson Blvd	Terminus	1,882.00	11	Serious
Collector	Schaeffe_1	Holly Ct	IL Rt 53	3,659.00	15	Serious
Collector	NKrueger	IL Rt 22	Gilmer Rd	5,842.00	23	Serious
Collector	SKrueger	Cuba Rd	Village Limits	1,638.00	24	Serious
Collector	Cuba_2	Lakeridge Ct	McGinty Farm	1,785.00	34	Very Poor
Collector	Checker_1	Old Hicks Rd	Schaeffer Rd	6,369.00	36	Very Poor
Collector	RPCoffin_2	IL Rt 53	Old McHenry Rd	2,120.00	42	Poor
Collector	Long Grove	Village Limits	IL Rt 53	3,468.00	85	Satisfactory
Collector	Checker_2	Schaeffer Rd	18376 Checker Rd	2,010.00	94	Good
Collector	OldHicks	IL Rt 53	Checker Rd	4,614.00	100	Good
Creekside	Private	Creekside Rd	Terminus	643	0	Failed
Creekside	Creekside	Indian Creek Rd	Terminus	3,062.00	25	Serious
Creekside	Arrowhead	Creekside Dr	Terminus	762	33	Very Poor

Branch ID	Section ID	From	To	Length	PCI	PCI Category
Creekside	Tribal	Creekside Dr	Terminus	650	34	Very Poor
Edgebrook	Roanake	Schaeffer Rd	Terminus	357	12	Serious
Edgebrook	Dawn	Schaeffer Rd	Terminus	430	13	Serious
Edgebrook	Schaeffer	Checker Rd North	Terminus	1,242.00	29	Very Poor
EstOakHill	OakGrove1	IL Rt 83	5367 Oak Grove Dr	3,806.00	10	Failed
EstOakHill	OakGroveC	Oak Grove Dr	Oak Grove Dr	2,196.00	26	Very Poor
EstOakHill	OakGrove2	5367 Oak Grove Dr	IL Rt 22	2,477.00	30	Very Poor
Indian Cre	Estate Ln	Indian Creek Rd	Terminus	1,588.00	30	Very Poor
Indian Cre	LakeridgeC	Lakeridge Dr	Terminus	583	35	Very Poor
Indian Cre	LakeridgeD	Indian Creek Rd	Terminus	1,960.00	41	Poor
LakesLG	3LakesDr	RPC	Terminus	2,302.00	17	Serious
LakesLG	3LakesCt	Three Lakes Dr	Terminus	818	24	Serious
LeSavanne	BrittanyCt	Brittany Ln	Terminus	795	2	Failed
LeSavanne	PicardyCt	Picardy Ln	Terminus	1,022.00	4	Failed
LeSavanne	BrittanyLn	Arlington Heights Rd	Picardy Ct	1,046.00	7	Failed
LeSavanne	PicardyLn	Brittany Ct	Picardy Ct	936	8	Failed
MardenEst	Monitor	Middlesax Dr	Allison Ln	535	1	Failed
MardenEst	Middlesax	IL Rt 53	Monitor Ln	951	9	Failed
MardenEst	Monticello	Middlesax Dr	Terminus	583	9	Failed
MardenEst	Mayflower	Middlesax Dr	Terminus	319	11	Serious
MardenEst	Merrimac	Middlesax Dr	Terminus	580	17	Serious
MardenWood	EMardan	Mardan Dr	Monitor Ln	1,834.00	1	Failed
MardenWood	WMardan	Mardan Dr	Monitor Ln	1,943.00	2	Failed
MardenWood	Monitor Ln	Hidden Valley	Middlesax Dr	1,659.00	4	Failed
MardenWood	Mardan	IL Rt 53	E/W Mardan Dr	260	10	Failed
Oak Island	RollingGle	Crestivew Dr	Terminus	816	3	Failed
Oak Island	Crestview	Cuba Rd	Terminus	1,609.00	19	Serious
OakwoodCre	Oakwood	Oakwood Rd	Oakwood Rd	3,354.00	9	Failed
Promontory	Port Clint	Tall Oaks Dr	Terminus	2,700.00	12	Serious
Promontory	PortClinto	IL Rt 83	Tall Oaks Dr	550	22	Serious
Promontory	Tall Oaks	IL Rt 22	Port Clinton Rd	4,441.00	28	Very Poor
PromoRidge	Hampton	IL Rt 22	Port Clinton Rd	2,538.00	26	Very Poor
Residentia	Schaeffer	IL Rt 53	RPC	704	100	Good
Skycrest	Hilltop	IL Rt 83	Terminus	2,343.00	4	Failed
Skycrest	Golf	Hilltop Rd	Sunshine Ln	846	10	Failed
Skycrest	Sunshine	Golf Rd	Terminus	473	11	Serious
Towers	Meadow	IL Rt 83	Osage Ln	408	7	Failed
Towers	Willow Spr	Osage Ln	Terminus	1,340.00	8	Failed
Towers	Meadow	Willow Spring Rd	Osage Ln	1,449.00	10	Failed
Towers	Willow Spr	Village Limits at IL Rt 83	Osage Ln	480	16	Serious
Towers	Osage	Willow Spring Rd	Meadow Ln	1,823.00	40	Very Poor

SUMMARY REPORT BY BRANCH

Branch ID	Section ID	From	To	Length	PCI	PCI Category
Bennington	Knoll	Long Grove Rd	Knoll Ct	653	21	Serious
Bennington	Knoll Ct	Knoll Rd East	Terminus	649	6	Failed
Bennington	Knoll Ct	Knoll Dr West	Terminus	743	25	Serious
BridgeWate	ManassasL	Schaeffer Rd East	Terminus	1,475.00	18	Serious
BridgeWate	ManassasLn	Schaeffer Rd West	Terminus	1,362.00	24	Serious
CCEstates	Antietam	Schaeffer Rd	Terminus	1,810.00	22	Serious
CCEstates	Cavalry	Lincoln Ave	Terminus	577	31	Very Poor
CCEstates	Chickamaug	Sumter Dr	Terminus	3,396.00	12	Serious
CCEstates	Coach	Lexington Rd North	Old Hicks Rd	665	12	Serious
CCEstates	Coach	Lexington Rd South	Old Hicks Rd	1,107.00	23	Serious
CCEstates	Cumberland	Lexington Dr	Lexington Dr	2,224.00	6	Failed
CCEstates	Federal Ct	Lexington Dr	Terminus	515	5	Failed
CCEstates	GrantCt	Grant Pl	Terminus	408	13	Serious
CCEstates	GrantPl	Schaeffer Rd	Terminus	625	12	Serious
CCEstates	HollyCt	Schaeffer Rd East	Terminus	648	0	Failed
CCEstates	Lexington	Coach Rd	Lincoln Ave	2,681.00	16	Serious
CCEstates	Lincoln	Lexington Dr	Checker Rd	1,954.00	0	Failed
CCEstates	Lincoln	Lexington Rd	Terminus	2,346.00	8	Failed
CCEstates	Pottawatom	Antietam Dr	Terminus	907	40	Very Poor
CCEstates	Shenandoah	Lincoln Ave	Checker Rd	1,838.00	3	Failed
CCEstates	Sheridan	Shiloh Dr	Stayton Ln	911	3	Failed
CCEstates	Shiloh	Old Hicks Rd	IL Rt 53	2,773.00	3	Failed
CCEstates	SumterCt	Sumter Dr	Terminus	580	50	Poor
CCEstates	SumterDr	Schaeffer Rd	Terminus	3,010.00	19	Serious
CCEstates	Union	Lincoln Ave	Terminus	472	10	Failed
CCMeadows	CountryClu	Tanager Way	Checker Rd	1,728.00	6	Failed
CCMeadows	HollyCt	Schaeffer Rd West	Tanager Way	764	10	Failed
CCMeadows	Tanager	Holly Ct	Country Club Dr	1,094.00	10	Failed
Collector	ArlingtonH	Thompson Blvd	Terminus	1,882.00	11	Serious
Collector	Checker_1	Old Hicks Rd	Schaeffer Rd	6,369.00	36	Very Poor
Collector	Checker_2	Schaeffer Rd	18376 Checker Rd	2,010.00	94	Good
Collector	Cuba_1	McGinty Farm	Old McHenry Rd	7,310.00	4	Failed
Collector	Cuba_2	Lakeridge Ct	McGinty Farm	1,785.00	34	Very Poor
Collector	Cuba_3	S Krueger Rd	Lakeridge Ct	1,407.00	0	Failed
Collector	Indian Cre	Diamond Lake Rd	Village Limits	3,943.00	11	Serious
Collector	Long Grove	Village Limits	IL Rt 53	3,468.00	85	Satisfactory
Collector	NKrueger	IL Rt 22	Gilmer Rd	5,842.00	23	Serious
Collector	Oakwood	IL Rt 83	Partridge Ln	4,344.00	2	Failed
Collector	OldHicks	IL Rt 53	Checker Rd	4,614.00	100	Good
Collector	RPCoffin_1	Old McHenry Rd	IL Rt 83	2,264.00	8	Failed
Collector	RPCoffin_2	IL Rt 53	Old McHenry Rd	2,120.00	42	Poor

Branch ID	Section ID	From	To	Length	PCI	PCI Category
Collector	Schaeffe_1	Holly Ct	IL Rt 53	3,659.00	15	Serious
Collector	Schaeffe_2	Checker Rd	Richmond Ln	1,303.00	3	Failed
Collector	SKrueger	Cuba Rd	Village Limits	1,638.00	24	Serious
Creekside	Arrowhead	Creekside Dr	Terminus	762	33	Very Poor
Creekside	Creekside	Indian Creek Rd	Terminus	3,062.00	25	Serious
Creekside	Private	Creekside Rd	Terminus	643	0	Failed
Creekside	Tribal	Creekside Dr	Terminus	650	34	Very Poor
Edgebrook	Dawn	Schaeffer Rd	Terminus	430	13	Serious
Edgebrook	Roanake	Schaeffer Rd	Terminus	357	12	Serious
Edgebrook	Schaeffer	Checker Rd North	Terminus	1,242.00	29	Very Poor
EstOakHill	OakGrove1	IL Rt 83	5367 Oak Grove Dr	3,806.00	10	Failed
EstOakHill	OakGrove2	5367 Oak Grove Dr	IL Rt 22	2,477.00	30	Very Poor
EstOakHill	OakGroveC	Oak Grove Dr	Oak Grove Dr	2,196.00	26	Very Poor
Indian Cre	Estate Ln	Indian Creek Rd	Terminus	1,588.00	30	Very Poor
Indian Cre	LakeridgeC	Lakeridge Dr	Terminus	583	35	Very Poor
Indian Cre	LakeridgeD	Indian Creek Rd	Terminus	1,960.00	41	Poor
LakesLG	3LakesCt	Three Lakes Dr	Terminus	818	24	Serious
LakesLG	3LakesDr	RPC	Terminus	2,302.00	17	Serious
LeSavanne	BrittanyCt	Brittany Ln	Terminus	795	2	Failed
LeSavanne	BrittanyLn	Arlington Heights Rd	Picardy Ct	1,046.00	7	Failed
LeSavanne	PicardyCt	Picardy Ln	Terminus	1,022.00	4	Failed
LeSavanne	PicardyLn	Brittany Ct	Picardy Ct	936	8	Failed
MardenEst	Mayflower	Middlesax Dr	Terminus	319	11	Serious
MardenEst	Merrimac	Middlesax Dr	Terminus	580	17	Serious
MardenEst	Middlesax	IL Rt 53	Monitor Ln	951	9	Failed
MardenEst	Monitor	Middlesax Dr	Allison Ln	535	1	Failed
MardenEst	Monticello	Middlesax Dr	Terminus	583	9	Failed
MardenWood	EMardan	Mardan Dr	Monitor Ln	1,834.00	1	Failed
MardenWood	Mardan	IL Rt 53	E/W Mardan Dr	260	10	Failed
MardenWood	Monitor Ln	Hidden Valley	Middlesax Dr	1,659.00	4	Failed
MardenWood	WMardan	Mardan Dr	Monitor Ln	1,943.00	2	Failed
Oak Island	Crestview	Cuba Rd	Terminus	1,609.00	19	Serious
Oak Island	RollingGle	Crestivew Dr	Terminus	816	3	Failed
OakwoodCre	Oakwood	Oakwood Rd	Oakwood Rd	3,354.00	9	Failed
Promontory	Port Clint	Tall Oaks Dr	Terminus	2,700.00	12	Serious
Promontory	PortClinto	IL Rt 83	Tall Oaks Dr	550	22	Serious
Promontory	Tall Oaks	IL Rt 22	Port Clinton Rd	4,441.00	28	Very Poor
PromoRidge	Hampton	IL Rt 22	Port Clinton Rd	2,538.00	26	Very Poor
Residentia	Schaeffer	IL Rt 53	RPC	704	100	Good
Skycrest	Golf	Hilltop Rd	Sunshine Ln	846	10	Failed
Skycrest	Hilltop	IL Rt 83	Terminus	2,343.00	4	Failed
Skycrest	Sunshine	Golf Rd	Terminus	473	11	Serious

Branch ID	Section ID	From	To	Length	PCI	PCI Category
Towers	Meadow	IL Rt 83	Osage Ln	408	7	Failed
Towers	Meadow	Willow Spring Rd	Osage Ln	1,449.00	10	Failed
Towers	Osage	Willow Spring Rd	Meadow Ln	1,823.00	40	Very Poor
Towers	Willow Spr	Osage Ln	Terminus	1,340.00	8	Failed
Towers	Willow Spr	Village Limits at IL Rt 83	Osage Ln	480	16	Serious

SUMMARY REPORT BY PCI

Branch ID	Section ID	From	To	Length	PCI	PCI Category
CCEstates	HollyCt	Schaeffer Rd East	Terminus	648	0	Failed
CCEstates	Lincoln	Lexington Dr	Checker Rd	1,954.00	0	Failed
Collector	Cuba_3	S Krueger Rd	Lakeridge Ct	1,407.00	0	Failed
Creekside	Private	Creekside Rd	Terminus	643	0	Failed
MardenEst	Monitor	Middlesax Dr	Allison Ln	535	1	Failed
MardenWood	EMardan	Mardan Dr	Monitor Ln	1,834.00	1	Failed
Collector	Oakwood	IL Rt 83	Partridge Ln	4,344.00	2	Failed
LeSavanne	BrittanyCt	Brittany Ln	Terminus	795	2	Failed
MardenWood	WMardan	Mardan Dr	Monitor Ln	1,943.00	2	Failed
CCEstates	Shenandoah	Lincoln Ave	Checker Rd	1,838.00	3	Failed
CCEstates	Sheridan	Shiloh Dr	Stayton Ln	911	3	Failed
CCEstates	Shiloh	Old Hicks Rd	IL Rt 53	2,773.00	3	Failed
Collector	Schaeffe_2	Checker Rd	Richmond Ln	1,303.00	3	Failed
Oak Island	RollingGle	Crestivew Dr	Terminus	816	3	Failed
Collector	Cuba_1	McGinty Farm	Old McHenry Rd	7,310.00	4	Failed
LeSavanne	PicardyCt	Picardy Ln	Terminus	1,022.00	4	Failed
MardenWood	Monitor Ln	Hidden Valley	Middlesax Dr	1,659.00	4	Failed
Skycrest	Hilltop	IL Rt 83	Terminus	2,343.00	4	Failed
CCEstates	Federal Ct	Lexington Dr	Terminus	515	5	Failed
Bennington	Knoll Ct	Knoll Rd East	Terminus	649	6	Failed
CCEstates	Cumberland	Lexington Dr	Lexington Dr	2,224.00	6	Failed
CCMeadows	CountryClu	Tanager Way	Checker Rd	1,728.00	6	Failed
LeSavanne	BrittanyLn	Arlington Heights Rd	Picardy Ct	1,046.00	7	Failed
Towers	Meadow	IL Rt 83	Osage Ln	408	7	Failed
CCEstates	Lincoln	Lexington Rd	Terminus	2,346.00	8	Failed
Collector	RPCoffin_1	Old McHenry Rd	IL Rt 83	2,264.00	8	Failed
LeSavanne	PicardyLn	Brittany Ct	Picardy Ct	936	8	Failed
Towers	Willow Spr	Osage Ln	Terminus	1,340.00	8	Failed
MardenEst	Middlesax	IL Rt 53	Monitor Ln	951	9	Failed
MardenEst	Monticello	Middlesax Dr	Terminus	583	9	Failed
OakwoodCre	Oakwood	Oakwood Rd	Oakwood Rd	3,354.00	9	Failed
CCEstates	Union	Lincoln Ave	Terminus	472	10	Failed
CCMeadows	HollyCt	Schaeffer Rd West	Tanager Way	764	10	Failed
CCMeadows	Tanager	Holly Ct	Country Club Dr	1,094.00	10	Failed
EstOakHill	OakGrove1	IL Rt 83	5367 Oak Grove Dr	3,806.00	10	Failed
MardenWood	Mardan	IL Rt 53	E/W Mardan Dr	260	10	Failed
Skycrest	Golf	Hilltop Rd	Sunshine Ln	846	10	Failed
Towers	Meadow	Willow Spring Rd	Osage Ln	1,449.00	10	Failed
Collector	ArlingtonH	Thompson Blvd	Terminus	1,882.00	11	Serious
Collector	Indian Cre	Diamond Lake Rd	Village Limits	3,943.00	11	Serious
MardenEst	Mayflower	Middlesax Dr	Terminus	319	11	Serious

Branch ID	Section ID	From	To	Length	PCI	PCI Category
Skycrest	Sunshine	Golf Rd	Terminus	473	11	Serious
CCEstates	Chickamaug	Sumter Dr	Terminus	3,396.00	12	Serious
CCEstates	Coach	Lexington Rd North	Old Hicks Rd	665	12	Serious
CCEstates	GrantPl	Schaeffer Rd	Terminus	625	12	Serious
Edgebrook	Roanake	Schaeffer Rd	Terminus	357	12	Serious
Promontory	Port Clint	Tall Oaks Dr	Terminus	2,700.00	12	Serious
CCEstates	GrantCt	Grant Pl	Terminus	408	13	Serious
Edgebrook	Dawn	Schaeffer Rd	Terminus	430	13	Serious
Collector	Schaeffe_1	Holly Ct	IL Rt 53	3,659.00	15	Serious
CCEstates	Lexington	Coach Rd	Lincoln Ave	2,681.00	16	Serious
Towers	Willow Spr	Village Limits at IL Rt 83	Osage Ln	480	16	Serious
LakesLG	3LakesDr	RPC	Terminus	2,302.00	17	Serious
MardenEst	Merrimac	Middlesax Dr	Terminus	580	17	Serious
BridgeWate	ManassasL	Schaeffer Rd East	Terminus	1,475.00	18	Serious
CCEstates	SumterDr	Schaeffer Rd	Terminus	3,010.00	19	Serious
Oak Island	Crestview	Cuba Rd	Terminus	1,609.00	19	Serious
Bennington	Knoll	Long Grove Rd	Knoll Ct	653	21	Serious
CCEstates	Antietam	Schaeffer Rd	Terminus	1,810.00	22	Serious
Promontory	PortClinto	IL Rt 83	Tall Oaks Dr	550	22	Serious
CCEstates	Coach	Lexington Rd South	Old Hicks Rd	1,107.00	23	Serious
Collector	NKrueger	IL Rt 22	Gilmer Rd	5,842.00	23	Serious
BridgeWate	ManassasLn	Schaeffer Rd West	Terminus	1,362.00	24	Serious
Collector	SKrueger	Cuba Rd	Village Limits	1,638.00	24	Serious
LakesLG	3LakesCt	Three Lakes Dr	Terminus	818	24	Serious
Bennington	Knoll Ct	Knoll Dr West	Terminus	743	25	Serious
Creekside	Creekside	Indian Creek Rd	Terminus	3,062.00	25	Serious
EstOakHill	OakGroveC	Oak Grove Dr	Oak Grove Dr	2,196.00	26	Very Poor
PromoRidge	Hampton	IL Rt 22	Port Clinton Rd	2,538.00	26	Very Poor
Promontory	Tall Oaks	IL Rt 22	Port Clinton Rd	4,441.00	28	Very Poor
Edgebrook	Schaeffer	Checker Rd North	Terminus	1,242.00	29	Very Poor
EstOakHill	OakGrove2	5367 Oak Grove Dr	IL Rt 22	2,477.00	30	Very Poor
Indian Cre	Estate Ln	Indian Creek Rd	Terminus	1,588.00	30	Very Poor
CCEstates	Cavalry	Lincoln Ave	Terminus	577	31	Very Poor
Creekside	Arrowhead	Creekside Dr	Terminus	762	33	Very Poor
Collector	Cuba_2	Lakeridge Ct	McGinty Farm	1,785.00	34	Very Poor
Creekside	Tribal	Creekside Dr	Terminus	650	34	Very Poor
Indian Cre	LakeridgeC	Lakeridge Dr	Terminus	583	35	Very Poor
Collector	Checker_1	Old Hicks Rd	Schaeffer Rd	6,369.00	36	Very Poor
CCEstates	Pottawatom	Antietam Dr	Terminus	907	40	Very Poor
Towers	Osage	Willow Spring Rd	Meadow Ln	1,823.00	40	Very Poor
Indian Cre	LakeridgeD	Indian Creek Rd	Terminus	1,960.00	41	Poor
Collector	RPCoffin_2	IL Rt 53	Old McHenry Rd	2,120.00	42	Poor

Branch ID	Section ID	From	To	Length	PCI	PCI Category
CCEstates	SumterCt	Sumter Dr	Terminus	580	50	Poor
Collector	Long Grove	Village Limits	IL Rt 53	3,468.00	85	Satisfactory
Collector	Checker_2	Schaeffer Rd	18376 Checker Rd	2,010.00	94	Good
Collector	OldHicks	IL Rt 53	Checker Rd	4,614.00	100	Good
Residentia	Schaeffer	IL Rt 53	RPC	704	100	Good

PCI Rating System Methodology

PAVER™ 6.5 Brochure

PAVER™

6.5

*NEW DIMENSIONS IN PAVEMENT
MAINTENANCE MANAGEMENT*



**US Army Corps Of Engineers
Engineer Research And Development Center
Construction Engineering Research Laboratory**

Background

PAVER™ is a pavement management system developed by the US Army Corps Of Engineers, Construction Engineering Research Laboratory (CERL). PAVER™ development is supported by the following agencies: US Air Force, US Army, US Navy, Federal Aviation Administration, and the Federal Highway Administration.

PAVER™ provides pavement management capabilities to: (1) develop and organize the pavement inventory; (2) assess the current condition of pavements; (3) develop models to predict future conditions; (4) report on past and future pavement performance; (5) develop scenarios for M&R based on budget or condition requirements; and (6) plan projects.

The following is a brief overview of the PAVER™ components and capabilities.

Inventory

PAVER™ inventory management is based on a hierarchical structure composed of networks, branches, and sections, with the section being the smallest managed unit. This structure allows users to easily organize their inventory while providing numerous fields and levels for storing pavement data.

These are some of the other features included in Inventory:

- **User-defined Fields:** In addition to the standard inventory information, users can define their own fields to meet their management requirements.

- **Virtual Inventory:** Allows the user to create virtual copies of the existing inventory and group sections for easy presentation.
- **Surface Change:** Automatically calculates and updates pavement surface based on work history information.
- **Edit Historical Inventory:** Easily edit historical inventory values associated with previous inspections.

Inspection

To assess pavement condition, PAVER™ uses the Pavement Condition Index (PCI) as its primary standard. The PCI measures pavement condition on a scale from 0 to 100. ASTM has adopted the PCI as standard practice for roads (D-6433-10) and airfields (D-5340-10). PAVER™ provides users the ability to customize the PCI condition rating categories, Figure 1. PAVER™ also allows the user an interface for recording the results of an inspection and an online distress user guide, Figure 2.

In addition to the PCI, PAVER™ allows managers to use and create other condition indices, including those based on PCI distresses. A new interface has been added for easily importing inspection data from automated vehicle collection sources.

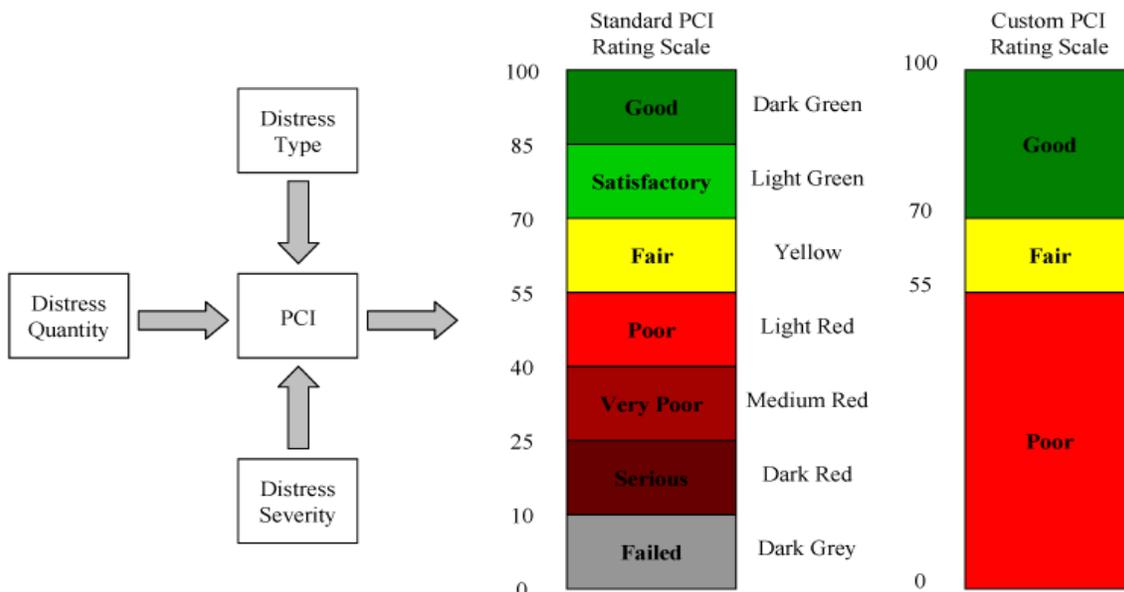


Figure 1: Pavement Condition Index (PCI) ranges may be customized and used for reporting analysis results.