

Prepared for
Town of Boiling Springs
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Town of Boiling Springs
FY 2018
Pavement Condition Assessment Report



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I. Introduction

Odom Engineering, PLLC was retained by the Town of Boiling Springs to perform a pavement condition survey of the Town's street system in 2017 (FY2018). The purpose of this report is to develop a long-term street assessment tool to assist the Town of Boiling Springs in scheduling the paving sequence of town maintained streets. Additionally, the ranking system included within this report establishes a baseline for street condition assessment that can be utilized for various town rehabilitation and improvement projects. The data within this report also serves as supportive documentation for the Powell Bill Program.

The pavement condition survey was conducted in 2017 and includes 22 miles of roadway. The Town of Boiling Springs receives a total of \$130,000 annually from the Powell Bill funding program. Each year, the Town allocates approximately \$94,000 for resurfacing streets, \$24,000 for sidewalk improvements, and \$9,000 for patching & draining projects.

II. Powell Bill Program

General Statutes 136-41.1 through General Statutes 136.41.4 require the North Carolina Department of Transportation to annually appropriate out of Highway Fund, two allocations each fiscal year to all active and qualifying municipalities. Eligible cities and towns are annually appropriated out of the State Highway Fund. The funds shall be allocated on or before October 1 and January 1 each year to allow for sufficient time for verification of information. These funds are to be expended primarily for the resurfacing of streets within the corporate limits of the municipality.

The total amount allocated is seventy-five percent (75%) on the basis of relative population and twenty-five percent (25%) on the basis of relative non-State System local street mileage.

Powell Bill funds are distributed to cities and towns to assist them in maintaining, constructing, reconstructing, repairing and improving streets or public thoroughfares, bikeways, greenways, and sidewalks within their corporate limits (G.S. 136.41.1 through G.S. 136.41.4).

Compliance

Each municipality receiving a Powell Bill allocation is required to keep a separate record of detailed accounts with all receipts and expenditures of the funds. Municipalities are also required to submit a financial statement to the Department of Transportation at the end of each year.

Recent Powell Bill expenditure guidance states that each municipality should spend 80% of allocated funds on street resurfacing.

III. Pavement Condition Assessment

Methodology

The pavement condition was assessed by observing all town streets during a field surveying. A complete inventory of the streets and corresponding mileages was obtained from the 2016 Powell Bill Map. The

field survey was conducted by meticulously evaluating all streets and noting the existing surface distress. The evaluation was performed by one individual to eliminate potential differences in the assessment.

Data Collection

Data was collected by evaluating each street and recording observations. The data was used to develop a 5-point ranking system to categorize the pavement's condition based on the level of distress present. Factors that determine street condition include the presence of longitudinal, alligator, and transverse cracking; potholes, weathering and raveling; depressions, bumps and sags; shoulder drop-off, the condition of subsurface drainage systems, visible runoff, and the texture of surface course material. The ranking system is a key part of the street assessment tool used to determining street priority for pavement improvement projects.

Observations

Based on observation the following ranks were determined:

RANK 1

A street in this rank is in very good condition and requires little to no maintenance, has no longitudinal cracking, and subsurface drainage systems are in good working condition. The street is either newly constructed or has had a recent application of sealcoat. Transverse cracks may be present occasionally if they are widely spaced; providing at least 40 feet between cracks.

RANK 2

Rank 2 is a street in good condition that displays the first signs of aging. A street in this condition shows very little surface raveling but does show some traffic wear. Transverse cracks may be present with a depth measuring less than ¼ inch deep and spaced no less than 10 feet apart. The recommendation for pavement in this condition is to maintain the street with routine crack filling and/or surface sealing to prevent further deterioration.

RANK 3

Rank 3 describes a street in fair condition; this street exhibits significant aging and the need for strengthening is apparent. Pavement in fair condition displays both longitudinal and transverse cracking with moderate raveling. Streets in this condition would benefit from milling and restoration or asphalt overlay. Asphalt patching, hot crack filling, and slurry re-surfacing may also be viable restoration options. This is recommended as a minimum treatment.

RANK 4

Streets classified as Rank 4 are in poor condition and have occasional potholes in the pavement, as well as very poor drainage. The pavement is unable to shed water in this condition. Streets in poor condition require patching and major overlay or complete recycling. Milling, asphalt overlay, hot crack filling, or slurry resurfacing are recommended as a minimum treatment.

RANK 5

A street that is given Rank 5 is in very poor condition and severely deteriorated. A Rank 5 Street displays alligator cracking on more than 25% of the surface, and has severe distortions over 2 inches deep. Potholes and extensive patching with very poor to no drainage also meet the criteria for a street in very poor

condition. The pavement shows severe deterioration and reconstruction with extensive base repair is recommended.

Table 1: Pavement Condition Ranking System

RANK	OBSERVATION	GENERAL CONDITION
1 - VERY GOOD	No longitudinal cracks except reflection of paving joints. Occasional transverse cracks, widely spaced (40' or greater).	New construction or recent sealcoat. Good surface condition with excellent drainage.
2 - GOOD	Very little surface raveling, surface shows some traffic wear. Transverse cracks (open < 1/4") spaced 10 feet or more apart. Little or slight crack raveling. Fairly good drainage system.	First signs of aging.
3 - FAIR	Increased surface raveling with multiple longitudinal & transverse cracks. Slight rutting or distortions 1/2" deep or less. Cracking or irregular surfaces associated with utilities in road areas.	Significant aging and first sign of need for strengthening.
4 - POOR	Pavement would benefit from milling and restoration or asphalt overlay; hot crack filling and slurry re-surfacing; or asphalt patching at a minimum.	Patches in fair to poor condition. Moderate rutting or distortion. Occasional potholes. Pavement has poor drainage and is unable to shed water.
5 - VERY POOR	Alligator cracking (greater than 25% of surface). Severe distortions (over 2" deep). Extensive patching in poor condition. Potholes. Poor or no drainage works.	Severe deterioration.

Examples:

Examples of each condition rank found in Boiling Springs can be found on the following page.

RANK 5 - Hunters Pointe Subdivision Observations



Images taken in 2017 of streets located in Hunters Pointe subdivision

Hunters Point Subdivision includes Riverchase Drive, Point Crossing, Posting Place, and Fox Ridge Road. These streets have been categorized as Rank 5 due to their severe deterioration. Block cracking, surface raveling, and edge deterioration was observed during street survey. The images above display alligator cracking, cracking with slurry, and longitudinal cracking found within the subdivision.

The streets within this subdivision are top priority for 2018 resurfacing projects. While these streets had a slurry applied to them a few years ago in an attempt repair the alligator cracking, the desired outcome was not achieved. The last complete re-pavement was done 14 years ago.

RANK 4 – Ramsgate Drive Observations



Images taken in 2017 on Ramsgate Drive

Ramsgate Drive is categorized as Rank 4 and resurfacing for this street will be prioritized in 2019. The main area of concern is the main entry off Main Street. Irregular surface drainage conditions, weed intrusions, and cracking noted.

RANK 3 – Wayne Court Observations



Images taken in 2017 of Wayne Court

Wayne Court will be prioritized for resurfacing in 2019. This street is Rank 3 and shows signs of raveling, cracking, and settlement. This street shows significant aging and requires strengthening.

RANK 2 – White Tail Drive

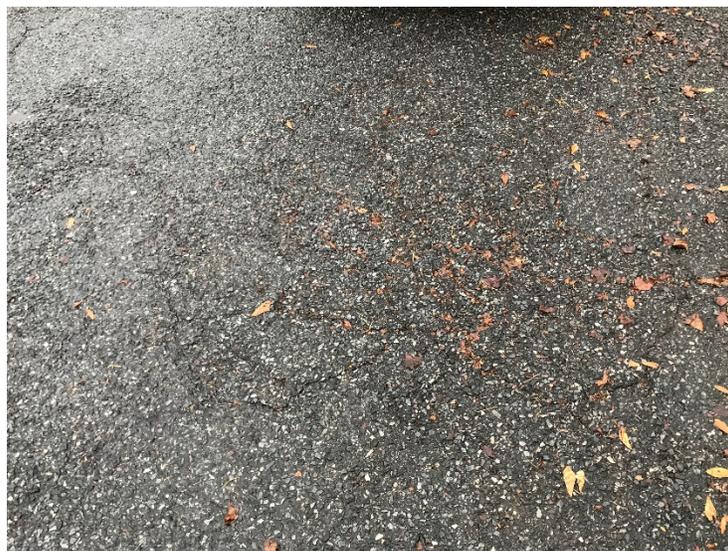


Image taken on White Tail Drive in 2017

White Tail Drive is beginning to show the first signs of aging with minor cracking.

RANK 1 – Gordon Ave



Image taken

Gordon Avenue is in good condition with excellent drainage.

Final Street Assessment Tool

The ranking system was then used to create the final street assessment tool and cost estimate. The street assessment spreadsheet combines the condition rank from the 5-point ranking system and the frequency of use to prioritize each street based on a total. The spreadsheet also includes the street mileage (sourced from the 2016 Powell Bill Map) and price per mile.

The “Frequency of Use” data column is based on the type of street, the location of the street, and how often travelers utilize the street. Generally, if the street is a small cul-de-sac within a subdivision, the frequency of use is assumed to be low. Main streets within subdivisions were given a higher rating, as they are used by only a select number of travelers a few times daily. The frequency of usage for each street may correlate with the condition. If the street is in a central location, such as near the college campus, and in poor condition, we can assume that this street has a very high frequency of use.

The “Priority Rank” is a summation of the condition rank and the frequency of use. The projects within the next five years have been sorted by priority rank.

The “Resurfacing Year” has been determined by pavement condition rank and frequency of use for the streets to be resurfaced within the next five years (2018-2022).

Exclusions

Memorial Drive and Emily Lane have been excluded from this assessment report. Gardner Webb owns most of the parcels along these streets. Gardner Webb University will be responsible for maintaining these streets. The Town of Boiling Springs will not be improving these streets.

IV. Analysis of Results

The data from the street survey, as well as additional information such as mileage, was used to create an assessment tool. The assessment tool has been utilized to create a paving plan for the next five years based on necessity and location to efficiently maintain and repair streets.

All streets categorized as Rank 4 and Rank 5 are prioritized for resurfacing in the first five years. Some Rank 3 streets are also included in the 5-year pavement plan. All streets in the five-year plan were prioritized by condition rank and frequency of use. The remaining streets may be evaluated in the future and sorted by priority rank.

The street assessment tool is attached. This device can be revised as needed.

V. Summary of Recommendations

Recommendations include stormwater improvements, full-depth asphalt patching, and a one-inch overlay; depending on what each street needs. It is also recommended that the following streets be resurfaced within the next five years according to Odom Engineering, PLLC’s assessment:

1. Riverchase Drive
2. Fox Ridge Road
3. Point Crossing
4. Posting Place
5. Hamrick Avenue
6. Ramsgate Drive
7. Poston Circle
8. Wayne Court
9. Oliver Avenue
10. Lindsey Lee Court
11. Hillcrest Street
12. Twin Lake Drive
13. Ken Dave’s Road
14. Chickasaw Drive
15. Silver Creek Lane

These streets will be prioritized for resurfacing in years 2018-2022. The Town’s goal is to allocation \$94,000 per year for resurfacing projects, however this amount may differ.

FIVE YEAR PLAN TOTALS		
YEAR 1	2018	\$80,300.00
YEAR 2	2019	\$86,900.00
YEAR 3	2020	\$132,000.00
YEAR 4	2021	\$92,400.00
YEAR 5	2022	\$88,000.00
TOTAL		\$479,600.00

A complete summary of the 5-year paving plan can be reviewed in Appendix A of this report.

VI. Explanation of Cost Estimate

The cost estimate was established based on three components: stormwater improvements, full-depth patching, and a one-inch overlay. This street assessment report did not evaluate stormwater improvements for each street individually and recognizing that this condition will change frequently, an allowance was provided based upon the overall street length.

Experience has shown that an allowance of \$10,000 per mile is a reasonable average for stormwater improvements. The full-depth patch allowance has averaged approximately \$25,000 per mile over the last five resurfacing projects. Finally, a one-inch overlay has averaged \$75,000 per mile over the last five projects. The combination of the average of the three components gives us an annual allowance of \$110,000. This was factored into the paving report to create a priority list of streets that will be paved within the next five years.

GENERAL LOCATION	ROAD NAME	ROAD LENGTH (MI.)	CONDITION RANK	FREQUENCY OF USE	Priority Rank	COST (\$110,000 PER MILE)	RESURFACING YEAR
HUNTERS POINTE	Riverchase Dr	0.17	5	2	7	\$18,700.00	2018
HUNTERS POINTE	Fox Ridge Rd	0.13	5	1	6	\$14,300.00	2018
HUNTERS POINTE	Point Crossing	0.15	5	1	6	\$16,500.00	2018
HUNTERS POINTE	Posting Pl.	0.05	5	1	6	\$5,500.00	2018
CENTRAL	Hamrick Ave	0.23	4	2	6	\$25,300.00	2018
RAMSGATE	Ramsgate Dr	0.36	4	2	6	\$39,600.00	2019
DEHART	Poston Cir	0.24	4	1	5	\$26,400.00	2019
DEHART	Wayne Ct	0.04	3.5	2	5.5	\$4,400.00	2019
EAST HOMESTEAD	Oliver Ave	0.15	3	3	6	\$16,500.00	2019
HOMESTEAD ACRES SOUTH	Lindsey Lee Ct	0.43	3	3	6	\$47,300.00	2020
HILLCREST	Hillcrest St	0.77	3	3	6	\$84,700.00	2020
TWIN LAKES	Twin Lake Dr	0.51	3	2	5	\$56,100.00	2021
EAST HOMESTEAD	Ken Dave's Rd	0.33	3	2	5	\$36,300.00	2021
HOMESTEAD ACRES NORTH	Chickasaw Dr	0.45	3	2	5	\$49,500.00	2022
HOMESTEAD ACRES NORTH	Silver Ck Ln	0.35	3	2	5	\$38,500.00	2022

FIVE YEAR PLAN TOTALS		
YEAR 1	2018	\$80,300.00
YEAR 2	2019	\$86,900.00
YEAR 3	2020	\$132,000.00
YEAR 4	2021	\$92,400.00
YEAR 5	2022	\$88,000.00
TOTAL		\$479,600.00

GENERAL LOCATION	ROAD NAME	ROAD LENGTH (MI.)	CONDITION RANK	FREQUENCY OF USE	Priority Rank	COST (\$110,000 PER MILE)	RESURFACING YEAR	COMMENTS
HUNTERS POINTE	Riverchase Dr	0.17	5	2	7	\$18,700.00	2018	Deep block cracking, settlement and surface raveling.
HUNTERS POINTE	Fox Ridge Rd	0.13	5	1	6	\$14,300.00	2018	block cracking, raveling.
HUNTERS POINTE	Point Crossing	0.15	5	1	6	\$16,500.00	2018	raveling, cracking & settlement.
HUNTERS POINTE	Posting Pl.	0.05	5	1	6	\$5,500.00	2018	cul-de-sac – cracking, raveling.
CENTRAL	Hamrick Ave	0.23	4	2	6	\$25,300.00	2018	Cracking, block cracking, surface raveling, deep settlement with patch in centerline
RAMSGATE	Ramsgate Dr	0.36	4	2	6	\$39,600.00	2019	Problem area at main entry off Main St. Dead end cul-de-sac.
DEHART	Poston Cir	0.24	4	1	5	\$26,400.00	2019	Surface is rough asphalt material, condition is sound.
DEHART	Wayne Ct	0.04	3.5	2	5.5	\$4,400.00	2019	raveling, cracking & settlement.
EAST HOMESTEAD	Oliver Ave	0.15	3	3	6	\$16,500.00	2019	Asphalt turns into gravel. (2) resid. Served. Commercial tie-in for parking at N. main St. Very poor
HOMESTEAD ACRES SOUTH	Lindsey Lee Ct	0.43	3	3	6	\$47,300.00	2020	Subdivision roads in good condition. Occasional surface cracking.
HILLCREST	Hillcrest St	0.77	3	3	6	\$84,700.00	2020	Cracking, settlement associated with utilities. Appears to have reflective cracking
TWIN LAKES	Twin Lake Dr	0.51	3	2	5	\$56,100.00	2021	Generally sound may have been recently resurfaced. Rough area at end near #102.
EAST HOMESTEAD	Ken Dave's Rd	0.33	3	2	5	\$36,300.00	2021	Road has been treated with surface split seal course (Oil & Chat) and has asph. Patches
HOMESTEAD ACRES NORTH	Chickasaw Dr	0.45	3	2	5	\$49,500.00	2022	Fairly course asphalt surface with surface cracking. Would be greatly improved with new surface course.
HOMESTEAD ACRES NORTH	Silver Ck Ln	0.35	3	2	5	\$38,500.00	2022	Fair condition with cracking - would benefit from surface course
GORDON AVE	Beason Dr	0.47	3	2	5	\$51,700.00	TBD	Cracking, irregular surface and rough asphalt aggregate surface. Root uplift at edge.
EAST HOMESTEAD	Lawhon St	0.25	3	2	5	\$27,500.00	TBD	Edge cracking, surface cracking, settlement and patch area, heavier surface raveling @ #227.
HILLCREST	Wall Ave - West	0.225	3	2	5	\$24,750.00	TBD	Cracking, settlement with patching in centerline, edge cracking in various areas.
CENTRAL	Woodland Ave	0.21	3	2	5	\$23,100.00	TBD	Cracking and irregular surfaces associated with utilities and manholes.
CENTRAL	Fairview St	0.11	3	2	5	\$12,100.00	TBD	Cracking, settlement and edge cracking for 50'+.
EAST COLLEGE	Woodhill Dr	0.54	3	2	5	\$59,400.00	TBD	Cracking and irregular surfaces associated with utilities and manholes.
DEHART	Dehart Dr	0.46	3	2	5	\$50,600.00	TBD	block cracking, raveling.
HOMESTEAD ACRES NORTH	Santa Clara Dr	0.16	3	2	5	\$17,600.00	TBD	Fair condition with cracking - would benefit from surface course
HOMESTEAD ACRES NORTH	Chesapeake Cir	0.02	3	2	5	\$2,200.00	TBD	Fair condition with cracking - would benefit from surface course
HOMESTEAD ACRES NORTH	Eagle Spur Trail	0.11	3	2	5	\$12,100.00	TBD	Fair condition with cracking - would benefit from surface course
TWIN LAKES	Belaire Cir	0.05	3	1	4	\$5,500.00	TBD	Minor surface cracking in cul-de-sac.
TWIN LAKES	Hawk Ridge Road	0.16	3	1	4	\$17,600.00	TBD	Surface cracking in greater quantity than other roads in S/D. 1st portion was resurfaced, middle to end not resurfaced.
TWIN LAKES	White Haven Ct	0.01	3	1	4	\$1,100.00	TBD	OK
TWIN LAKES	Parkwild Cir	0.02	3	1	4	\$2,200.00	TBD	Minor surface cracking in cul-de-sac.
TWIN LAKES	Deer Run Cir	0.07	3	1	4	\$7,700.00	TBD	Cracking down centerline & cul-de-sac.
TWIN LAKES	Sycamore Lane	0.03	3	1	4	\$3,300.00	TBD	Minor surface cracking in cul-de-sac.
RAMSGATE	Betsy Crt	0.04	3	1	4	\$4,400.00	TBD	Heavy cracking in center section likely over sewer line installation, surfaces drainage (sheet flow).
MARCUS DRIVE	Avalon Ct	0.02	3	1	4	\$2,200.00	TBD	Subdivision roads in good condition. Occasional surface cracking.
HOMESTEAD ACRES SOUTH	Leanna Ct	0.15	3	1	4	\$16,500.00	TBD	Subdivision roads in good condition. Occasional surface cracking.
HOMESTEAD ACRES SOUTH	Albertville Ln	0.13	3	1	4	\$14,300.00	TBD	Subdivision roads in good condition. Occasional surface cracking.
ANNIES CIRCLE	Silverina Crt	0.08	3	1	4	\$8,800.00	TBD	Subdivision roads in good condition. Occasional surface cracking.
HILLCREST	Maxwell Ave	0.07	3	1	4	\$7,700.00	TBD	Settlement over sanitary sewer, cracking at cul-de-sac. May be a recent re-pave with new problems.
HILLCREST	Crest Brook Cir	0.21	3	1	4	\$23,100.00	TBD	surface cracking, patches, weed intrusion at So. Toney St. intersection,
EAST COLLEGE	Ascot St	0.08	3	1	4	\$8,800.00	TBD	Block cracking, larger surface cracks with weed intrusion in cracks.
DEHART	Willow Creek Ln	0.09	3	1	4	\$9,900.00	TBD	Surface cracking, raveling and settlement.
HOMESTEAD ACRES NORTH	Seminole Dr	0.05	3	1	4	\$5,500.00	TBD	Fair condition with cracking - would benefit from surface course
HOMESTEAD ACRES NORTH	Shawnee Dr	0.13	3	1	4	\$14,300.00	TBD	Fair condition with cracking - would benefit from surface course
HOMESTEAD ACRES NORTH	Sioux Dr	0.03	3	1	4	\$3,300.00	TBD	Fair condition with cracking - would benefit from surface course
HOMESTEAD ACRES NORTH	Comanche Dr	0.17	3	1	4	\$18,700.00	TBD	Fair condition with cracking - would benefit from surface course
HOMESTEAD ACRES NORTH	Santa Fe Trail	0.11	3	1	4	\$12,100.00	TBD	Fair condition with cracking - would benefit from surface course
HOMESTEAD ACRES SOUTH	Lara Lee Ln	0.09	2	2	4	\$9,900.00	TBD	Subdivision roads in good condition. Occasional surface cracking.
HOMESTEAD ACRES SOUTH	Sir Gregory Dr	0.417	2	2	4	\$45,870.00	TBD	Subdivision roads in good condition. Occasional surface cracking.
ANNIES CIRCLE	Annie's Cir / Crt	0.5	2	2	4	\$55,000.00	TBD	Subdivision roads in good condition. Occasional surface cracking.
FLINT HILL CHURCH	Glenn Ave	0.09	2	2	4	\$9,900.00	TBD	good surface course asphalt with longitudinal cracking over sanitary sewer in center.
WEST LAKES	Austin Dr	0.26	2	2	4	\$28,600.00	TBD	Minor perpendicular surface cracking.
WEST LAKES	Aaron Dr	0.29	2	2	4	\$31,900.00	TBD	Minor cracking at end cul-de-sac. (1) surface irregularity at c/l near #104. Good surface drainage
GORDON AVE	Gordon Ave	0.45	2	2	4	\$49,500.00	TBD	Appears to be recently re-surfaced. A few settlement and cracking issues around manholes in centerline areas.
HILLCREST	Wall Ave - East	0.225	2	2	4	\$24,750.00	TBD	Good condition, may be recent re-surfacing.
HILLCREST	Toney St	0.26	2	2	4	\$28,600.00	TBD	Good condition, may be recent re-surfacing.
HILLCREST	South Toney St	0.27	2	2	4	\$29,700.00	TBD	Good condition, slightly less than Toney St.
HILLCREST	North Toney St	0.31	2	2	4	\$34,100.00	TBD	Good condition, slightly less than Toney St.
NORTH MAIN	Bethel Ave	0.2	2	2	4	\$22,000.00	TBD	Cracking, block cracking, surface raveling, patch in centerline over sanitary sewer, irregular surface drainage.
CENTRAL	Cove St	0.06	2	2	4	\$6,600.00	TBD	Good surface condition with drainage issue cracking at catch basin associated with Hamrick Ave.
COLLEGE MANOR	College Manor	0.22	2	2	4	\$24,200.00	TBD	minor cracks, smooth asphalt surface.
CREEKSIDE	Creekside Dr	0.34	2	2	4	\$37,400.00	TBD	Areas inside rate 3 / 4 with cracking, raveling, settle and patches in various areas. Some areas good condition
SOUTH MAIN	Oak Ave	0.44	2	2	4	\$48,400.00	TBD	minor cracking good surface.
FLINT HILL CHURCH	Hillside St	0.23	2	2	4	\$25,300.00	TBD	Good cond. Occasional cracking, one poor area in center of street near Main St. connection.
SOUTHGLENN	Bay Ct	0.03	2	2	4	\$3,300.00	TBD	cracking.
SOUTH GLENN	Asburn Dr	0.1	2	2	4	\$11,000.00	TBD	good cond.
SOUTHGLENN	Southglen Dr	0.19	2	2	4	\$20,900.00	TBD	good cond.
BROOKVIEW	Brookview Dr	0.19	2	2	4	\$20,900.00	TBD	good condition, few cracks and drainage appears
HAWK RIDGE	Keen Dr	0.42	2	2	4	\$46,200.00	TBD	Very good to good condition, slightly rough surface course. Few cracks and occasional edge repair patches.
NORTH MAIN	Green Ave	0.24	2	1	3	\$26,400.00	TBD	Cracking, settlement, utility related settlement and patching.
WEST COLLEGE	Pinecrest St	0.37	2	1	3	\$40,700.00	TBD	Conditions vary, good conditions with minor cracking and areas of patches heavy cracking and settlement.
CREEKSIDE	Hidden Creek Dr	0.16	2	1	3	\$17,600.00	TBD	cracking, occasional poor areas.

GENERAL LOCATION	ROAD NAME	ROAD LENGTH (MI.)	CONDITION RANK	FREQUENCY OF USE	Priority Rank	COST (\$110,000 PER MILE)	RESURFACING YEAR	COMMENTS
CREEKSIDE	Keystone Dr	0.1	2	1	3	\$11,000.00	TBD	cracking, occasional poor areas.
WEST COLLEGE	Spring St	0.22	2	1	3	\$24,200.00	TBD	good condition with occasional cracking. Some areas cracking is wide, asphalt surface is course.
WEST COLLEGE	Cantrell St	0.12	2	1	3	\$13,200.00	TBD	good condition with occasional cracking. Some areas cracking is wide, asphalt surface is course.
PATRICK AVE	Victor Dr	0.32	2	1	3	\$35,200.00	TBD	conditions vary. Cracking and areas with depressions or repair work.
WEST LAKES	Patricia Crt	0.02	2	1	3	\$2,200.00	TBD	Very good no cracking.
WEST LAKES	Michael Crt	0.03	2	1	3	\$3,300.00	TBD	Very good no cracking.
WEST LAKES	Dennis Crt	0.05	2	1	3	\$5,500.00	TBD	Tree root uplift past 1 st drive on left. Cracking at drive 1st on left. Cracking at entry of driveway @ #104.
WEST LAKES	Robert Crt	0.06	2	1	3	\$6,600.00	TBD	OK
DEER RUN	Whitetail Dr	0.22	2	1	3	\$24,200.00	TBD	Fair condition with cracking - would benefit from surface course
DEER RUN	Tallwood Dr	0.06	2	1	3	\$6,600.00	TBD	One poor area at 1st resid. on right. Same surface course comment.
GORDON AVE	Meadowood	0.07	2	1	3	\$7,700.00	TBD	rough asphalt aggregate surface with surface edge cracking in areas.
GORDON AVE	Howington St	0.18	2	1	3	\$19,800.00	TBD	rough asphalt aggregate surface with surface edge cracking in areas.
GORDON AVE	Edgewood St	0.11	2	1	3	\$12,100.00	TBD	rough asphalt aggregate surface with surface edge cracking in areas.
HILLCREST	Dellwood Drive	0.41	2	1	3	\$45,100.00	TBD	Good condition, may be recent re-surfacing.
HILLCREST	Brooks Ave	0.08	2	1	3	\$8,800.00	TBD	Good condition, may be recent re-surfacing.
EAST COLLEGE	Lyman St	0.11	2	1	3	\$12,100.00	TBD	good condition.
NORTH MAIN	Holland Dr	0.2	2	1	3	\$22,000.00	TBD	Settlement and raveling near entrance with cracking and poor drainage
COLLEGE MANOR	W. College Manor	0.04	2	1	3	\$4,400.00	TBD	minor cracks, smooth asphalt surface.
COLLEGE MANOR	E. College Manor	0.03	2	1	3	\$3,300.00	TBD	minor cracks, smooth asphalt surface.
COLLEGE MANOR	N. College Manor	0.05	2	1	3	\$5,500.00	TBD	minor cracks, smooth asphalt surface.
SOUTH MAIN	E. Branch Ave	0.22	2	1	3	\$24,200.00	TBD	occasional cracking, Heavier edge cracking at curb near Main St. good drainage concrete curb and gutter.
SOUTH MAIN	Clinton St	0.11	2	1	3	\$12,100.00	TBD	minor cracking, good surface.
SOUTH MAIN	Pineland Ave	0.45	2	1	3	\$49,500.00	TBD	good cond. Course surface.
SOUTH MAIN	Circle Dr	0.04	2	1	3	\$4,400.00	TBD	good cond. Course surface.
SOUTHGLENN	Southglenn Dr	0.29	2	1	3	\$31,900.00	TBD	good cond.
HAWK RIDGE	Red Tail Ln	0.04	2	1	3	\$4,400.00	TBD	Very good to good condition, slightly rough surface course.
HAWK RIDGE	Feather Way Ln	0.05	2	1	3	\$5,500.00	TBD	Very good to good condition, slightly rough surface course.
WEST COLLEGE	Wellington St	0.07	2		2	\$7,700.00	TBD	minor cracking with rough asphalt surface.
GORDON AVE AREA	Falcon Cir	0.13	2		2	\$14,300.00	TBD	occasional cracking.
MARCUS DRIVE	Marcus Dr	0.41	1	2	3	\$45,100.00	TBD	Subdivision roads in good condition. Occasional surface cracking.
SPRING FOREST	Spring Forest Dr	0.46	1	2	3	\$50,600.00	TBD	Excellent condition, very good drainage.
HIGHLAND PINES	Southern Pine Dr	0.25	1	2	3	\$27,500.00	TBD	Good condition
HIGHLAND PINES	Benjamin Ct	0.17	1	2	3	\$18,700.00	TBD	Good condition
HOMESTEAD ACRES NORTH	Wichita Dr	0.2	1	1	2	\$22,000.00	TBD	Fair condition with cracking - would benefit from surface course
SPRING FOREST	Blakemore Dr	0.21	1	1	2	\$23,100.00	TBD	Excellent condition, very good drainage.
SPRING FOREST	Kendallwood Dr	0.21	1	1	2	\$23,100.00	TBD	Excellent condition, very good drainage.
SPRING FOREST	Carters Grove	0.09	1	1	2	\$9,900.00	TBD	Excellent condition, very good drainage.
HIGHLAND PINES	Highland Pines Dr	0.25	1	1	2	\$27,500.00	TBD	Very good asphalt surface, few cracks mainly in cul-de-sac areas. Very good drainage system conc. Curb and gutter.
HIGHLAND PINES	Blue Spruce Ct	0.07	1	1	2	\$7,700.00	TBD	same.
HIGHLAND PINES	Tall Pine Dr	0.09	1	1	2	\$9,900.00	TBD	same.
WEST COLLEGE	Town Commons	0.08	1		1	\$8,800.00	TBD	very good to good condition, new pavement at Town Hall. Good drainage.
HIGHLAND PINES	Rachel Ct	0.08	1		1	\$8,800.00	TBD	same.
GORDON AVE AREA	Mack Ave	0.06	0	1	1	\$6,600.00	TBD	Street is not constructed. Soil material, no resids.
EAST COLLEGE	Machon Ave	0.06	0	1	1	\$6,600.00	TBD	gravel surface.
SOUTH MAIN	Chestnut St	0.07	0	1	1	\$7,700.00	TBD	gravel driveway.
GORDON AVE AREA	Maple Ave	0.04	0	1	1	\$4,400.00	TBD	gravel driveway.
TOTAL OF ALL PROJECTS						\$2,381,170.00		

	STREET	LAST PAVED (YR)	NOTES
1	Spring Forest Dr	2007	
2	Kendallwood Dr	2007	
3	Carters Grove	2007	
4	Blakemore Dr	2007	
5	College Manor	2007	
6	Creekside Dr	2007	
7	Victor Dr	2010	
8	Ramsgate Dr	2010	slurry
9	Annies Cir / Crt	2010	
10	Maxwell Ave	2010	
11	Dellwood Drive	2010	
12	Toney St	2010	
13	Woodhill Dr	2010	slurry
14	Fox Ridge Rd	2010	slurry
15	Posting Pl.	2010	slurry
16	Bay Ct	2010	
17	Southglenn Dr	2011	
18	Asburn Dr	1011	
19	Southglen Dr	2011	
20	Holland Dr	2011	
21	South Beason St	2012	Beason North unknown
22	Patricia Crt	2012	
23	Austin Dr	2012	
24	Michael Crt	2012	
25	Dennis Crt	2012	
26	Aaron Dr	2012	
27	Robert Crt	2012	
28	Marcus Dr	2012	
29	Avalon Ct	2012	
30	Lindsey Lee Ct	2012	
31	Leanna Ct	2012	
32	Albertville Ln	2012	
33	Lara Lee Ln	2012	
34	Sir Gregory Dr	2012	
35	Highland Pines Dr	2012	
36	Rachel Ct	2012	
37	Southern Pine Dr	2012	
38	Blue Spruce Ct	2012	
39	Tall Pine Dr	2012	
40	Benjamin Ct	2013	
41	Brooks Ave	2013	
42	Bethel Ave	2013	
43	Lyman St	2013	
44	Oak Ave	2013	
45	Clinton St	2014	
46	Lawhon St	2014	

	STREET	LAST PAVED (YR)	NOTES
47	Hillcrest St	2014	
48	Riverchase Dr	2014	patching only
49	Point Crossing	2014	patching only
50	Gordon Ave	2015	
51	Spring St	2015	
52	Wayne Ct	UNK	
53	Poston Cir	UNK	
54	Twin Lake Dr	UNK	
55	Belaire Cir	UNK	
56	Hawk Ridge Road	UNK	
57	White Haven Ct	UNK	
58	Parkwild Cir	UNK	
59	Deer Run Cir	UNK	
60	Sycamore Lane	UNK	
61	Betsy Crt	UNK	
62	Oliver Ave	UNK	
63	Ken Dave's Rd	UNK	
64	Silverina Crt	UNK	
65	Whitetail Dr	UNK	
66	Tallwood Dr	UNK	
67	Seminole Dr	UNK	
68	Shawnee Dr	UNK	
69	Sioux Dr	UNK	
70	Chickasaw Dr	UNK	
71	Santa Clara Dr	UNK	
72	Comanche Dr	UNK	
73	Silver Ck Ln	UNK	
74	Chesapeake Cir	UNK	
75	Santa Fe Trail	UNK	
76	Eagle Spur Trail	UNK	
77	Wichita Dr	UNK	
78	Meadowood	UNK	
79	Howington St	UNK	
80	Edgewood St	UNK	
81	Wall Ave - West	UNK	
82	Wall Ave - East	UNK	
83	South Toney St	UNK	
84	North Toney St	UNK	
85	Crest Brook Cir	UNK	
86	Woodland Ave	UNK	
87	Cove St	UNK	
88	Hamrick Ave	UNK	
89	Fairview St	UNK	
90	Dehart Dr	UNK	
91	Willow Creek Ln	UNK	
92	Mack Ave	UNK	

	STREET	LAST PAVED (YR)	NOTES
93	Green Ave	UNK	
94	Wellington St	UNK	
95	W. College Manor	UNK	
96	E. College Manor	UNK	
97	N. College Manor	UNK	
98	Pinecrest St	UNK	
99	Hidden Creek Dr	UNK	
100	Keystone Dr	UNK	
101	Cantrell St	UNK	
102	Town Commons	UNK	
103	Falcon Cir	UNK	
104	E. Branch Ave	UNK	
105	Machon Ave	UNK	
106	Chestnut St	UNK	
107	Maple Ave	UNK	
108	Glenn Ave	UNK	
109	Pineland Ave	UNK	
110	Circle Dr	UNK	
111	Hillside St	UNK	
112	Brookview Dr	UNK	
113	Keen Dr	UNK	
114	Red Tail Ln	UNK	
115	Feather Way Ln	UNK	