

PERKASIE BOROUGH

2021 ROADWAY CONDITION SURVEY UPDATE

AND

5 TO 15 YEAR RECONSTRUCTION PLAN

Prepared for:

PERKASIE BOROUGH
620 West Chestnut Street, P.O. Box 96
Perkasie, PA 18944-0096

Project No. #23-01093

Prepared by Gilmore & Associates, Inc., Borough Engineers: Dated September 6, 2023

Roadway Condition Map (Appendix D)

Prepared by Gilmore & Associates, Inc., Borough Engineers: Dated September 6, 2023

Draft Plan Approved by Perkasie Borough Manager: _____

DATE

Plan Approved by Perkasie Borough Council: _____

DATE

**PERKASIE BOROUGH
2021 ROADWAY CONDITION SURVEY UPDATE**

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(Full Scale and Reduced Scale)

I. PURPOSE

The intent of the 2021 Roadway Condition Survey Update is to provide the Borough of Perkasié with a current assessment of the existing roadway conditions and to provide recommendations for future roadway repair projects. This document can be used as a guide to help the Borough effectively and efficiently allocate available funding, such as Liquid Fuels Funds, for both current and future roadway repairs. Gilmore & Associates, Inc. (G&A) has prepared this report to assist the Borough with prioritizing annual roadway repairs by maximizing available funding while improving the overall condition and safety of their local roadways for its residents and the general public.

Appendix C of this report includes a recommended 5 to 15 Year Roadway Reconstruction Plan intended to provide the Borough with the opportunity to coordinate future public improvement projects, such as the annual Road Program, Concrete Program, stormwater improvements, etc., as well as, other future projects scheduled by Residents, Developers, PennDOT, and/or local utility service providers. However, it is important to note that the actual roadway repairs completed each year may deviate from the recommended 5 to 15 Year Roadway Reconstruction Plan due to budgetary constraints and unforeseen circumstances. Utilizing a Roadway Reconstruction Plan will ultimately help the Borough better preserve their infrastructure investment.

Please note that this report is a comprehensive document that requires regular updates to the roadway condition ratings and estimated unit costs. Due to the variety of weather conditions experienced in this region, we recommend that the Borough continue to conduct field surveys to visually inspect the entire Borough maintained roadway system at a minimum of every two (2) years following the completion of the annual Road Program.

II. PAVEMENT CONDITION RATINGS AND ROADWAY SURVEY METHODOLOGY

The pavement condition rating methodology utilized to assess the condition of the Borough's roadways is based on the American Association of State Highway and Transportation Officials (AASHTO) *Guide for Design of Pavement Structures*. The guide defines the design life stages of a bituminous roadway using condition ratings from 1 through 5. Figure No. 1 shown on the following page helps to illustrate each roadway condition rating. The figure demonstrates that a roadway typically deteriorates linearly over time until a certain point. Once the roadway reaches this point, the rate of deterioration accelerates exponentially. The rate of deterioration of a roadway is based on a combination of factors including but not limited to the structural integrity of the roadway, traffic volume loading and climate changes (i.e. freeze/thaw).

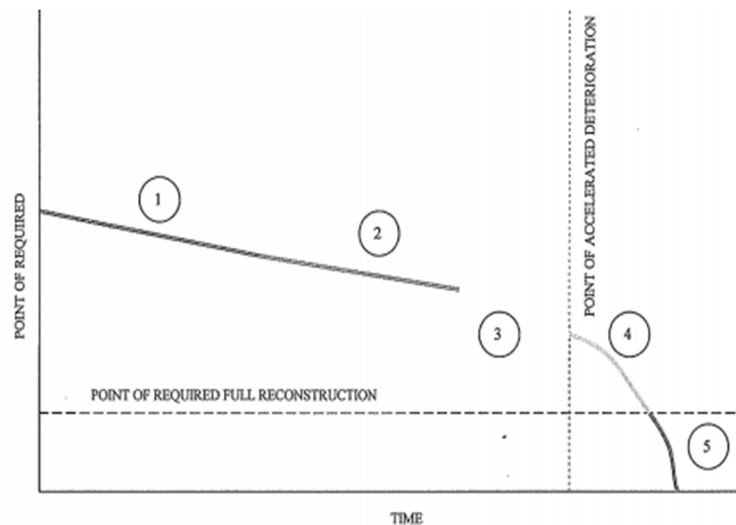


Figure No. 1

As shown in Figure No. 1, Conditions 1 and 2 roadways are considered to be in fairly good condition or recently paved; Condition 3 is the stage where the roadway surface begins the process of deterioration; Condition 4 is the stage where accelerated deterioration of the roadway begins; and Condition 5 is the stage where the roadway typically requires full reconstruction. Please note that in preparation of this survey, Conditions 3 and 4 have been divided into sub-ratings (3, 3.5, 4 and 4.5) to better assess the condition of the roadway and define the rate of deterioration. Detailed descriptions and photographic examples of each roadway condition rating have been provided in Appendix A of this report.

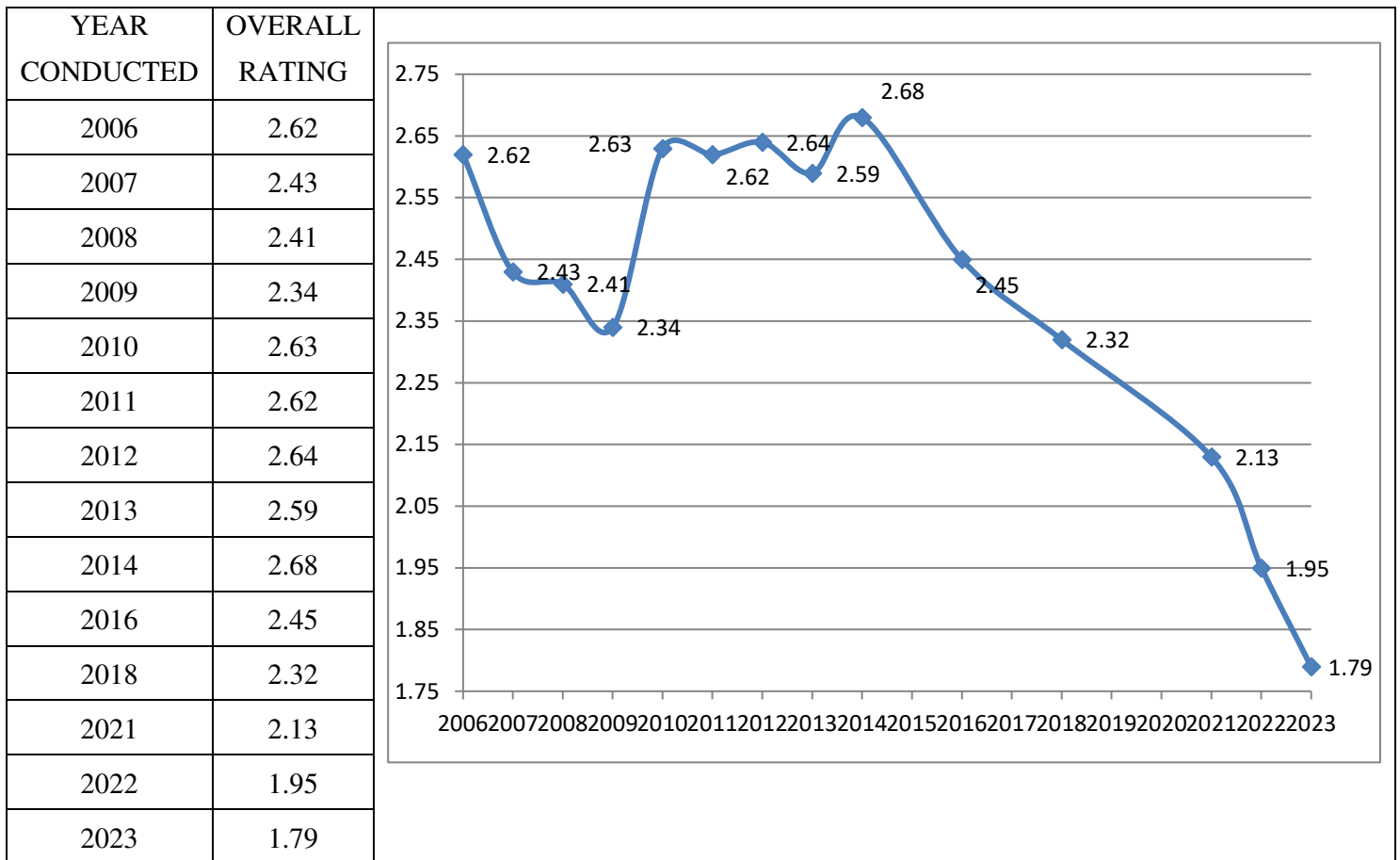
The 2021 Roadway Condition Survey Update has been prepared using data collected during a field survey and inspection performed by Gilmore & Associates, Inc. and the Public Works Director on August 31, 2021. During the field survey, every road within the Borough limits was visually inspected and assigned a numeric rating between 1 and 5 based on the *AASHTO Guide for Design of Pavement Structures* described above. A summary of the 2021 Roadway Condition Ratings can be found in Appendix B of this report, which has been updated to note the condition of the roadways completed in 2022 and 2023 as Condition 1.

III. OVERALL ROADWAY CONDITION RATING

The Overall Roadway Condition Rating is a calculated numerical value based on the pavement conditions and length of each individual roadway within the Borough. This rating is used to compare the current conditions of the roadways to the conditions of previous years. The overall condition rating can be a useful tool to determine how a combination of factors such as weather or construction projects can impact the degradation of the roadways. The goal is to achieve and maintain the lowest possible overall condition rating; by doing so, the Borough will ultimately spend less money to maintain their roadways. Funds can be allocated to lower cost maintenance and repairs, such as crack sealing or mill and overlay, as opposed to the more costly maintenance, such as base repair and complete reconstruction.

The updated 2021 Roadway Condition Survey indicates that the Borough’s roadways achieved an overall condition rating of 1.79 in 2023, which represents the best overall condition rating observed in the past 17 years. The considerable improvement of the overall condition rating is a result of the Borough’s proactive approach to recent road programs combined with the milder winter weather and temperatures observed over the last 9 years. By utilizing an aggressive financial schedule and a strategic approach to prioritize the repair of roadways assigned a Condition Rating of 4, 4.5 or 5 during the 2014 through 2023 Road Programs, the Borough has reversed the deterioration trend and substantially improved the overall roadway condition rating.

**PERKASIE BOROUGH
ANNUAL OVERALL ROADWAY CONDITION RATING SUMMARY**

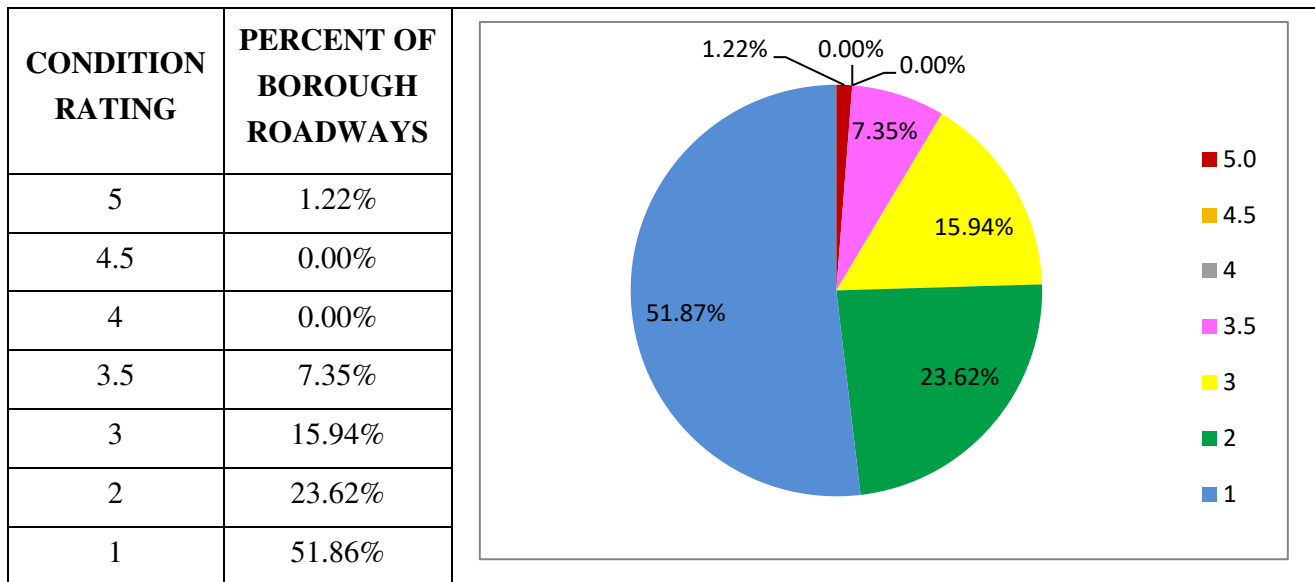


The summary of the Borough’s Overall Roadway Condition Ratings provided above was prepared based on the field surveys conducted from 2006 to 2021 and roadways completed in 2022 and 2023. The ratings were summarized using field survey date conducted by Gilmore & Associates, Inc., as well as, utilizing previous editions of this report, as prepared by Boucher & James, Inc. and CKS Engineers, Inc. Please note that based on the results of the annual ratings reported, the Borough requested in 2014 that the Roadway Condition Survey report only be updated once every two years. However, due to mild winter seasons, two years have passed since the previous report.

IV. FINDINGS

Based on the results of the 2021 Roadway Condition Survey Update, the 2021 Roadway Condition Rating Summary graphic provided below demonstrates that more than half of the Borough owned roadways have been assigned a Condition Rating of 1 and approximately 91.5% of the roadways have been classified as a Condition 3 Rating or better. Please note that the color for each percentage in the chart below matches the colors assigned to each roadway condition rating on the Roadway Condition Map provided in Appendix D.

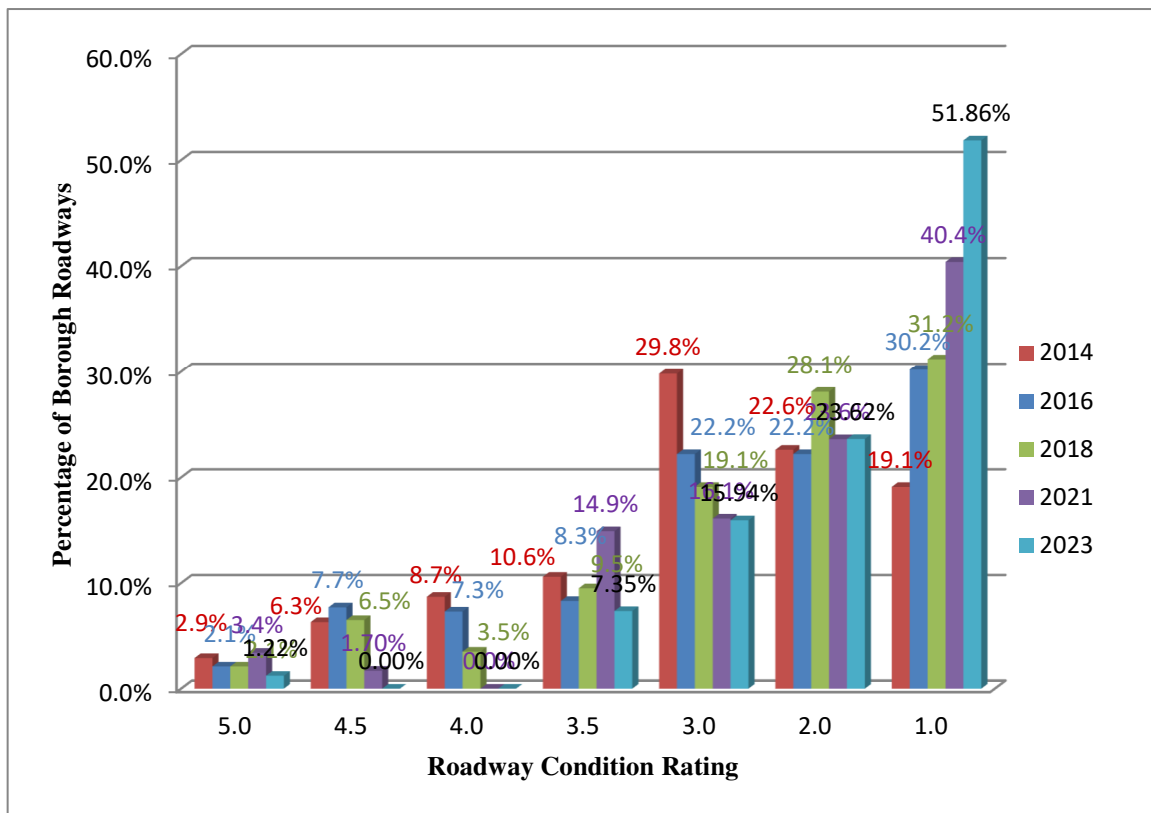
PERKASIE BOROUGH 2021 ROADWAY CONDITION RATING SUMMARY UPDATE



The Year 2014 vs. Year 2016 vs. Year 2018 vs. Year 2021 vs. Year 2023 Condition Rating Comparison table on the following page demonstrates considerable changes in the percentages of roadways rated as Conditions 1, 3, 4, 4.5, and 5. The shift in the roadway condition rating percentages can be attributed to the Borough’s proactive approach to include roadways of varying condition ratings into their annual road program. By annually completing the maintenance and repair of roadways with varying condition ratings, the Borough will ultimately spend less money to maintain their roadway infrastructure. For example, focusing solely on repairing the Condition 5 roadways will limit the number of roadways that can be completed in any given year. In addition, repairing only the Condition 5 roadways will result in the further deterioration of the Condition 3 to 4.5 roadways and negatively impact the Borough’s Overall Roadway Condition Rating.

Based on historical observation data, a roadway rated as Condition 3.5 can rapidly deteriorate to a Condition 4, 4.5 or 5 within a year depending on the volume of traffic experienced by the roadway and weather conditions. Therefore, the overall improvement of the individual roadway condition ratings in the year 2023 does not discount the continued need for future improvements to the Condition 3.5 to Condition 5 rated roadways which account for approximately 8.5% of the Borough owned roadways.

**PERKASIE BOROUGH
YEAR 2014, 2016, 2018, 2021, AND 2023 CONDITION RATING COMPARISON**



The 5 to 15 Year Roadway Reconstruction Plan provided in Appendix C recommends both short-term and long term schedule of roadway repairs which are intended to improve the Borough’s Overall Roadway Condition Rating. Even though approximately 91.5 percent of the Borough owned roadways are rated as a Condition 3 or better, the 5 Year Roadway Reconstruction Plan still recommends an aggressive yet strategic roadway selection for future road programs. The recommended goal is to repair Condition 3.5 through Condition 5 rated roadways while still incorporating maintenance and repair of Condition 3 rated roadways in localized areas of the Borough.

Please note that the 2021 Roadway Condition Rating Update and 5 to 15 Year Roadway Reconstruction Plan Update provided in Appendix B and C respectively, also include an estimated cost of repair based on the square yard and condition rating of each individual roadway. The estimated costs have been prepared by comparing the unit costs received by the Borough from previous Road Program bids, as well as recent unit costs received by local municipalities.

V. CONCLUSIONS AND RECOMMENDATIONS

The results of the 2021 Roadway Condition Survey Update indicate an improvement in the Borough's Overall Roadway Condition Rating, as well as an increase in the percent of roadways rated as Condition 1.

As indicated in the 5 to 15 Year Roadway Reconstruction Plan Update in Appendix C, we recommend a combination of Condition 3, 3.5 and 5 rated roadways be the primary selection for the 2024 through 2028 Road Programs in order to continue improving the Borough's overall roadway condition rating.

Overall, we recommend that the Borough continue to implement an aggressive schedule of Condition 3.5 and 5 rated roadways for future road repair projects dependent on the amount of available funding. Based on the recommended 5 to 15 Year Roadway Reconstruction Plan Update provided in Appendix C, all of the roadways currently rated as Condition 5 will be repaired by the year 2026. This strategy will allow the Borough to mitigate the roadways currently rated as Condition 5 while also proactively preventing the Condition 3.5 rated roadways from deteriorating to a Condition 5 Rating status.



Please note that this report is a comprehensive document that requires updates and modifications to the condition ratings and estimated unit costs. Due to the variety of weather conditions experienced throughout the year in this region, we recommend that the Borough continue to conduct a field survey and visual inspection of all of the Borough's roadways at a minimum of every two (2) years during the summer months. We further recommend that an updated report be provided to Borough Council in the fall in order to incorporate the recommended roadway repair projects into the budget for the upcoming year. Once the Borough determines the scope and budget of the annual Road Program, the residents will have to be notified if there are any required curb and/or sidewalk improvements associated with the upcoming roadway repairs.

Please be aware that the intent of the 2021 Roadway Condition Survey Update is to provide the Borough with an understanding of the existing conditions of their roadways and a recommendation for future projects. This report should be used as a guide to help the Borough set their roadway repair goals and to determine the most effective and efficient allocation of available funding. It is also important to note that the actual roadway repairs completed each year may deviate from the recommended 5 to 15 Year Roadway Reconstruction Plan Update due to budgetary constraints and unforeseen circumstances.

APPENDIX A

ROADWAY CONDITION RATING DESCRIPTIONS AND EXAMPLES

ROADWAY CONDITION RATINGS DESCRIPTIONS AND EXAMPLES

Rating	Description	Example
<u>CONDITION 1</u> NEWLY PAVED ROADWAY	<p>Condition 1 roadways appear to be or have been recently paved. They have no noticeable cracking, rutting, spalling or potholes and do not require any short-term attention from the Borough.</p> <p>The estimated cost associated with the repair of a Condition 1 roadway is \$0.00 per square yard as shown in the Roadway Condition Rating and the recommended 5 to 15 Year Roadway Reconstruction Plan provided in Appendix B and C.</p> <p>Based on the total linear feet of Borough roadways, approximately 51.86% of the roadways have been rated as Condition 1.</p>	
<u>CONDITION 2</u> MINOR SURFACE WEAR	<p>Condition 2 roadways appear to be in generally good condition and may require short-term actions. The roadway base is typically intact and the surface has minimal rutting or linear cracking; there should be no signs of spalling. Crack sealing can be used as preventative maintenance and isolated repairs, such as minor pot holes, may be necessary.</p> <p>The estimated cost associated with the repair of a Condition 2 roadway is \$7.75 per square yard as shown in the Roadway Condition Rating and the recommended 5 to 15 Year Roadway Reconstruction Plan provided in Appendix B and C.</p> <p>Based on the total linear feet of Borough roadways, approximately 23.62% of the roadways have been rated as Condition 2.</p>	

ROADWAY CONDITION RATINGS DESCRIPTIONS AND EXAMPLES

CONDITION 3 AND 3.5 MAJOR SURFACE WEAR

Condition 3 or 3.5 roadways appear to be deteriorating on the surface and potentially other pavement layers and require action to prevent further degradation. The roadway base and subbase are typically intact and in an acceptable condition. The roadway surface and potentially other pavement layers may have areas of rutting, linear surface cracking and minimal isolated potholes and areas of potential spalling. Note that the roadways in the pictures to the right have numerous linear surface cracks that were previously sealed; however additional cracks continue to form. No alligator cracking has developed on either roadway which suggests that the roadway has an adequate base and subbase structure.

Repairs for a Condition 3 or 3.5 roadway include resurfacing (i.e. mill and overlay) and the completion of isolated pavement repair caused by potholes or localized spalling. If addressed in a timely and effective manner, these repairs can help prevent a Condition 3 or 3.5 roadway from deteriorating to a Condition 4 or Condition 5 rating, which may require a significant amount of pavement and base repair or possibly complete roadway reconstruction.

The estimated cost associated with the repair of a Condition 3 roadway is \$20.00 per square yard and \$21.50 per square yard for a condition 3.5 roadway as shown in the Roadway Condition Rating and the recommended 5 to 15 Year Roadway Reconstruction Plan provided in Appendix B and C.

Based on the total linear feet of Borough roadways, approximately 15.94% of the roadways have been rated as Condition 3 and 7.35% have been rated as Condition 3.5.



ROADWAY CONDITION RATINGS DESCRIPTIONS AND EXAMPLES

CONDITION 4 AND 4.5 MINOR BASE REPAIR

Condition Number 4 or 4.5 roadways appear to have almost completely deteriorated at the surface and consists of damage that extends into the subbase which requires action to prevent the need for full reconstruction. The roadway surface, other pavement layers have numerous areas of severe rutting, linear surface cracking, alligator cracking, major areas of spall, several potholes and areas of exposed pavement base. Note that the roadways in the pictures to the right have numerous areas of linear surface cracking, spalling and exposed subbase.

Repairs for a Condition 4 or 4.5 roadway include resurfacing (i.e. mill and overlay) along with a significant amount of both pavement and base repairs. It is important to note that a Condition 4.5 rating represents a roadway or area of a roadway that has been deemed most critical for attention to prevent reaching a Condition 5 rating. If addressed in a timely and effective manner, these repairs can prevent a Condition 4 or 4.5 roadway from deteriorating to a Condition 5 rating, which may require complete roadway reconstruction.

The estimated cost associated with the repair of a Condition 4 roadway is \$30.85 per square yard and \$31.50 per square yard for a condition 4.5 roadway as shown in the Roadway Condition Rating and the recommended 5 to 15 Year Roadway Reconstruction Plan provided in Appendix B and C.

Based on the total linear feet of Borough roadways, approximately 0.0% of the roadways have been rated as Condition 4 and 0.0% have been rated as Condition 4.5.



ROADWAY CONDITION RATINGS DESCRIPTIONS AND EXAMPLES

CONDITION 5 MAJOR BASE REPAIR

Condition 5 roadways appear to have areas of severe rutting, alligator cracking, major areas spalling, and numerous potholes or other areas of exposed pavement base. These types of conditions indicate that the damage to the roadway surface course extends through the subbase. Note that the roadways in the pictures to the right have severe alligator cracking and a significant amount of exposed base course and subbase.

Repairs for a Condition 5 roadway include resurfacing (i.e. mill and overlay) along with an extensive amount of both pavement and base repairs along the entire roadway. A road categorized as Condition Number 5 requires attention from the Borough as soon as funds are available.

The estimated cost associated with the repair of a Condition 5 roadway is \$42.80 per square yard as shown in the Roadway Condition Rating and the recommended 5 to 15 Year Roadway Reconstruction Plan provided in Appendix B and C.

Based on the total linear feet of Borough roadways, approximately 1.22% of the roadways have been rated as Condition 5.



APPENDIX B

2021 ROADWAY CONDITION RATING UPDATE

2021 ROADWAY CONDITION RATING UPDATE

Street Name	Section of Roadway	Condition Rating	Volume Rating	Total Rating	Length of Road	Width of Road	Area of Road	Cost per SY	Cost to Repair
Condition '5' Rated Roadways									
8th Street	124 8th St to Race St	5	4	20	345	26	997	\$ 42.80	\$ 42,671.60
Park Avenue*	Ridge Road to Country Ridge	5	5	25	1,470	24	3,970	\$ 42.80	\$ 169,916.00
								Estimated Cost: \$	212,587.60
								Estimated Percentage:	1.22%
Condition '3.5' Rated Roadways									
2nd Street	Walnut St to Market St	3.5	4	14	1,650	32	5,917	\$ 21.50	\$ 127,215.50
3rd Street	Walnut St to Market St	3.5	3	10.5	1,380	32	4,957	\$ 21.50	\$ 106,575.50
Amherst Circle	entire road	3.5	1	3.5	500	26	1,494	\$ 21.50	\$ 32,121.00
Chelsea Court	entire road	3.5	1	3.5	275	24	945	\$ 21.50	\$ 20,315.11
Coventry Way	entire road	3.5	2	7	945	34	3,620	\$ 21.50	\$ 77,830.00
Dorchester Lane	entire road	3.5	2	7	2,700	34	10,250	\$ 21.50	\$ 220,375.00
Hampton Circle	entire road	3.5	2	7	1,210	26	3,546	\$ 21.50	\$ 76,239.00
Penn Alley	entire road	3.5	2	7	460	18	970	\$ 21.50	\$ 20,855.00
Pine Street	8th St to 9th St	3.5	3	10.5	330	26	1,003	\$ 21.50	\$ 21,564.50
S. 8th Street	Pine St to Park Ave	3.5	1	3.5	400	25	1,161	\$ 21.50	\$ 24,961.50
Waltham Lane	entire road	3.5	2	7	1,045	25	2,953	\$ 21.50	\$ 63,489.50
								Estimated Cost: \$	791,541.61
								Estimated Percentage:	7.35%

*Estimated cost of repair includes only cost of roadway repair and not required storm sewer improvements.

2021 ROADWAY CONDITION RATING UPDATE

Street Name	Section of Roadway	Condition Rating	Volume Rating	Total Rating	Length of Road	Width of Road	Area of Road	Cost per SY	Cost to Repair
Condition '3' Rated Roadways									
3rd Street	Park Ave to Walnut St	3	3	9	860	32	3,108	\$ 20.00	\$ 62,160.00
7th Street	Market St to Callowhill St.	3	3	9	1,741	32	6,240	\$ 20.00	\$ 124,800.00
Blooming Glen Drive	5th St to 7th St	3	5	15	1,590	32	5,703	\$ 20.00	\$ 114,060.00
Blooming Glen Drive	7th St to Ridge Rd	3	5	15	1,337	19	2,873	\$ 20.00	\$ 57,460.00
Bramble Lane	entire road	3	1	3	500	24	1,383	\$ 20.00	\$ 27,660.00
Branford Terrace	entire road	3	1	3	760	24	2,077	\$ 20.00	\$ 41,540.00
Country Pointe Circle	entire road	3	1	3	675	32	2,856	\$ 20.00	\$ 57,113.33
Essex Court	Branford Ter to Main St	3	2	6	1,885	32	6,752	\$ 20.00	\$ 135,040.00
Kent Lane	entire road	3	1	3	1,330	35	5,222	\$ 20.00	\$ 104,440.00
Milliken Court	entire road within Borough	3	1	3	460	33	3,769	\$ 20.00	\$ 75,373.33
Neighbors Way	entire road	3	1	3	1,020	32	4,186	\$ 20.00	\$ 83,711.11
Penny Lane	entire road	3	2	6	2,625	34	9,967	\$ 20.00	\$ 199,340.00
Race Street	3rd St to 5th St(Incl. "tail" at 3rd)	3	3	9	875	32	3,161	\$ 20.00	\$ 63,220.00
S. 6th Street	Chestnut St to Walnut St	3	3	9	350	32	1,294	\$ 20.00	\$ 25,880.00
Souder Lane	entire road	3	1	3	315	32	1,537	\$ 20.00	\$ 30,737.78
Stonycrest Drive	entire road within Borough	3	2	6	1,480	32	5,312	\$ 20.00	\$ 106,240.00
Strassburger Road	entire road	3	2	6	2,760	33	10,170	\$ 20.00	\$ 203,400.00
Strawberry Lane	entire road	3	2	6	875	33	4,082	\$ 20.00	\$ 81,633.33
W. Walnut Street	Constitution Ave to 5th St	3	4	12	1,800	32	6,450	\$ 20.00	\$ 129,000.00
Walker Way	entire road	3	2	6	390	34	1,523	\$ 20.00	\$ 30,460.00
Estimated Cost:									\$ 1,753,268.88
Estimated Percentage:									15.94%

*Estimated cost of repair includes only cost of roadway repair and not required storm sewer improvements.

2021 ROADWAY CONDITION RATING UPDATE

Street Name	Section of Roadway	Condition Rating	Volume Rating	Total Rating	Length of Road	Width of Road	Area of Road	Cost per SY	Cost to Repair
Condition '2' Rated Roadways									
5th Street	Market St to Borough Line	2	5	10	3,890	32	13,881	\$ 7.75	\$ 107,577.75
7th Street	1108 7th St to Blooming Glen Dr	2	3	6	700	32	2,539	\$ 7.75	\$ 19,677.25
7th Street	Park Ave to Market St	2	3	6	2,165	32	7,748	\$ 7.75	\$ 60,047.00
9th Street	Railroad to Borough Line	2	3	6	5,590	38	23,652	\$ 7.75	\$ 183,303.00
10th Street	10th St cul-de-sac	2	1	2	220	18	490	\$ 7.75	\$ 3,797.50
12th Street	Borough Line to Cul-de-Sac	2	1	2	1,110	32	3,997	\$ 7.75	\$ 30,976.75
Arch Street	3rd St to 7th St	2	2	4	1,620	32	5,810	\$ 7.75	\$ 45,027.50
Arch Street	9th St to end (past 10th)	2	2	4	565	30	1,933	\$ 7.75	\$ 14,980.75
E. Spruce Street	S. Main St to Constitution Ave	2	4	8	2,660	34	10,099	\$ 7.75	\$ 78,267.25
Highland Court	entire road	2	1	2	200	28	1,138	\$ 7.75	\$ 8,822.94
Highwood Court	entire road	2	1	2	330	28	1,191	\$ 7.75	\$ 9,231.97
Hillcrest Road	entire road within Borough	2	3	6	630	18	1,310	\$ 7.75	\$ 10,152.50
N. 6th Street	Market St to Buttonwood St	2	3	6	2,200	26	6,406	\$ 7.75	\$ 49,646.50
Park Avenue	Railroad to 3rd St	2	5	10	1,390	32	4,992	\$ 7.75	\$ 38,688.00
Parkridge Court	entire road	2	1	2	225	26	1,148	\$ 7.75	\$ 8,895.28
Parkridge Drive	entire road	2	2	4	2,885	25	8,064	\$ 7.75	\$ 62,496.00
Poplar Street	entire road	2	1	2	180	10	250	\$ 7.75	\$ 1,937.50
S. Main Street	Spruce St to Borough Line	2	5	10	4,275	33	15,725	\$ 7.75	\$ 121,868.75
S. Main Street	Walnut St to Spruce St	2	5	10	650	32	2,361	\$ 7.75	\$ 18,297.75
Vine Street	9th St to Ridge Ave	2	2	4	651	24	1,735	\$ 7.75	\$ 13,446.25
W. Chestnut Street	2nd St to 5th St	2	2	4	1,020	32	3,677	\$ 7.75	\$ 28,496.75
W. Chestnut Street	8th St to 9th St	2	3	6	385	32	1,419	\$ 7.75	\$ 10,997.25
W. Market Street	2nd St to 6th St	2	5	10	1,475	32	5,294	\$ 7.75	\$ 41,028.50
								Estimated Cost:	\$ 967,660.69
								Estimated Percentage:	23.62%

*Estimated cost of repair includes only cost of roadway repair and not required storm sewer improvements.

2021 ROADWAY CONDITION RATING UPDATE

Street Name	Section of Roadway	Condition Rating	Volume Rating	Total Rating	Length of Road	Width of Road	Area of Road	Cost per SY	Cost to Repair
Condition '1' Rated Roadways									
2nd Street	Market St to Arch St	1	4	4	380	16	726	\$0.00	\$ -
3rd Street	Market St to Race St	1	3	3	690	32	2,465	\$0.00	\$ -
3rd Street	Race St to Callowhill St	1	3	3	1,130	31	3,942	\$0.00	\$ -
4th Street	Borough Line to Arthur Ave	1	3	3	1,270	32	4,566	\$0.00	\$ -
4th Street	Park Ave to Walnut St	1	3	3	1,000	32	3,606	\$0.00	\$ -
4th Street	Walnut St to Market St	1	3	3	1,220	32	4,388	\$0.00	\$ -
4th Street	Market St to Vine St	1	3	3	750	32	2,675	\$0.00	\$ -
7th Street	901 7th St to 1025 7th St	1	3	3	1,238	32	4,400	\$0.00	\$ -
7th Street	1025 7th St to 1108 7th St	1	3	3	720	32	2,560	\$0.00	\$ -
7th Street	Callowhill St. to 901 7th St	1	3	3	1,930	32	6,862	\$0.00	\$ -
8th Street	Buttonwood St to Callowhill St	1	2	2	325	27	1,025	\$0.00	\$ -
8th Street	Chestnut St to Market St	1	5	5	495	32	1,810	\$0.00	\$ -
8th Street	Market St to 124 8th St	1	4	4	645	32	2,293	\$0.00	\$ -
8th Street/Vine Street	Callowhill St./7th St	1	4	4	675	31	2,375	\$0.00	\$ -
10th Street	Race St to Vine St	1	1	1	407	20	905	\$0.00	\$ -
12th Street	Stub from Park Ave	1	1	1	325	14	556	\$0.00	\$ -
Arch Street	8th St to 9th St	1	2	2	221	26	688	\$0.00	\$ -
Arthur Avenue	entire road	1	3	3	765	38	3,280	\$0.00	\$ -
Bridge Street	entire road	1	4	4	310	24	877	\$0.00	\$ -
Buttonwood Street	7th St to 5th St	1	2	2	1,225	32	4,406	\$0.00	\$ -
Buttonwood Street	7th St to 8th St	1	2	2	250	18	550	\$0.00	\$ -
Callowhill Street	5th St to 6th St, portion	1	5	5	250	32	939	\$0.00	\$ -
Callowhill Street	Ridge Rd to beyond 6th St	1	5	5	2,585	30	8,667	\$0.00	\$ -
Cedar Avenue	4th St to 5th St	1	1	1	355	18	760	\$0.00	\$ -
Chestnut Court	entire road	1	1	1	775	29	2,497	\$0.00	\$ -
Clover Lane	entire road	1	1	1	1,370	24	3,703	\$0.00	\$ -
Concord Place	entire road	1	1	1	260	28	1,366	\$0.00	\$ -
Connor Lane	entire road	1	1	1	803	34	3,034	\$0.00	\$ -
Daniella Circle	entire road	1	1	1	354	34	1,760	\$0.00	\$ -
Dill Avenue	entire road	1	1	1	1,323	30	4,410	\$0.00	\$ -
E. Chestnut Street	entire road	1	2	2	325	30	1,133	\$0.00	\$ -
E. Market Street	entire road	1	1	1	1,370	32	4,921	\$0.00	\$ -
E. Spruce Street	S. Main St to cul-de-sac	1	2	2	844	32	3,000	\$0.00	\$ -
Elm Avenue	4th St to 5th St	1	1	1	381	26	1,100	\$0.00	\$ -
Elm Avenue	5th St to 6th St	1	1	1	345	26	1,047	\$0.00	\$ -

*Estimated cost of repair includes only cost of roadway repair and not required storm sewer improvements.

2021 ROADWAY CONDITION RATING UPDATE

Street Name	Section of Roadway	Condition Rating	Volume Rating	Total Rating	Length of Road	Width of Road	Area of Road	Cost per SY	Cost to Repair
Condition '1' Rated Roadways Continued									
Essex Court	Branford Ter to cul-de-sac	1	2	2	565	26	1,045	\$0.00	\$ -
Fairview Avenue	entire road	1	1	1	1,455	22	3,557	\$0.00	\$ -
Fern Drive	entire road	1	1	1	520	26	1,552	\$0.00	\$ -
Grandview Avenue	entire road	1	1	1	1,543	32	5,485	\$0.00	\$ -
Hickory Drive	entire road	1	1	1	592	32	2,713	\$0.00	\$ -
Hidden Meadow Drive	entire road	1	1	1	1,145	34	4,326	\$0.00	\$ -
Highland Drive	entire road	1	2	2	1,900	34	7,228	\$0.00	\$ -
Hunters Run Road	entire road	1	2	2	1,610	26	4,701	\$0.00	\$ -
Hyde Lane	entire road	1	1	1	745	32	2,699	\$0.00	\$ -
Jefferson Drive	entire road	1	2	2	1,555	28	4,888	\$0.00	\$ -
Juliana Way	entire road	1	1	1	978	34	3,745	\$0.00	\$ -
Lexington Way	entire road	1	1	1	440	30	1,868	\$0.00	\$ -
Lombard Street	entire road	1	2	2	1,030	26	3,481	\$0.00	\$ -
Market Street Alley	entire road	1	3	3	455	16	859	\$0.00	\$ -
Marshall Street	Buttonwood St to Callowhill St	1	1	1	310	22	808	\$0.00	\$ -
Marshall Street	Race St to Callowhill St	1	2	2	580	23	1,482	\$0.00	\$ -
Meadow Lane	entire road within Borough	1	2	2	425	35	1,703	\$0.00	\$ -
Nob Hill Drive	entire road	1	2	2	1,185	32	4,534	\$0.00	\$ -
North Lane	entire road	1	2	2	315	26	960	\$0.00	\$ -
Oak Avenue	entire road	1	2	2	335	22	869	\$0.00	\$ -
Old Post Court	entire road	1	1	1	215	82	1,223	\$0.00	\$ -
Old Post Road	entire road	1	2	2	1,572	32	5,590	\$0.00	\$ -
Park Avenue	Country Ridge to the railroad	1	5	5	776	32	2,760	\$0.00	\$ -
Park Avenue	Country Ridge Portion	1	5	5	638	32	2,268	\$0.00	\$ -
Pine Street	9th St to Country Ridge	1	3	3	100	26	339	\$0.00	\$ -
Pleasant Run Place	entire road	1	1	1	662	28	2,060	\$0.00	\$ -
Race Street	5th St to 6th St	1	3	3	515	32	1,831	\$0.00	\$ -
Race Street	6th St to 7th St	1	3	3	485	32	1,774	\$0.00	\$ -
Race Street	8th St to 9th St	1	3	3	220	32	782	\$0.00	\$ -
Race Street	Ridge Ave to 9th St	1	3	3	728	30	2,425	\$0.00	\$ -
Revere Way	entire road	1	1	1	375	30	1,744	\$0.00	\$ -
Ridge Avenue	entire road	1	4	4	1,770	28	5,507	\$0.00	\$ -
Rustic Drive	entire road	1	2	2	1,120	30	3,783	\$0.00	\$ -
S. 6th Street	Market St to Chestnut St	1	3	3	340	32	1,209	\$0.00	\$ -
S. 6th Street	Spruce St to Elm Ave	1	3	3	1,250	28	3,889	\$0.00	\$ -

*Estimated cost of repair includes only cost of roadway repair and not required storm sewer improvements.

2021 ROADWAY CONDITION RATING UPDATE

Street Name	Section of Roadway	Condition Rating	Volume Rating	Total Rating	Length of Road	Width of Road	Area of Road	Cost per SY	Cost to Repair
Condition '1' Rated Roadways Continued									
Shadywood Drive	5th St to Shadywood Pl	1	2	2	3,600	30	12,050	\$0.00	\$ -
Shadywood Drive	Shadywood Pl to Highland Dr.	1	2	2	3,600	30	12,000	\$0.00	\$ -
Shadywood Place	entire road	1	2	2	325	30	1,083	\$0.00	\$ -
Spring Court	entire road	1	1	1	440	26	1,756	\$0.00	\$ -
Spring Lane	entire road	1	1	1	1,515	26	4,427	\$0.00	\$ -
Sugarbush Drive	entire road	1	1	1	373	36	1,542	\$0.00	\$ -
Summit Avenue	entire road	1	1	1	1,145	18	2,340	\$0.00	\$ -
Tunnel Road	entire road excl. PennDOT portion	1	2	2	100	25	278	\$0.00	\$ -
Union Street	entire road	1	1	1	820	34	3,913	\$0.00	\$ -
Vine Street	3rd St to 6th St	1	3	3	1,250	32	4,444	\$0.00	\$ -
Virginia Avenue	entire road	1	1	1	1,356	32	4,820	\$0.00	\$ -
W. Chestnut Street	7th St to 5th St	1	2	2	815	32	2,948	\$0.00	\$ -
W. Market Street	6th St to the railroad	1	5	5	775	32	2,806	\$0.00	\$ -
W. Spruce Street	3rd St to 4th St	1	3	3	350	32	1,244	\$0.00	\$ -
W. Spruce Street	4th St to 5th St	1	3	3	340	32	1,259	\$0.00	\$ -
W. Spruce Street	5th St to 7th St	1	3	3	600	32	2,183	\$0.00	\$ -
W. Walnut Street	7th St to 5th St	1	4	4	750	32	2,717	\$0.00	\$ -
Wyckford Drive	Branford Terrace to Borough Line	1	3	3	1,197	32	4,255	\$0.00	\$ -
Wyckford Drive	Essex Ct North to Borough Line	1	3	3	429	32	1,525	\$0.00	\$ -
Wyckford Drive	Essex Ct South to Branford Terrace	1	3	3	728	32	2,590	\$0.00	\$ -
Wyckford Way	entire road	1	2	2	615	35	2,442	\$0.00	\$ -
								Estimated Cost:	\$ -
								Estimated Percentage:	51.86%

*Estimated cost of repair includes only cost of roadway repair and not required storm sewer improvements.

APPENDIX C

**5 TO 15 YEAR ROADWAY RECONSTRUCTION PLAN
UPDATE**

5 TO 15 YEAR ROADWAY RECONSTRUCTION PLAN UPDATE

Street Name	Section of Roadway	Condition Rating	Volume Rating	Total Rating	Length of Road	Width of Road	Area of Road	Cost per SY	Estimated Cost to Repair
2024 Road Program									
8th Street	124 8th St to Race St	5	4	20	345	26	997	\$42.80	\$ 42,671.60
Park Avenue*	Ridge Road to Country Ridge	5	5	25	1470	24	3,970	\$42.80	\$ 169,916.00
Pine Street	8th St to 9th St	3.5	3	10.5	330	26	1,003	\$21.50	\$ 21,564.50
S. 8th Street	Pine St to Park Ave	3.5	1	3.5	400	25	1,161	\$21.50	\$ 24,961.50
Blooming Glen Drive	5th St to 7th St	3	5	15	1590	32	5,703	\$20.00	\$ 114,060.00
Blooming Glen Drive	7th St to Ridge Rd	3	5	15	1337	19	2,873	\$20.00	\$ 57,460.00
Neighbors Way	entire road	3	1	3	1020	32	4,186	\$20.00	\$ 83,711.11
Penny Lane	entire road	3	2	6	2625	34	9,967	\$20.00	\$ 199,340.00
Estimated Cost 2024:									\$ 713,684.71
2025 Road Program									
2nd Street	Walnut St to Market St	3.5	4	14	1650	32	5,917	\$21.50	\$ 127,215.50
3rd Street	Walnut St to Market St	3.5	3	10.5	1380	32	4,957	\$21.50	\$ 106,575.50
7th Street	Market St to Callowhill St.	3	3	9	1741	32	6,240	\$20.00	\$ 124,800.00
Estimated Cost 2025:									\$ 358,591.00
2026 Road Program									
Amherst Circle	entire road	3.5	1	3.5	500	26	1,494	\$21.50	\$ 32,121.00
Chelsea Court	entire road	3.5	1	3.5	275	24	945	\$21.50	\$ 20,315.11
Dorchester Lane	entire road	3.5	2	7	2700	34	10,250	\$21.50	\$ 220,375.00
Waltham Lane	entire road	3.5	2	7	1045	25	2,953	\$21.50	\$ 63,489.50
Estimated Cost 2026:									\$ 336,300.61
2027 Road Program									
Penn Alley	entire road	3.5	2	7	460	18	970	\$21.50	\$ 20,855.00
3rd Street	Park Ave to Walnut St	3	3	9	860	32	3,108	\$20.00	\$ 62,160.00
Race Street	3rd St to 5th St(Incl. "tail" at 3rd)	3	3	9	875	32	3,161	\$20.00	\$ 63,220.00
S. 6th Street	Chestnut St to Walnut St	3	3	9	350	32	1,294	\$20.00	\$ 25,880.00
W. Walnut Street	Constitution Ave to 5th St	3	4	12	1800	32	6,450	\$20.00	\$ 129,000.00
Estimated Cost 2027:									\$ 301,115.00
2028 Road Program									
Coventry Way	entire road	3.5	2	7	945	34	3,620	\$21.50	\$ 77,830.00
Bramble Lane	entire road	3	1	3	500	24	1,383	\$20.00	\$ 27,660.00
Kent Lane	entire road	3	1	3	1330	35	5,222	\$20.00	\$ 104,440.00
Strawberry Lane	entire road	3	2	6	875	33	4,082	\$20.00	\$ 81,633.33
Walker Way	entire road	3	2	6	390	34	1,523	\$20.00	\$ 30,460.00
Estimated Cost 2028:									\$ 322,023.33
2029 - 2034 Road Programs									
Hampton Circle	entire road	3.5	2	7	1210	26	3,546	\$21.50	\$ 76,239.00
Milliken Court	entire road within Borough	3	1	3	460	33	3,769	\$20.00	\$ 75,373.33
Souder Lane	entire road	3	1	3	315	32	1,537	\$20.00	\$ 30,737.78
Stonycrest Drive	entire road within Borough	3	2	6	1480	32	5,312	\$20.00	\$ 106,240.00
Strassburger Road	entire road	3	2	6	2760	33	10,170	\$20.00	\$ 203,400.00
Estimated Cost 2029-2034:									\$ 491,990.11

*Estimated cost of repair includes only cost of roadway repair and not required storm sewer improvements.

5 TO 15 YEAR ROADWAY RECONSTRUCTION PLAN UPDATE

Street Name	Section of Roadway	Condition Rating	Volume Rating	Total Rating	Length of Road	Width of Road	Area of Road	Cost per SY	Estimated Cost to Repair
2030 - 2035 Road Programs									
Branford Terrace	entire road	3	1	3	760	24	2,077	\$20.00	\$ 41,540.00
Country Pointe Circle	entire road	3	1	3	675	32	2,856	\$20.00	\$ 57,113.33
Essex Court	Branford Ter to Main St	3	2	6	1885	32	6,752	\$20.00	\$ 135,040.00
E. Spruce Street	S. Main St to Constitution Ave	2	4	8	2660	34	10,099	\$7.75	\$ 78,267.25
Hillcrest Road	entire road within Borough	2	3	6	630	18	1,310	\$7.75	\$ 10,152.50
S. Main Street	Spruce St to Borough Line	2	5	10	4275	33	15,725	\$7.75	\$ 121,868.75
S. Main Street	Walnut St to Spruce St	2	5	10	650	32	2,361	\$7.75	\$ 18,297.75
Estimated Cost 2030-2035:									\$ 462,279.58
2031 - 2036 Road Programs									
5th Street	Market St to Borough Line	2	5	10	3890	32	13,881	\$7.75	\$ 107,577.75
7th Street	Park Ave to Market St	2	3	6	2165	32	7,748	\$7.75	\$ 60,047.00
Arch Street	3rd St to 7th St	2	2	4	1620	32	5,810	\$7.75	\$ 45,027.50
N. 6th Street	Market St to Buttonwood St	2	3	6	2200	26	6,406	\$7.75	\$ 49,646.50
Park Avenue	Railroad to 3rd St	2	5	10	1390	32	4,992	\$7.75	\$ 38,688.00
W. Chestnut Street	2nd St to 5th St	2	2	4	1020	32	3,677	\$7.75	\$ 28,496.75
W. Market Street	2nd St to 6th St	2	5	10	1475	32	5,294	\$7.75	\$ 41,028.50
Estimated Cost 2031-2036:									\$ 370,512.00
2032 - 2037 Road Programs									
7th Street	1108 7th St to Blooming Glen Dr	2	3	6	700	32	2,539	\$7.75	\$ 19,677.25
9th Street	Railroad to Borough Line	2	3	6	5590	38	23,652	\$7.75	\$ 183,303.00
10th Street	10th St cul-de-sac	2	1	2	220	18	490	\$7.75	\$ 3,797.50
12th Street	Borough Line to Cul-de-Sac	2	1	2	1110	32	3,997	\$7.75	\$ 30,976.75
Arch Street	9th St to end (past 10th)	2	2	4	565	30	1,933	\$7.75	\$ 14,980.75
Highland Court	entire road	2	1	2	200	28	1,138	\$7.75	\$ 8,822.94
Highwood Court	entire road	2	1	2	330	28	1,191	\$7.75	\$ 9,231.97
Parkridge Court	entire road	2	1	2	225	26	1,148	\$7.75	\$ 8,895.28
Parkridge Drive	entire road	2	2	4	2885	25	8,064	\$7.75	\$ 62,496.00
Poplar Street	entire road	2	1	2	180	10	250	\$7.75	\$ 1,937.50
Vine Street	9th St to Ridge Ave	2	2	4	651	24	1,735	\$7.75	\$ 13,446.25
W. Chestnut Street	8th St to 9th St	2	3	6	385	32	1,419	\$7.75	\$ 10,997.25
Estimated Cost 2032-2037:									\$ 368,562.44

*Estimated cost of repair includes only cost of roadway repair and not required storm sewer improvements.

5 TO 15 YEAR ROADWAY RECONSTRUCTION PLAN UPDATE

Street Name	Section of Roadway	Condition Rating	Volume Rating	Total Rating	Length of Road	Width of Road	Area of Road	Cost per SY	Estimated Cost to Repair
2037+ Road Program									
2nd Street	Market St to Arch St	1	4	4	380	16	726	\$ -	\$ -
3rd Street	Market St to Race St	1	3	3	690	32	2,465	\$ -	\$ -
3rd Street	Race St to Callowhill St	1	3	3	1,130	31	3,942	\$ -	\$ -
4th Street	Borough Line to Arthur Ave	1	3	3	1,270	32	4,566	\$ -	\$ -
4th Street	Park Ave to Walnut St	1	3	3	1,000	32	3,606	\$ -	\$ -
4th Street	Walnut St to Market St	1	3	3	1,220	32	4,388	\$ -	\$ -
4th Street	Market St to Vine St	1	3	3	750	32	2,675	\$ -	\$ -
7th Street	901 7th St to 1025 7th St	1	3	3	1,238	32	4,400	\$ -	\$ -
7th Street	1025 7th St to 1108 7th St	1	3	3	720	32	2,560	\$ -	\$ -
7th Street	Callowhill St. to 901 7th St	1	3	3	1,930	32	6,862	\$ -	\$ -
8th Street	Buttonwood St to Callowhill St	1	2	2	325	27	1,025	\$ -	\$ -
8th Street	Chestnut St to Market St	1	5	5	495	32	1,810	\$ -	\$ -
8th Street	Market St to 124 8th St	1	4	4	645	32	2,293	\$ -	\$ -
8th Street/Vine Street	Callowhill St./7th St	1	4	4	675	31	2,375	\$ -	\$ -
10th Street	Race St to Vine St	1	1	1	407	20	905	\$ -	\$ -
12th Street	Stub from Park Ave	1	1	1	325	14	556	\$ -	\$ -
Arch Street	8th St to 9th St	1	2	2	221	26	688	\$ -	\$ -
Arthur Avenue	entire road	1	3	3	765	38	3,280	\$ -	\$ -
Bridge Street	entire road	1	4	4	310	24	877	\$ -	\$ -
Buttonwood Street	7th St to 5th St	1	2	2	1225	32	4,406	\$ -	\$ -
Buttonwood Street	7th St to 8th St	1	2	2	250	18	550	\$ -	\$ -
Callowhill Street	5th St to 6th St, portion	1	5	5	250	32	939	\$ -	\$ -
Callowhill Street	Ridge Rd to beyond 6th St	1	5	5	2,585	30	8,667	\$ -	\$ -
Cedar Avenue	4th St to 5th St	1	1	1	355	18	760	\$ -	\$ -
Chestnut Court	entire road	1	1	1	775	29	2,497	\$ -	\$ -
Clover Lane	entire road	1	1	1	1,370	24	3,703	\$ -	\$ -
Concord Place	entire road	1	1	1	260	28	1,366	\$ -	\$ -
Connor Lane	entire road	1	1	1	803	34	3,034	\$ -	\$ -
Daniella Circle	entire road	1	1	1	354	34	1,760	\$ -	\$ -
Dill Avenue	entire road	1	1	1	1,323	30	4,410	\$ -	\$ -
E. Chestnut Street	entire road	1	2	2	325	30	1,133	\$ -	\$ -
E. Market Street	entire road	1	1	1	1,370	32	4,921	\$ -	\$ -
E. Spruce Street	S. Main St to cul-de-sac	1	2	2	844	32	3,000	\$ -	\$ -
Elm Avenue	4th St to 5th St	1	1	1	381	26	1,100	\$ -	\$ -
Elm Avenue	5th St to 6th St	1	1	1	345	26	1,047	\$ -	\$ -
Essex Court	Branford Ter to cul-de-sac	1	2	2	565	26	1,045	\$ -	\$ -
Fairview Avenue	entire road	1	1	1	1455	22	3,557	\$ -	\$ -
Fern Drive	entire road	1	1	1	520	26	1,552	\$ -	\$ -
Grandview Avenue	entire road	1	1	1	1543	32	5,485	\$ -	\$ -
Hickory Drive	entire road	1	1	1	592	32	2,713	\$ -	\$ -
Hidden Meadow Drive	entire road	1	1	1	1145	34	4,326	\$ -	\$ -
Highland Drive	entire road	1	2	2	1900	34	7,228	\$ -	\$ -
Hunters Run Road	entire road	1	2	2	1610	26	4,701	\$ -	\$ -
Hyde Lane	entire road	1	1	1	745	32	2,699	\$ -	\$ -
Jefferson Drive	entire road	1	2	2	1555	28	4,888	\$ -	\$ -
Juliana Way	entire road	1	1	1	978	34	3,745	\$ -	\$ -

*Estimated cost of repair includes only cost of roadway repair and not required storm sewer improvements.

5 TO 15 YEAR ROADWAY RECONSTRUCTION PLAN UPDATE

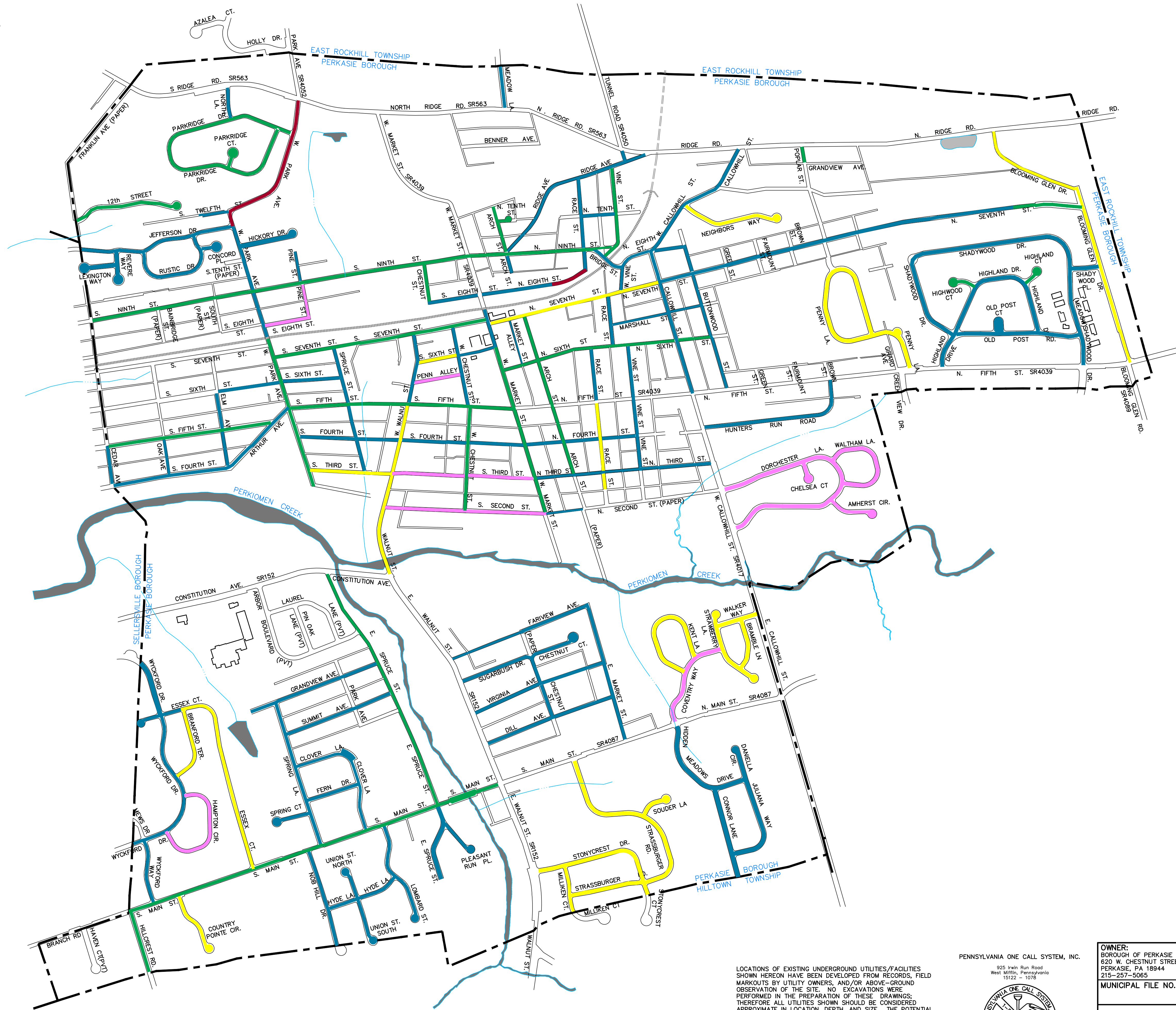
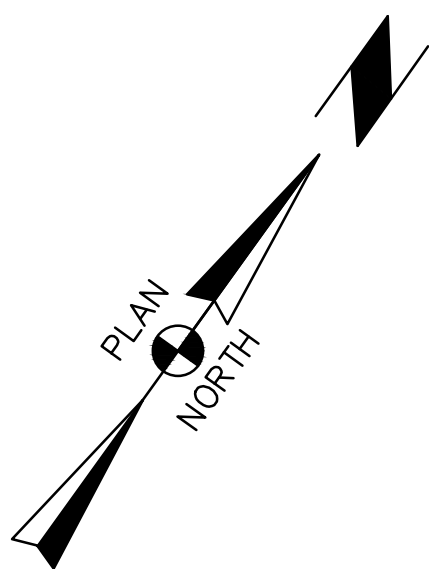
Street Name	Section of Roadway	Condition Rating	Volume Rating	Total Rating	Length of Road	Width of Road	Area of Road	Cost per SY	Estimated Cost to Repair
2037+ Road Program Continued									
Lexington Way	entire road	1	1	1	440	30	1,868	\$ -	\$ -
Lombard Street	entire road	1	2	2	1030	26	3,481	\$ -	\$ -
Market Street Alley	entire road	1	3	3	455	16	859	\$ -	\$ -
Marshall Street	Buttonwood St to Callowhill St	1	1	1	310	22	808	\$ -	\$ -
Marshall Street	Race St to Callowhill St	1	2	2	580	23	1,482	\$ -	\$ -
Meadow Lane	entire road within Borough	1	2	2	425	35	1,703	\$ -	\$ -
Nob Hill Drive	entire road	1	2	2	1185	32	4,534	\$ -	\$ -
North Lane	entire road	1	2	2	315	26	960	\$ -	\$ -
Oak Avenue	entire road	1	2	2	335	22	869	\$ -	\$ -
Old Post Court	entire road	1	1	1	215	82	1,223	\$ -	\$ -
Old Post Road	entire road	1	2	2	1572	32	5,590	\$ -	\$ -
Park Avenue	Country Ridge to the railroad	1	5	5	776	32	2,760	\$ -	\$ -
Park Avenue	Country Ridge Portion	1	5	5	638	32	2,268	\$ -	\$ -
Pine Street	9th St to Country Ridge	1	3	3	100	26	339	\$ -	\$ -
Pleasant Run Place	entire road	1	1	1	662	28	2,060	\$ -	\$ -
Race Street	5th St to 6th St	1	3	3	515	32	1,831	\$ -	\$ -
Race Street	6th St to 7th St	1	3	3	485	32	1,774	\$ -	\$ -
Race Street	8th St to 9th St	1	3	3	220	32	782	\$ -	\$ -
Race Street	Ridge Ave to 9th St	1	3	3	728	30	2,425	\$ -	\$ -
Revere Way	entire road	1	1	1	375	30	1,744	\$ -	\$ -
Ridge Avenue	entire road	1	4	4	1770	28	5,507	\$ -	\$ -
Rustic Drive	entire road	1	2	2	1120	30	3,783	\$ -	\$ -
S. 6th Street	Market St to Chestnut St	1	3	3	340	32	1,209	\$ -	\$ -
S. 6th Street	Spruce St to Elm Ave	1	3	3	1250	28	3,889	\$ -	\$ -
Shadywood Drive	5th St to Shadywood Pl	1	2	2	3600	30	12,050	\$ -	\$ -
Shadywood Drive	Shadywood Pl to Highland Dr.	1	2	2	3600	30	12,000	\$ -	\$ -
Shadywood Place	entire road	1	2	2	325	30	1,083	\$ -	\$ -
Spring Court	entire road	1	1	1	440	26	1,756	\$ -	\$ -
Spring Lane	entire road	1	1	1	1515	26	4,427	\$ -	\$ -
Sugarbush Drive	entire road	1	1	1	373	36	1,542	\$ -	\$ -
Summit Avenue	entire road	1	1	1	1145	18	2,340	\$ -	\$ -
Tunnel Road	entire road excl. PennDOT portion	1	2	2	100	25	278	\$ -	\$ -
Union Street	entire road	1	1	1	820	34	3,913	\$ -	\$ -
Vine Street	3rd St to 6th St	1	3	3	1250	32	4,444	\$ -	\$ -
Virginia Avenue	entire road	1	1	1	1356	32	4,820	\$ -	\$ -
W. Chestnut Street	7th St to 5th St	1	2	2	815	32	2,948	\$ -	\$ -
W. Market Street	6th St to the railroad	1	5	5	775	32	2,806	\$ -	\$ -
W. Spruce Street	3rd St to 4th St	1	3	3	350	32	1,244	\$ -	\$ -
W. Spruce Street	4th St to 5th St	1	3	3	340	32	1,259	\$ -	\$ -
W. Spruce Street	5th St to 7th St	1	3	3	600	32	2,183	\$ -	\$ -
W. Walnut Street	7th St to 5th St	1	4	4	750	32	2,717	\$ -	\$ -
Wyckford Drive	Branford Terrace to Borough Line	1	3	3	1197	32	4,255	\$ -	\$ -
Wyckford Drive	Essex Ct North to Borough Line	1	3	3	429	32	1,525	\$ -	\$ -
Wyckford Drive	Essex Ct South to Branford Terrace	1	3	3	728	32	2,590	\$ -	\$ -
Wyckford Way	entire road	1	2	2	615	35	2,442	\$ -	\$ -

Estimated Cost 2037+: \$ -

*Estimated cost of repair includes only cost of roadway repair and not required storm sewer improvements.

APPENDIX D

**PERKASIE BOROUGH ROADWAY CONDITION MAP
UPDATE**

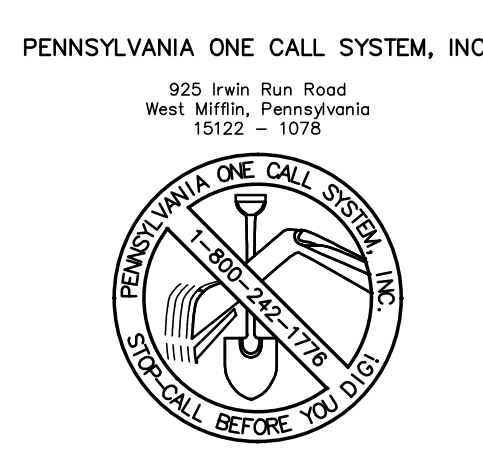


LEGEND

ROAD COLOR	CONDITION RATING
	1
	2
	3
	3.5
	4
	4.5
	5

ONLY THOSE PLANS INCORPORATING THE RAISED PROFESSIONAL SEAL SHOULD BE CONSIDERED OFFICIAL AND RELIED UPON BY USER. THIS PLAN IS PREPARED SPECIFICALLY FOR THE CLIENT AND PROJECT DESIGNATED HEREON. MODIFICATION, REVISION, DUPLICATION OR USE WITHOUT THE CONSENT OF GILMORE & ASSOCIATES, INC. IS PROHIBITED. © COPYRIGHT 2021 GILMORE & ASSOCIATES, INC. ALL RIGHTS RESERVED.

LOCATIONS OF EXISTING UNDERGROUND UTILITIES/FACILITIES SHOWN HEREON HAVE BEEN DEVELOPED FROM RECORDS, FIELD MARKOUTS BY UTILITY OWNERS, AND/OR ABOVE-GROUND OBSERVATION OF THE SITE. NO EXCAVATIONS WERE PERFORMED IN THE PREPARATION OF THESE DRAWINGS. THEREFORE ALL UTILITIES SHOWN SHOULD BE CONSIDERED APPROXIMATE IN LOCATION, DEPTH, AND SIZE. THE POTENTIAL EXISTS FOR OTHER UNDERGROUND UTILITIES/FACILITIES TO BE PRESENT WHICH ARE NOT SHOWN ON THE DRAWINGS. ONLY THE VISIBLE LOCATIONS OF UNDERGROUND UTILITIES/FACILITIES AT THE TIME OF FIELD SURVEY SHALL BE CONSIDERED TRUE AND ACCURATE. COMPLETENESS OR ACCURACY OF UNDERGROUND UTILITIES/FACILITIES ARE NOT GUARANTEED BY GILMORE & ASSOCIATES, INC.



ALL CONTRACTORS WORKING ON THIS PROJECT SHALL VERIFY LOCATION AND DEPTH OF ALL UNDERGROUND UTILITIES/FACILITIES PRIOR TO START OF WORK AND SHALL COMPLY WITH THE REQUIREMENTS OF P.L. 852, NO. 287 DECEMBER 10, 1974 AS LAST AMENDED ON NOVEMBER 2, 2016, PENNSYLVANIA ACT 121.

BEFORE YOU DIG ANYWHERE IN PENNSYLVANIA! CALL 1-800-242-1776 NON-MEMBERS MUST BE CONTACTED DIRECTLY PA LAW REQUIRES THREE WORKING DAYS NOTICE TO UTILITIES BEFORE YOU EXCAVATE, DRILL, BLAST OR DEMOLISH

OWNER: BOROUGH OF PERKASIE 820 W. CHESTNUT STREET PERKASIE, PA 18944 215-257-5065		REV.	DESCRIPTION	DATE	BY
MUNICIPAL FILE NO.:		TAX MAP PARCEL NO.:	ROADWAY CONDITION MAP UPDATE		
DATE: 09/06/2023		TOTAL AREA:	TOTAL LOTS:	2021 PERKASIE ROADWAY CONDITION SURVEY	
SCALE: 1"=500'		BOROUGH OF PERKASIE, BUCKS COUNTY, PENNSYLVANIA			
		GILMORE & ASSOCIATES, INC. ENGINEERING & CONSULTING SERVICES 65 EAST BUTLER AVENUE, SUITE 100, NEW BRITAIN, PA 18901-5106 • (215) 345-4330 • www.gilmore-assoc.com			
		JOB NO.: 2023-01093			
DESIGNED BY: DCR		DRAWN BY: TMW		CHECKED BY: DCR	
				SHEET NO.: 1 OF 1	