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# Infrastructure Management Plan

## City of Storm Lake, IA

July 2021

**Submitted by:**

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# Certification

## 2021 Infrastructure Management Plan

City of Storm Lake, Iowa

July 2021

	<p>I hereby certify that this engineering document was prepared by me or under my direct personal supervision and that I am a duly licensed Professional Engineer under the laws of the State of Iowa.</p> <p>_____ Date: _____</p> <p>Joshua Pope License No. 23600 My renewal date is 12/31/2021 Pages or sheets covered by this seal: <u>All Sheets</u></p>
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## I. INTRODUCTION

### A. Purpose

The purpose of this report is to summarize the overall conditions of pavements and utilities within the City of Storm Lake. Once the existing conditions are understood, the need for maintenance and replacement costs can be better understood. This report will provide the information needed for budgeting and planning future projects. This information can then be used for updating the City's Capital Improvement Plan.

### B. Method & Scope

Traditionally, cities approach infrastructure management from a reactive approach. As issues arise, a City will respond to the most immediate needs first. This type of infrastructure management may seem efficient since only the most critical elements are being replaced; however proactive management of these systems have proven to be more effective and efficient.

This report describes an infrastructure management strategy that is more proactive than traditional methods. This approach recognizes that the street and utility systems within Storm Lake are interwoven. Proper timing for maintenance and replacement of all elements will ensure that the useful life of all infrastructure within a given corridor is maximized prior to replacement. This approach will also improve the overall quality of infrastructure over its useful life and reduce the potential for unplanned and unforeseen replacements.

This report will discuss the existing conditions, maintenance, and replacement procedures for public streets, water distribution system piping, and sanitary collection system piping.

The following sections first include discussion on pavement management, followed by utility (watermain and sanitary sewer) management. The report is concluded with a summary of how to use this information for future infrastructure maintenance and replacement planning.

## II. PAVEMENT MANAGEMENT

### A. Introduction & Approach

The timing of maintenance and rehabilitation of concrete pavements can greatly influence their effectiveness, costs, and overall pavement life. In general, once a pavement needs attention, the sooner maintenance or rehabilitation activity is undertaken, the more cost-effective it will be. Storm Lake maintains approximately 50 miles of paved streets. This includes 32 miles of concrete pavement, 3 miles of asphalt pavement, and 15 miles of street consisting of both pavement types. This represents a significant portion of the City's capital worth and needs to be managed efficiently. These lengths do not include highways or county roads within city limits.

In 2020, the Iowa Department of Transportation conducted a visual condition survey of City streets. This process was undertaken to determine the current condition of these assets and rate their condition relative to each other. The City can use this baseline data for determining the appropriate timing of cost-effective road treatments.

The visual conditions were evaluated using the general guidelines of the Pavement Condition Index (PCI) system, quantifying several different types of pavement distress. This rating system assigns a numerical rating to each street within the community. The City can use this data to prioritize needs and assign the proper level of maintenance for each street.

Total reconstruction of a street is a very costly procedure. Research shows that periodic maintenance of streets in good condition can extend their service life at a reduced cost and increase the average pavement condition throughout the service life.

## B. Street Life Cycle

The condition of a street pavement is affected by several factors, including but not limited to:

- Street section (pavement and aggregate base thickness)
- Traffic characteristics and loading
- Subgrade soil (sand, clay, silt) and moisture conditions
- Drainage (street profile, cross section, storm sewer)
- Age
- Maintenance program

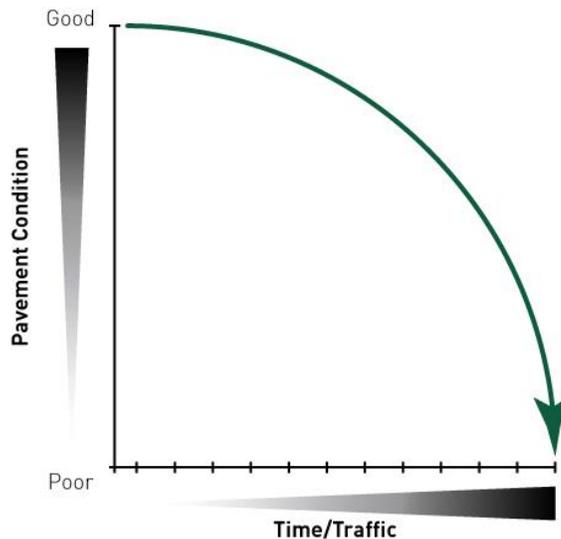
Each of the above listed items contributes to the overall condition and lifecycle of a public street. It is not uncommon for streets in the same area and constructed at the same time, to vary in condition.

In many cases, the approach utilized by cities includes rehabilitation and reconstruction to address the poorest condition road segments first with less attention paid to preventative maintenance. The approach advocated by pavement experts recommends that more attention be placed on preventative maintenance and preserving the pavement condition to extend the useful life of the road segment.

After the initial construction, concrete pavements require periodic maintenance and rehabilitation to maximize life. In general, concrete pavements deteriorate slowly during the first 25 years of the street lifecycle. Following this period, pavements tend to deteriorate more rapidly.

**Figure 1** illustrates how the typical street condition will deteriorate with little to no maintenance or rehabilitation.

**Figure 1: Typical Pavement Lifecycle w/ No Maintenance or Rehabilitation**

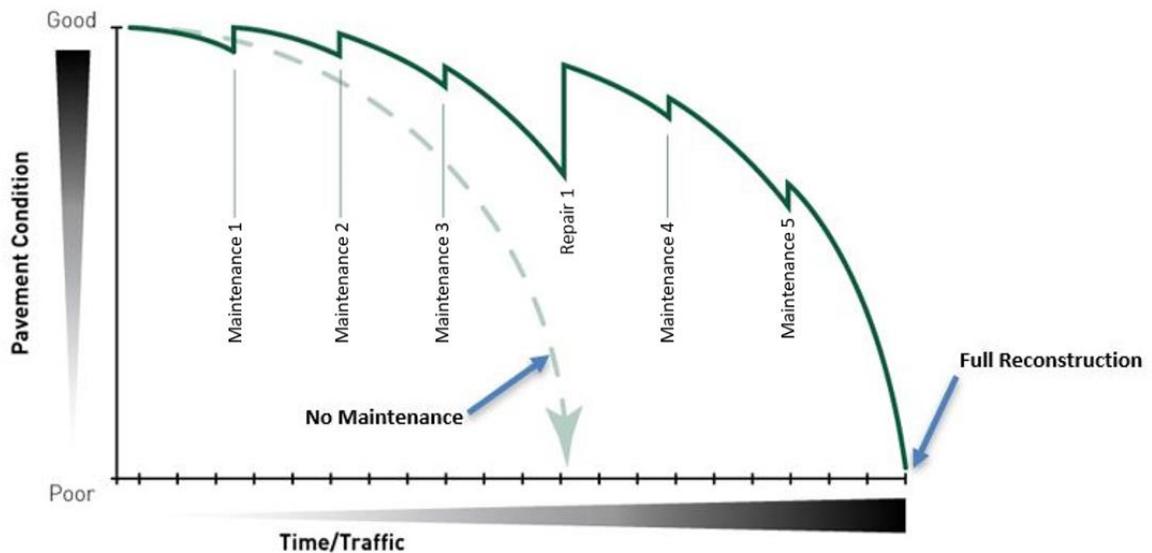


The first and most cost-effective approach to extending the life of pavement is through joint/crack sealing and isolated repairs. This type of maintenance prevents the migration of surface water into the underlying soils and repairs pavement defects before they impact the structural integrity of the pavement. Collectively, joint/crack sealing and isolated pavement repairs will increase the life of pavements moderately, if completed within 5-10 years of construction.

Eventually, pavements will deteriorate to a level where maintenance costs increase and the benefits of the joint/crack sealing and isolated repairs decrease. In these cases, the next level of pavement management will generally include full depth repairs and panel replacements.

With the proper combination of pavement maintenance and rehabilitation, a pavement can be used for 50 years or more. **Figure 2** shows how the pavement lifecycle can be maximized using the proper combination of maintenance and rehabilitation.

**Figure 2: Typical Pavement Lifecycle w/ Maintenance & Rehabilitation**



In any scenario, pavements will eventually deteriorate to a point where low-cost maintenance or rehabilitation activities are no longer effective and a complete replacement of the street section (reconstruction) is required. The amount of effort a City puts into the street before it reaches this point will ultimately influence how often these costly reconstructions occur.

*Table 1* provides an example cost analysis for comparing the costs of pavement management with and without an active maintenance program. Anticipated costs and general pavement conditions are provided over a 60-year time period.

<b>Table 1 - Pavement Life Cycle Cost Example</b>				
<b>Item</b>		<b>Year</b>	<b>Approximate Pavement Cost (Per Foot)</b>	
			<b>With Maintenance</b>	<b>Without Maintenance</b>
Initial Construction		0	\$500.00	\$500.00
Seal Joints		5	\$5.00	
Seal Joints		10	\$5.00	
Seal Joints & Isolated Repairs		15	\$22.00	
Seal Joints		20	\$5.00	
Seal Joints		25	\$5.00	
Rehabilitation	Reconstruction	30	\$150.00	\$500.00
Seal Joints		35	\$5.00	
Seal Joints		40	\$5.00	
Seal Joints & Isolated Repairs		45	\$22.00	
Seal Joints		50	\$5.00	
Seal Joints		55	\$5.00	
Reconstruction		60	\$500.00	\$500.00
<b>Life Cycle Cost Per Foot</b>			<b>\$1234.00</b>	<b>\$1500.00</b>
<b>Difference</b>			<b>(-) \$266.00</b>	<b>-</b>

- Good Pavement Condition
- Fair Pavement Condition
- Poor Pavement Condition

\*Costs indicated above are based on typical costs for the area in 2021 dollars. Unit pricing per foot is based on an average 31-ft wide residential concrete street pavement.

In this representative example, the overall life cycle costs for managing pavements with an active maintenance program results in a net savings in comparison to management without maintenance. When holding all variables equal, the driving surface conditions throughout the service life of the street are drastically improved when pavements are regularly addressed with preventative maintenance and timely rehabilitation.

It should also be noted that the additional reconstruction project required on the street without maintenance will require a major disruption to adjacent landowners for one construction season. In comparison, the street with regular maintenance will not require major disruption until after 50 years or more of service life.

### C. Current Pavement Condition

The paved streets in Storm Lake were evaluated by visually observing the condition of the pavement surface. The pavement was rated using a numerical condition rating system for several types of pavement distress. The rating scale ranged from 100 for a newly surfaced street to 1 for a failed surface. Gravel surfaces were not included in this evaluation.

The pavement condition ratings are illustrated in *Appendix B-1*.

**Table 2**, below, shows a summary of typical recommended maintenance and rehabilitation options based on the current pavement condition rating.

<b>Table 2 – Pavement Conditional Ratings Description</b>		
<b>Conditional Rating</b>	<b>Condition Description</b>	<b>Typical Recommended Activity</b>
70 – 100	Excellent to Good	Joint/Crack Sealing and Isolated Repairs
40– 69	Good to Fair	Full Depth Repairs & Panel Replacement
1 – 39	Fair to Very Poor	Reconstruction

**Table 3**, below, provides a summary of the overall pavement condition throughout the city.

<b>Table 3 – Pavement Conditional Ratings Summary</b>		
<b>Conditional Rating</b>	<b>Total Street Length (Miles)</b>	<b>Percentage of Total Miles</b>
70 – 100	14.3	29%
40– 69	31.8	64%
1 – 39	3.6	7%
<b>Total</b>	<b>49.7</b>	<b>100%</b>

As presented in **Table 3**, the City has 29% of streets in excellent to good condition (Rating 70 – 100). As discussed previously, the condition of these streets into the future is highly dependent on the City’s ability to provide timely maintenance.

A larger percentage (64%) of streets are designated as good to fair condition (Rating 40 – 69). These streets are beginning to deteriorate more rapidly. Pavement maintenance (joint/crack sealing & isolated repairs) within these streets will likely be costly and will not adequately address the needs of the street section. When considering options for pavement management alone, these streets are recommended for full-depth repairs with panel replacement, as needed.

A smaller portion (7%) of the streets have a fair to very poor rating (1 - 39) due to their level of deterioration where neither joint/crack sealing nor patching would be appropriate methods of rehabilitation. These streets are generally addressed through a full depth replacement of the pavement surface and subbase or other similar methods.

If current needs are not addressed, pavements will continue to deteriorate, increasing the amount of costly reconstruction projects.

When prioritizing pavement management projects, it is important to first consider the streets in good conditions and continue with a regularly scheduled maintenance program. Once a preventative maintenance program is properly funded, a regular pavement rehabilitation program can be funded. For most cities using this approach, these programs exhaust the street maintenance cash budget. As a result, the costlier reconstructions of heavily deteriorated streets are given a minimal amount of attention until a project can be financed or funded with other alternative sources.

Prior to executing an effective pavement management plan, understanding the needs of underground public utility mains is crucial. In many cases, the needs of utilities will drastically change future pavement maintenance activities. The following section contains discussion on utility management, followed by recommendations for combining pavement and utility management into an effective infrastructure management program.

### III. UTILITY MANAGEMENT

#### A. Introduction

The following contains a brief review of the City of Storm Lake's current water distribution and sanitary collection systems. The report does not address the condition of water storage tanks, wells, or treatment systems.

Bolton & Menk has reviewed information for the sanitary and watermain pipe networks throughout the community. Information collected is summarized in this report. The following sections discuss the condition and needs of the water distribution and sanitary sewer pipe networks.

#### B. Watermain

The City of Storm Lake's water distribution system consists of approximately 91 miles of watermain, including mains outside of city limits. These mains have pipe diameters between 2 and 18 inches. Pipe materials consist of mostly cast iron and PVC pipe with a few segments of ductile iron pipe.

In general, the cast iron pipe consists of smaller diameters (4-6 inches) which generally do not provide adequate flows for fire protection. Cast iron pipe tends to lose strength due to corrosion of pipe walls over time. Pipe which is severely corroded is susceptible to watermain breaks resulting in unplanned, costly repairs. In less severe cases, corrosion can cause pin holes in pipe walls, leading to water loss within the system.

The City should begin the process of replacing cast iron pipe within the existing water distribution system, prioritizing on sections with small diameters and/or frequent breaks. Over time, the replacement of this pipe with new 8 inch or larger PVC will reduce the occurrence of watermain breaks, decrease water loss, and provide increased hydraulic conductivity.

In some areas throughout the city, rather than replacing the existing cast iron pipe, an additional parallel main was installed to increase flows and reduce short term costs. In the future, the City should consider replacing these dual mains with a single properly sized pipe, resulting in less total pipe, less maintenance, and less future cost.

In many cases the replacement of watermain is most cost effective if completed with regularly scheduled street reconstruction projects. During these projects, the overlying pavement surface is already being replaced, which provides the opportunity to excavate and replace with new piping. This is also a good opportunity to replace water service lines and curb stops within the public right-of-way. Replacement of service lines during reconstructions allows the City to ensure that piping is buried to adequate depth for frost protection and curb stops are functional.

When developing future reconstruction projects, it is important to consider the impact of each segment to the entire water system. **Moving forward, City should utilize and regularly update its water distribution model.** An accurate model will provide guidance to proper pipe sizing, critical trunk line locations, and overall system improvements.

The layout of the existing water distribution system is illustrated in *Appendix B-2*.

### C. Sanitary Sewer

The existing sanitary sewer collection system of Storm Lake consists of approximately 64 miles of sanitary sewer mains with diameters between 6 and 30 inches. Most of the sanitary collection system pipe materials consist of vitrified clay pipe (VCP) or PVC.

VCP sanitary sewer typically consists of short (3- to 5-foot) segments of pipe with cement mortar joints. Typically, VCP sanitary sewer is susceptible to groundwater infiltration, resulting in increased wastewater treatment costs, wastewater treatment permit violations, and increased potential for wastewater backups and emergency overflows during heavy rainfall events. In areas with VCP sanitary main, it is common to find concrete block or brick manhole structures in use. These structures are also susceptible to groundwater infiltration.

The City of Storm Lake will benefit from implementing a sanitary sewer rehabilitation and replacement plan. From a high-level planning standpoint, target areas of the system should generally include those with clay pipe sanitary main.

The layout of the existing sanitary collection system is illustrated in *Appendix B-3*.

Sanitary sewer can be replaced or rehabilitated using several different methods. In the most basic forms, these methods include either open excavation replacement or lining methods. If sanitary sewer replacement is planned with other street improvements, open excavation, removal of old piping, and replacement with new pipe is the most cost-effective means of implementing improvements. In most cases, sanitary services are in similar or worse condition than the main located below the street. For this reason, replacement of sanitary service lines within the public right-of-way should also be planned with sanitary sewer improvement projects.

In other instances, lining methods can be used to rehabilitate existing mains. In most cases, lining is best utilized when there are few service connections and/or when mains are located in areas where surface excavations require costly challenges such as alleys. Approximately 10,000 feet of Storm Lake's sanitary sewer mains are in alleys where narrow right of way and other utilities make open excavation challenging.

Over time, additional information on key problem areas can be added to the details of this report. **Moving forward, the City should consider starting a regular televising and cleaning program.** This form of inspection allows the City to prioritize sanitary sewer replacements in the future. More importantly, critical failures within the collection system can often be identified and addressed prior to the occurrence of backups. In most cases, Cities with televising and cleaning programs use around a 10-year cycle for all sanitary mains within the City. The City should also consider implementing a sump pump inspection program. Regular inspection programs will better assure that few major clear water inflow contributors exist within the system over a long period of time.

Similar to a water distribution model, a sanitary sewer collection model can assist with future planning. **The City should consider building upon the recent lift station study and developing a sanitary sewer collection model.** A system-wide model will help determine collection system sizing, lift station sizing, and establish current and future capacities.

## IV. EXECUTION

### A. Introduction

As discussed in the pavement management and utility management sections of this report, the infrastructure needs can be broken down into three separate categories, as summarized in **Table 4**. For this management plan all maintenance, rehabilitation, and reconstruction is assumed to be of concrete pavement.

<b>Improvement Type</b>	<b>Infrastructure Type</b>	<b>Goal</b>
Pavement Maintenance Joint/Crack Sealing & Isolated Repairs	Pavement	Preserve condition of existing surface
Pavement Rehabilitation Full Depth Repairs & Panel Replacement	Pavement	Rehabilitate the existing surface
Full Reconstruction	Pavement	Replace the existing surface
	Watermain	Replace cast-iron pipe (prioritize sections with small diameters and/or frequent breaks)
	Sanitary Sewer	Replace or Rehab clay (VCP) pipe

### B. Pavement Maintenance Program

Joint/Crack Sealing & Isolated Repairs should be completed for all streets in good or better condition (Rating  $\geq 70$ ). These streets will only remain in their current condition with regular maintenance.

Streets to be considered for future maintenance are illustrated in **Appendix B-4**. Planning level cost estimates for all streets in the pavement maintenance program are included in **Appendix C-1**.

**It is recommended that the City budget approximately \$120,000 annually for the pavement maintenance program.** This budget is based on the current street conditions and a 5-year cycle after initial construction. Over time, this annual budget for pavement maintenance will increase as more streets are reconstructed. This budget includes the estimated cost for joint/crack sealing and isolated repairs only. Additional funding will be necessary for other street maintenance.

### C. Pavement Rehabilitation Program

A large portion of the existing streets have a current conditional rating which warrant full-depth patching and panel replacements. These streets have the following in common:

- Pavement Conditional Rating of 40 to 69
- No public utilities below street or utilities below street in satisfactory condition

Please note that streets to be considered for pavement rehabilitation do not include those with known utility replacement needs below the pavement surface. Streets recommended for a pavement rehab are illustrated in *Appendix B-4*. Planning level cost estimates are included in *Appendix C-2*.

**Currently, there is approximately \$13.2 million worth of pavement rehabilitation projects recommended. It is recommended that the City budget \$900,000 to \$1,300,000 annually for the pavement rehabilitation program.** The City may implement these improvements in phases; however, failure to address these streets within the next 10 to 15 years will likely result in deterioration of the pavement, requiring more robust repairs (such as a full reconstruction).

### D. Reconstruction Program

Street and utility reconstruction projects are expensive and invasive. When planning for these projects, it is important that adequate funds are available. Proper timing of these projects will also ensure a high degree of value with each project.

The Street Reconstruction Map is illustrated in *Appendix B-5*. These areas are characterized based on the need for a reconstruction. These categories include the following:

- *Reconstruction based on street and utility condition (High Value)*
  - Street condition requires reconstruction.
  - Sanitary and/or watermain requires replacement.
- *Reconstruction based on unsatisfactory utility condition and repairable pavement condition (Medium Value)*
  - Street condition requires rehabilitation.
  - Sanitary and/or watermain requires replacement.
- *Reconstruction based on unsatisfactory utility condition only (Low Value)*
  - Street in good condition, no current need for reconstruction/rehabilitation
  - Sanitary and/or watermain requires replacement.
- *Reconstruction based on unsatisfactory street condition only (High Value)*
  - Street condition requires reconstruction.
  - Sanitary and/or watermain in satisfactory condition or does not exist.

Complete excavation and replacement of a pavement surface provides an opportunity for more cost-effective underground utility replacement. Streets requiring reconstruction based on the poor conditions of both street and utility conditions will provide the most value to the City. A complete list of all streets currently recommended for reconstruction is provided in *Appendix C-3*.

**Based on the review completed as part of this report, the city-wide reconstruction needs total to approximately \$164 million.**

Of the total reconstruction need, approximately **\$23.1 million are higher value projects** which would not require premature replacement of pavement if completed in the near future. Although addressing the total needs of the City's infrastructure may be financially infeasible within a standard capital improvement planning period of 5 to 10 years, it is important to note that the City will benefit from regular and steady progress. Over time, properly planned improvements will result in less costly maintenance and an overall increase to the quality of the street and utility systems.

Using a service life of 50-60 years and the total reconstruction need of \$164 million, **the City of Storm Lake should aim to complete \$2.7 to \$3.3 million of reconstruction improvements annually.** These improvements may fall under one larger project, or multiple smaller (~\$1 million) projects depending on the location and type of improvements.

The timing and size of each improvement project can be determined by the City's financial advisor when updating the Capital Improvement Plan. For the sake of discussion, most cities the size of Storm Lake implement street and utility improvement projects between \$1 million and \$3 million. Projects smaller than \$1 million can sometimes result in increased costs, due to some of the fixed costs (i.e. mobilization, portions of design costs, etc.) associated with any project. Similarly, projects more than \$3 million usually result in a smaller pool of available bidders that are equipped to complete a larger project.

Although street improvement projects are most typically financed through the sale of bonds, other outside funding sources do arise from time to time. In some cases, these funding opportunities offer grants. The information contained in this report will allow the City to respond to funding/grant opportunities quickly.

## V. CONCLUSION & RECOMMENDATIONS

This report is intended to be used for high level pavement and utility management. The recommendations below summarize the key takeaways from this report.

- Implement an on-going **Pavement Maintenance Program** for streets in good or better condition (70-100 rating).
  - Current recommended budget: \$120,000/year
  - Budgeting for pavement management can be optimized by aggressively targeting pavement maintenance projects first.
- Implement an on-going **Pavement Rehabilitation Program** for streets beginning to show signs of aging (40-69 rating).
  - Current recommended budget: \$900,000-\$1,300,000/year
  - Determine funding source for Pavement Rehabilitation Program
  - Complete recommended rehabilitation projects within the next 10-15 years.
- Begin regularly scheduled **Street and Utility Reconstruction projects**, as financially feasible.
  - Current recommended budget: \$2.7-\$3.3 million/year
  - When evaluating projects, consider needs of both pavement & utilities.
  - Update capital improvement plan and financing plan with City's financial advisor
  - Prioritize streets with both pavement and utility needs for project selection.
- Utilize and regularly update the **Water Distribution Model**.
  - Determine proper pipe sizing & establish critical trunk line locations.
  - Assist with future planning and improvements.
- Develop and implement a **Sanitary Sewer Cleaning and Televising Program**.
  - Identify areas of infiltration and prevent pipe failures.
  - Assist with project evaluations.
- Develop a **Sanitary Sewer Collection Model**.
  - Determine collection system and lift station sizing.
  - Analyze current and future capacities.
- Information from **this report should be updated at least every five years**, or with every regularly scheduled reconstruction project, as part of the project selection process.

## Appendix A:

- Pavement Management Terminology

## **Pavement Management Terminology**

**Pavement Condition Index (PCI):** The Pavement Condition Index is a numerical system used to rate pavement condition based on the type, severity, and density of distress observed on the pavement surface. The ratings range from 100 for a newly surfaced street to 1 for a failed surface.

**Joint/Crack Sealing** –Routinely applying joint sealant to a concrete surface that lengthens the pavement service life. It is a material that minimizes both infiltration of surface water and incompressible material into the joint system. Secondly, sealants are also intended to reduce the potential for dowel bar corrosion by reducing entrance of de-icing chemicals in the pavement structure.

**Full Depth Repairs** – Full depth repairs involve removing existing concrete that has deteriorated and/or has shown signs of structural distress. Next steel reinforcement and/or steel dowel bars are installed to secure the repair/transfer load to the adjacent pavement. New concrete is poured and finished to complete the repair. These repairs vary in shape, size and configuration depending on the existing pavement condition, type of distress, and jointing pattern. Pavement repairs provide smoother driving surface and extend the life of the pavement.

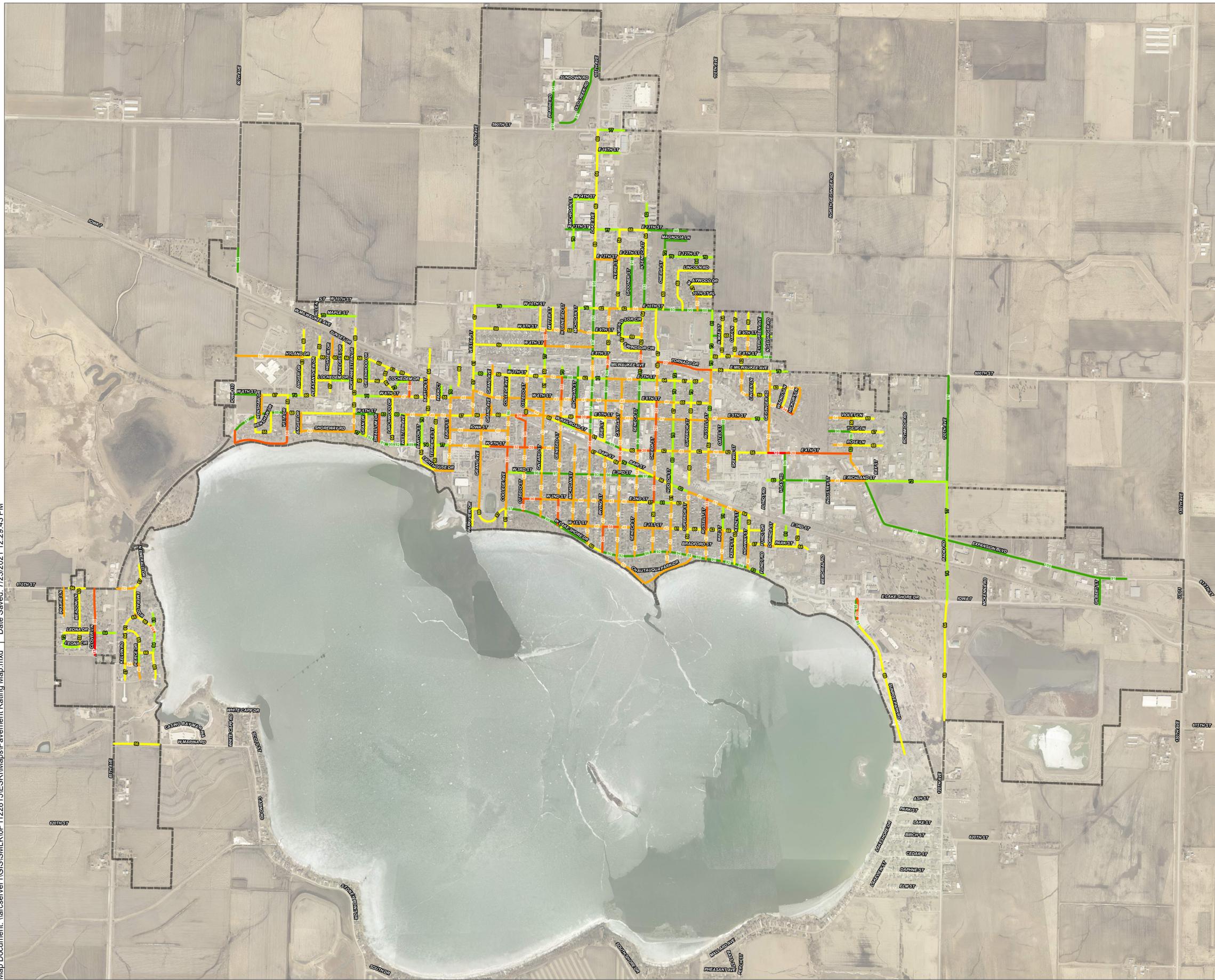
**Panel Replacement** – Similar to full depth repairs, panel replacements consist of removing and replacing the full pavement section and installing steel reinforcement and/or steel dowel bars. Rather than replacing a portion of an existing concrete panel, or repairing a failed joint, this type of repair consists of replacing the entire panel of concrete pavement.

**Pavement Maintenance** – Pavement maintenance includes joint/crack sealing, and isolated repairs such as full depth repairs or surface grinding. This work can preserve the existing pavement condition, slow deterioration, and ultimately extend the service life of the pavement. It is recommended to perform these pavement maintenance practices on a 5-year cycle on pavements with PCI ratings between 70 and 100.

**Pavement Rehabilitation** – Pavement rehabilitation includes full depth repairs and/or panel replacements. These rehabilitation practices consist of removing and replacing the full pavement section and steel/dowel bars. This type of improvement can extend the life of the pavement by 20 years or more, delaying the need for a full reconstruction.

**Full Reconstruction** – A street reconstruction includes the complete removal of existing pavement and aggregate base and replacement with new base and pavement. In many cases, a portion of the existing subgrade soils are removed and replaced with a structural sand/rock layer (subgrade correction), and portions or all of the curb and gutter may be replaced in urban sections. This option requires the largest investment and is typically applied in areas where pavements are showing significant areas of major distress or the underlying municipal utility conditions warrant replacement. However, this option provides a period of 20-30 years before major pavement rehabilitation is required.

## Appendix B: Figures



**Storm Lake, IA**  
Pavement Ratings

**LOCATION MAP**

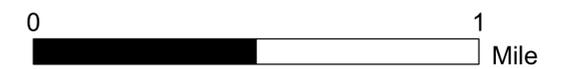


**Legend**

**Pavment Ratings (PCI)**

- Very Poor
- Poor
- Fair
- Good
- Very Good
- Excellent

Storm Lake City Limits

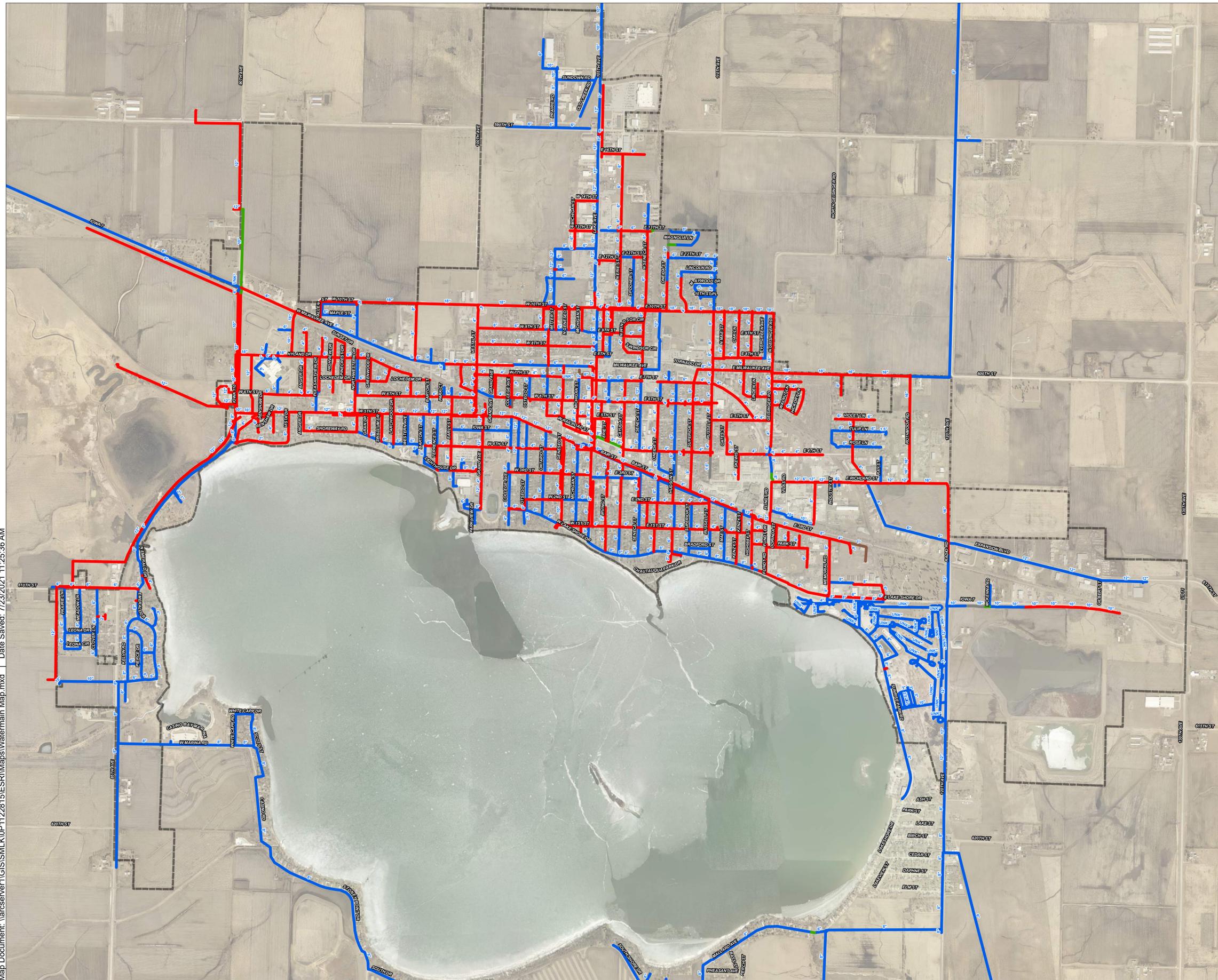


Source: ESRI, City of Storm Lake, Buena Vista County, Iowa DOT.



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**LOCATION MAP**



**Legend**



**Watermain (By Material)**

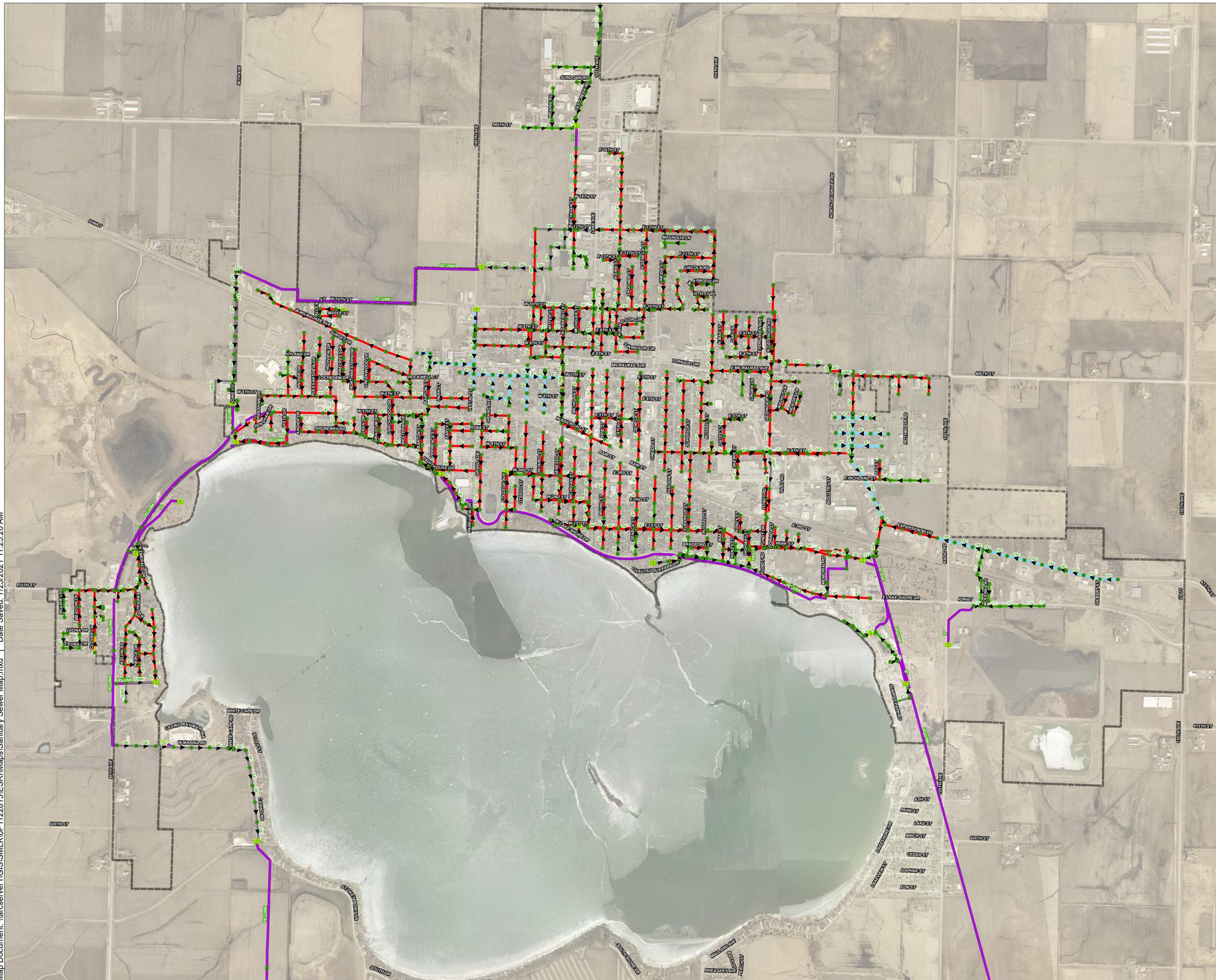
- CIP
- DIP
- PVC
- Copper
- Other/Unknown
- Storm Lake City Limits



Source: ESRI, City of Storm Lake, Buena Vista County, Iowa DOT.



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# Storm Lake, IA

Sanitary Sewer  
Collection

## LOCATION MAP



## Legend

- Sanitary Lift Station
- Sanitary Manhole

## Sanitary Sewer Main (By Material)

- VCP (Clay)
- CIP
- PVC
- CIPP
- Other/Unknown
- Sanitary Forcemain
- Storm Lake City Limits



Source: ESRI, City of Storm Lake, Buena Vista County, Iowa DOT.



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# Storm Lake, IA Pavement Maintenance Rehabilitation Map

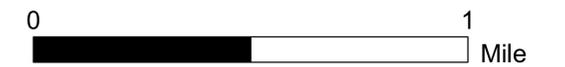
## LOCATION MAP



## Legend



-  Pavement Maintenance: Joint/Crack Seal & Isolated Repairs
-  Pavement Rehabilitation: Full Depth Repairs & Panel Replacement
-  Storm Lake City Limits

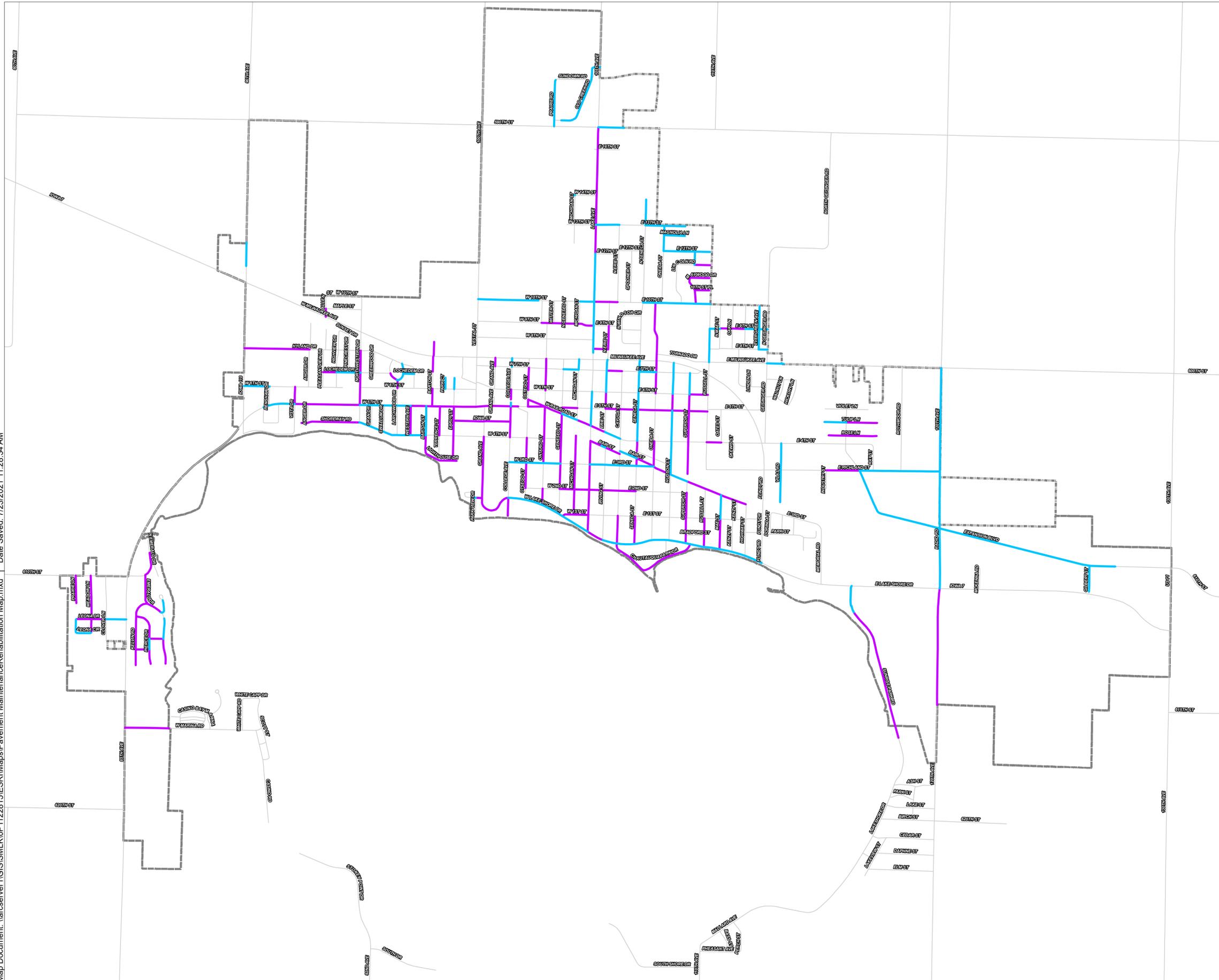


Source: ESRI, City of Storm Lake, Buena Vista County, Iowa DOT.



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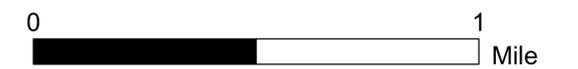
# Storm Lake, IA Reconstruction Project Map

## LOCATION MAP



## Legend

- High Value - Street & Utility
- Medium Value - Street & Utility
- Low Value - Utility Driven
- High Value - Street Driven
- Storm Lake City Limits

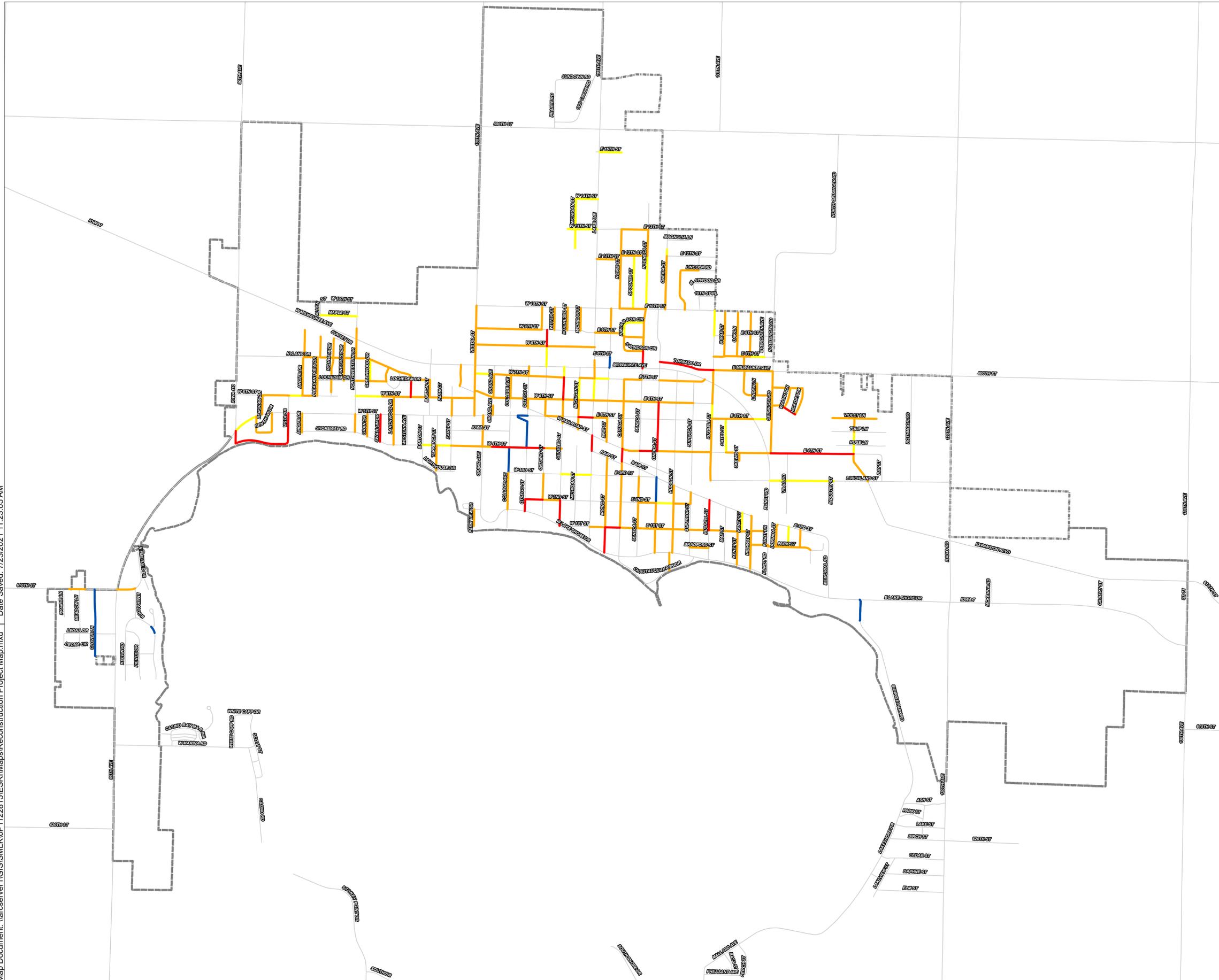


Source: ESRI, City of Storm Lake, Buena Vista County, Iowa DOT.



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# Appendix C: Cost Estimates



# PAVEMENT MAINTENANCE PROJECTS (BY STREET SEGMENT)

INFRASTRUCTURE MANAGEMENT PLAN  
CITY OF STORM LAKE, IA

Street	From	To	Street Length	Street Width	Pavement Area	Joint Seal & Isolated Patching Estimated Cost (Sq. Yd)	Street Rating (PCI)
			(Ft)	(Ft)	(Sq. Yd)	\$3.00	
<b>East-West Streets (Page 1)</b>							
WEST 3RD STREET	COLLEGE AVENUE	OTSEGO STREET	385	28	1198	\$3,594.00	80
WEST 3RD STREET	OTSEGO STREET	ONTARIO STREET	390	30	1300	\$3,900.00	96
WEST 3RD STREET	ONTARIO STREET	GENESEO STREET	387	30	1290	\$3,870.00	97
EAST 3RD STREET	LAKE AVENUE	IRVING STREET	345	58	2223	\$6,669.00	93
EAST 3RD STREET	IRVING STREET	CAYUGA STREET	330	58	2127	\$6,381.00	98
EAST 3RD STREET	CAYUGA STREET	SENECA STREET	387	58	2494	\$7,482.00	98
EAST 3RD STREET	SENECA STREET	BAIR STREET	390	30	1300	\$3,900.00	97
EAST 3RD STREET	HUDSON STREET	SUPERIOR STREET	405	30	1350	\$4,050.00	82
WEST 4TH STREET	LARCHWOOD DRIVE	WESTERN AVENUE	302	51	1711	\$5,133.00	92
WEST 4TH STREET	WESTERN AVENUE	BARTON STREET	349	30	1163	\$3,489.00	89
WEST 5TH STREET	RENSHAW DRIVE (S)	RENSHAW DRIVE (N)	134	48	715	\$2,145.00	93
WEST 5TH STREET	RENSHAW DRIVE (N)	RENSHAW DRIVE (S)	219	48	1168	\$3,504.00	92
WEST 5TH STREET	RENSHAW DRIVE (S)	VISTA DRIVE	366	48	1952	\$5,856.00	88
WEST 5TH STREET	NORTHWESTERN DRIVE	GRAN DRIVE	273	44	1335	\$4,005.00	89
WEST 5TH STREET	GRAN DRIVE	SWALLUM DRIVE	290	34	1096	\$3,288.00	86
WEST 5TH STREET	SWALLUM DRIVE	LARCHWOOD DRIVE	289	34	1092	\$3,276.00	83
WEST 5TH STREET	LARCHWOOD DRIVE	WESTERN AVENUE	307	34	1160	\$3,480.00	80
WEST 6TH STREET	IA 110	RENSHAW DRIVE	585	30	1950	\$5,850.00	88
WEST 7TH STREET	GENESEO STREET	MICHIGAN STREET	350	28	1089	\$3,267.00	86
EAST 7TH STREET	SENECA STREET	ONEIDA STREET	387	30	1290	\$3,870.00	72
EAST 8TH STREET	EVERGREEN AVENUE	GEISINGER ROAD	198	30	660	\$1,980.00	88
EAST 9TH STREET	RUSSELL STREET	NORTH MAE STREET	236	30	787	\$2,361.00	87
EAST 9TH STREET	NORTH WALNUT STREET	EVERGREEN AVENUE	322	30	1073	\$3,219.00	71
EAST 9TH STREET	EVERGREEN AVENUE	GEISINGER ROAD	194	30	647	\$1,941.00	77
WEST 10TH STREET	VESTAL STREET	ONTARIO	1370	31	4719	\$14,157.00	79
WEST 10TH STREET	MICHIGAN STREET	LAKE AVENUE	326	30	1087	\$3,261.00	76
EAST 10TH STREET	NORTH SENECA STREET	ONEIDA STREET (S)	281	30	937	\$2,811.00	83
EAST 10TH STREET	ONEIDA STREET (S)	ONEIDA STREET (N)	148	30	493	\$1,479.00	87
EAST 10TH STREET	ONEIDA STREET (N)	LINCOLN ROAD	433	30	1443	\$4,329.00	93
EAST 10TH STREET	LINCOLN ROAD	MAYWOOD DRIVE	336	30	1120	\$3,360.00	95
EAST 10TH STREET	MAYWOOD DRIVE	RUSSELL STREET	329	30	1097	\$3,291.00	88
EAST 12TH STREET	ONEIDA STREET	12TH STREET PLACE	715	30	2383	\$7,149.00	76
EAST 12TH STREET	12TH STREET PLACE	RUSSELL STREET	343	30	1143	\$3,429.00	70
EAST 13TH STREET	LAKE AVENUE	NORTH ERIE STREET	535	30	1783	\$5,349.00	77
EAST 13TH STREET	NORTH SENECA STREET	MID-BLOCK	106	30	353	\$1,059.00	94
WEST 14TH STREET	SEGMENT END	MICHIGAN STREET	35	30	117	\$351.00	76
590TH STREET	LAKE AVENUE	SEGMENT END	585	40	2600	\$7,800.00	77
BAIR STREET	MID-BLOCK	IRVING STREET	100	26	289	\$867.00	81
BAIR STREET	CAYUGA STREET	SENECA STREET	416	30	1387	\$4,161.00	76
EXPANSION BOULEVARD	EAST RICHLAND STREET	RADIO ROAD	2482	24	6619	\$19,857.00	85
EXPANSION BOULEVARD	RADIO ROAD	GILBERT STREET	3507	24	9352	\$28,056.00	100
EXPANSION BOULEVARD	GILBERT STREET	SEGMENT END	588	24	1568	\$4,704.00	91
LEONA DRIVE	CLOVER LANE	SEGMENT END	450	30	1500	\$4,500.00	84
WEST LAKE SHORE DRIVE	COLLEGE AVENUE	OTSEGO STREET	388	28	1207	\$3,621.00	97
WEST LAKE SHORE DRIVE	OTSEGO STREET	ONTARIO STREET	405	30	1350	\$4,050.00	98
WEST LAKE SHORE DRIVE	ONTARIO STREET	GENESEO STREET	432	30	1440	\$4,320.00	98
WEST LAKE SHORE DRIVE	GENESEO STREET	WEST 1ST STREET	90	30	300	\$900.00	98
WEST LAKE SHORE DRIVE	WEST 1ST STREET	LAKE AVENUE	678	30	2260	\$6,780.00	97
EAST LAKE SHORE DRIVE	IRVING STREET	CAYUGA STREET	330	30	1100	\$3,300.00	90
EAST LAKE SHORE DRIVE	CAYUGA STREET	SENECA STREET	399	28	1241	\$3,723.00	92
EAST LAKE SHORE DRIVE	SENECA STREET	ONEIDA STREET	405	28	1260	\$3,780.00	86
EAST LAKE SHORE DRIVE	ONEIDA STREET	HUDSON STREET (S)	327	28	1017	\$3,051.00	92
EAST LAKE SHORE DRIVE	HUDSON STREET	HUDSON STREET (N)	66	28	205	\$615.00	92
EAST LAKE SHORE DRIVE	HUDSON STREET (N)	SUPERIOR STREET	385	28	1198	\$3,594.00	94
EAST LAKE SHORE DRIVE	SUPERIOR STREET	CHAUTAQUA PARK DRIVE	104	28	324	\$972.00	85
EAST LAKE SHORE DRIVE	CHAUTAQUA PARK DRIVE	RUSSELL STREET	322	28	1002	\$3,006.00	88
EAST LAKE SHORE DRIVE	RUSSELL STREET	MAE STREET	358	28	1114	\$3,342.00	91
EAST LAKE SHORE DRIVE	MAE STREET	KENZY STREET	286	28	890	\$2,670.00	92
EAST LAKE SHORE DRIVE	KENZY STREET	HIGHWAY STREET	311	28	968	\$2,904.00	96
EAST LAKE SHORE DRIVE	HIGHWAY STREET	SEGMENT END	414	28	1288	\$3,864.00	83
LOCHEDEM DRIVE	HIGHVIEW DRIVE	PINECREST DRIVE	279	30	930	\$2,790.00	75
LOCHEDEM DRIVE	PINECREST DRIVE	NORTHWESTERN DRIVE	264	39	1144	\$3,432.00	74
LOCHEDEM DRIVE	COLONIAL CIRCLE	HYLAND DRIVE	252	23	644	\$1,932.00	77
EAST MILWAUKEE AVENUE	GEISINGER ROAD	MID-BLOCK	377	30	1257	\$3,771.00	76
PETERSON DRIVE	PARKVIEW DRIVE	SEGMENT END	43	24	115	\$345.00	74
WEST RAILROAD STREET	GENESEO STREET	MICHIGAN STREET	372	56	2315	\$6,945.00	70
EAST RAILROAD STREET	ERIE STREET	CAYUGA STREET	380	56	2364	\$7,092.00	89
EAST RICHLAND STREET	EXPANSION BOULEVARD	RADIO ROAD	1822	22	4454	\$13,362.00	72
SHOREWAY ROAD	NORTHWESTERN DRIVE	GRAN DRIVE	293	30	977	\$2,931.00	77
SHOREWAY ROAD	GRAN DRIVE	SWALLUM DRIVE	307	30	1023	\$3,069.00	92
SHOREWAY ROAD	SWALLUM DRIVE	MID-BLOCK	249	30	830	\$2,490.00	91
SHOREWAY ROAD	MID-BLOCK	LARCHWOOD DRIVE	63	52	364	\$1,092.00	95



# PAVEMENT MAINTENANCE PROJECTS (BY STREET SEGMENT)

INFRASTRUCTURE MANAGEMENT PLAN  
CITY OF STORM LAKE, IA

Street	From	To	Street Length	Street Width	Pavement Area	Joint Seal & Isolated Patching Estimated Cost (Sq. Yd)	Street Rating (PCI)
			(Ft)	(Ft)	(Sq. Yd)	\$3.00	
<b>North-South Streets (Page 1)</b>							
TULIP LANE	SEGMENT END	EXPANSION BOULEVARD	497	32	1767	\$5,301.00	98
120TH AVENUE	EXPANSION BOULEVARD	LAKESHORE DRIVE	1364	24	3637	\$10,911.00	74
12TH ST PLACE	LINCOLN ROAD	SEGMENT END	301	30	1003	\$3,009.00	84
90TH AVENUE	MILWAUKEE AVE	MID-BLOCK	529	24	1411	\$4,233.00	94
BARTON STREET	WEST 4TH STREET	WEST 5TH STREET	660	24	1760	\$5,280.00	79
COLLEGE AVENUE	WEST 7TH STREET	MILWAUKEE AVE	202	30	673	\$2,019.00	75
COLLEGE AVENUE	WEST 5TH STREET	SEGMENT END	86	25	239	\$717.00	86
COLONIAL CIRCLE	HYLAND DRIVE	LOCHEDEM DRIVE	229	24	611	\$1,833.00	76
COLONIAL CIRCLE	LARCHWOOD DRIVE	LOCHEDEM DRIVE	213	24	568	\$1,704.00	73
COLONIAL CIRCLE	LARCHWOOD DRIVE	SEGMENT END	18	24	48	\$144.00	89
EARLY STREET	WEST 6TH STREET	SEGMENT END	250	30	833	\$2,499.00	70
EMERALD DRIVE	MID-BLOCK	PARLINA LANE	465	30	1550	\$4,650.00	84
ERIE STREET	EAST 7TH STREET	NORTH ERIE STREET	247	51	1400	\$4,200.00	94
ERIE STREET	EAST 6TH STREET	EAST 7TH STREET	485	51	2748	\$8,244.00	99
EVERGREEN AVENUE	SEGMENT END	EAST 9TH STREET	516	30	1720	\$5,160.00	88
EVERGREEN AVENUE	EAST 9TH STREET	EAST 8TH STREET	460	30	1533	\$4,599.00	90
GILBERT STREET	EXPANSION BOULEVARD	SEGMENT END	590	24	1573	\$4,719.00	94
HUDSON STREET	EAST 7TH STREET	MILWAUKEE AVENUE	225	30	750	\$2,250.00	72
HUDSON STREET	EAST 6TH STREET	EAST 7TH STREET	480	30	1600	\$4,800.00	76
HUDSON STREET	EAST 5TH STREET	EAST 4TH STREET	701	30	2337	\$7,011.00	78
HUDSON STREET	EAST 4TH STREET	EAST 3RD STREET	749	30	2497	\$7,491.00	80
LAKE AVENUE	12TH STREET	10TH STREET	1088	44	5319	\$15,957.00	95
LAKE AVENUE	10TH STREET	9TH STREET	543	44	2655	\$7,965.00	92
LAKE AVENUE	9TH STREET	8TH STREET	321	44	1569	\$4,707.00	97
LAKE AVENUE	8TH STREET	8TH STREET	203	44	992	\$2,976.00	97
LAKE AVENUE	8TH STREET	MILWAUKEE AVE	88	44	430	\$1,290.00	97
LAKE AVENUE	6TH STREET	5TH STREET	380	83	3504	\$10,512.00	87
LAKE AVENUE	5TH STREET	RAILROAD STREET	395	83	3643	\$10,929.00	88
LEONA CIRCLE	LEONA DRIVE	MEADOW LANE	647	30	2157	\$6,471.00	72
MAE STREET	EAST 1ST STREET	EAST 3RD STREET	539	30	1797	\$5,391.00	71
MICHIGAN STREET	MILWAUKEE AVENUE	WEST 7TH STREET	237	53	1396	\$4,188.00	86
OLD CREEK ROAD	OLD CREEK ROAD	OLD CREEK ROAD	1722	30	5740	\$17,220.00	91
PARK COURT	WEST 6TH STREET	SEGMENT END	253	20	562	\$1,686.00	74
PIERCE DRIVE	ALVIN PLACE	PARLINA LANE	245	30	817	\$2,451.00	71
PRAIRIE ROAD	PRAIRIE ROAD	SUNDOWN ROAD	139	30	463	\$1,389.00	91
PRAIRIE ROAD	SUNDOWN ROAD	590TH STREET	914	30	3047	\$9,141.00	94
RADIO ROAD	120TH AVENUE	EXPANSION BOULEVARD	1293	24	3448	\$10,344.00	77
RADIO ROAD	RADIO ROAD	RADIO ROAD	2349	24	6264	\$18,792.00	91
RUSSELL STREET	EAST 9TH STREET	EAST 8TH STREET	461	30	1537	\$4,611.00	73
RUSSELL STREET	EAST 8TH STREET	EAST MILWAUKEE AVENUE	297	30	990	\$2,970.00	75
NORTH SENECA STREET	SEGMENT END	EAST 13TH STREET	587	30	1957	\$5,871.00	82
SENECA STREET	MILWAUKEE AVE	EAST 7TH STREET	253	26	731	\$2,193.00	81
SENECA STREET	EAST 6TH STREET	EAST 7TH STREET	483	49	2630	\$7,890.00	98
SENECA STREET	EAST 5TH STREET	EAST 6TH STREET	380	26	1098	\$3,294.00	98
SENECA STREET	EAST 4TH STREET	EAST 5TH STREET	709	26	2048	\$6,144.00	96
SUNRISE PARK ROAD	SUNRISE PARK ROAD	SUNRISE PARK ROAD	475	18	950	\$2,850.00	95
SUNRISE PARK ROAD	SUNRISE PARK ROAD	SUNRISE PARK ROAD	144	31	496	\$1,488.00	93
SUPERIOR STREET	EAST 7TH STREET	EAST 6TH STREET	479	30	1597	\$4,791.00	79
VILAS ROAD	EAST 4TH STREET	EAST RICHLAND STREET	604	30	2013	\$6,039.00	94
VILAS ROAD	EAST RICHLAND STREET	SEGMENT END	728	30	2427	\$7,281.00	89
WINTHROP CIRCLE	WINTHROP CIRCLE	WINTHROP CIRCLE	243	30	810	\$2,430.00	81
WINTHROP CIRCLE	EMERALD DRIVE	SEGMENT END	89	30	297	\$891.00	73
<b>Total Estimated Cost Per 5-Year Life Cycle</b>						<b>\$601,149.00</b>	
<b>Annual Pavement Maintenance Cost</b>						<b>\$120,000.00</b>	

Notes:

- 1) Refer to attached Street Maintenance Map for illustrations of referenced projects.
- 2) Costs presented above are in 2021 dollars.



# PAVEMENT REHABILITATION PROJECTS (BY STREET SEGMENT)

INFRASTRUCTURE MANAGEMENT PLAN  
CITY OF STORM LAKE, IA

Street	From	To	Street Length	Street Width	Pavement Area	Patching & Panel Replacement Estimated Cost (Sq. Yd) (3)	Street Rating (PCI)
			(Ft)	(Ft)	(Sq. Yd)	\$50.00	
<b>East-West Streets (Page 1)</b>							
WEST 1ST STREET	MICHIGAN STREET	WEST LAKE SHORE DRIVE	268	30	893	\$44,650.00	55
WEST 1ST STREET	EAST 1ST STREET	LAKE AVENUE	335	30	1117	\$55,850.00	49
WEST 2ND STREET	GENESEO STREET	MICHIGAN STREET	334	28	1039	\$51,950.00	45
WEST 2ND STREET	MICHIGAN STREET	LAKE AVENUE	337	28	1048	\$52,400.00	44
EAST 2ND STREET	LAKE AVENUE	IRVING STREET	341	28	1061	\$53,050.00	46
EAST 2ND STREET	IRVING STREET	CAYUGA STREET	330	28	1027	\$51,350.00	45
EAST 2ND STREET	CAYUGA STREET	SENECA STREET	389	40	1729	\$86,450.00	46
EAST 3RD STREET	BAIR STREET	HUDSON STREET;	427	30	1423	\$71,150.00	56
EAST 3RD STREET	SUPERIOR STREET	RUSSELL STREET	447	30	1490	\$74,500.00	45
EAST 3RD STREET	RUSSELL STREET	MAE STREET	388	30	1293	\$64,650.00	51
EAST 3RD STREET	MAE STREET	KENZY STREET	389	30	1297	\$64,850.00	54
EAST 3RD STREET	KENZY STREET	HIGHWAY STREET	209	30	697	\$34,850.00	64
EAST 4TH STREET	RUSSELL STREET	OATES STREET	334	30	1113	\$55,650.00	50
WEST 5TH STREET	VISTA DRIVE	ANGIER DRIVE	302	36	1208	\$60,400.00	68
WEST 5TH STREET	ANGIER DRIVE	NORTHWESTERN DRIVE	1178	36	4712	\$235,600.00	68
WEST 5TH STREET	WESTERN AVENUE	BARTON STREET (S)	353	34	1334	\$66,700.00	41
WEST 5TH STREET	BARTON STREET (S)	BARTON STREET (N)	133	34	502	\$25,100.00	69
WEST 5TH STREET	BARTON STREET (N)	TERRENCE STREET	180	34	680	\$34,000.00	49
WEST 5TH STREET	TERRENCE STREET	EARLY STREET	315	34	1190	\$59,500.00	52
WEST 5TH STREET	EARLY STREET	VESTAL STREET	501	34	1893	\$94,650.00	57
WEST 5TH STREET	VESTAL STREET	GRAND AVENUE (S)	197	65	1423	\$71,150.00	56
WEST 5TH STREET	GRAND AVENUE (S)	GRAND AVENUE (N)	211	65	1524	\$76,200.00	52
WEST 5TH STREET	GRAND AVENUE (N)	COLLEGE AVENUE	385	34	1454	\$72,700.00	60
WEST 5TH STREET	COLLEGE AVENUE	BAIR STREET	167	38	705	\$35,250.00	48
WEST 5TH STREET	OTSEGO STREET	ONTARIO STREET	387	37	1591	\$79,550.00	54
WEST 5TH STREET	GENESEO STREET	MICHIGAN STREET	348	61	2359	\$117,950.00	58
EAST 5TH STREET	ERIE STREET	CAYUGA STREET	354	50	1967	\$98,350.00	46
EAST 5TH STREET	CAYUGA STREET	SENECA STREET	385	50	2139	\$106,950.00	48
EAST 5TH STREET	SENECA STREET	ONEIDA STREET	389	37	1599	\$79,950.00	47
EAST 5TH STREET	ONEIDA STREET	HUDSON STREET	389	30	1297	\$64,850.00	47
EAST 5TH STREET	HUDSON STREET	SUPERIOR STREET	382	30	1273	\$63,650.00	47
EAST 5TH STREET	SUPERIOR STREET	RUSSELL STREET	419	30	1397	\$69,850.00	47
WEST 6TH STREET	VESTAL STREET	GRAND AVENUE	442	29	1424	\$71,200.00	45
EAST 6TH STREET	SUPERIOR STREET	RUSSELL STREET	422	30	1407	\$70,350.00	60
EAST 7TH STREET	ERIE STREET	CAYUGA STREET	350	24	933	\$46,650.00	45
EAST 8TH STREET	LAKE AVENUE	NORTH ERIE STREET	341	25	947	\$47,350.00	66
WEST 9TH STREET	NORTH ONTARIO STREET	NORTH ONTARIO STREET	126	30	420	\$21,000.00	52
WEST 9TH STREET	NORTH ONTARIO STREET	WITTER STREET	157	30	523	\$26,150.00	56
WEST 9TH STREET	WITTER STREET	NORTH GENESEO STREET	287	30	957	\$47,850.00	50
WEST 9TH STREET	NORTH GENESEO STREET	MICHIGAN STREET	292	30	973	\$48,650.00	55
WEST 9TH STREET	MICHIGAN STREET	LAKE AVENUE	330	30	1100	\$55,000.00	40
EAST 9TH STREET	NORTH MAE STREET	OAK LANE	285	30	950	\$47,500.00	65
EAST 9TH STREET	OAK LANE	NORTH WALNUT STREET	285	30	950	\$47,500.00	69
EAST 10TH STREET	LAKE AVENUE	NORTH ERIE STREET (S)	348	30	1160	\$58,000.00	62
EAST 10TH STREET	NORTH ERIE STREET (S)	NORTH ERIE STREET (N)	186	30	620	\$31,000.00	52
10TH ST PLACE	MAYWOOD DRIVE	SEGMENT END	328	30	1093	\$54,650.00	59
ALVIN PLACE	KELVIN ROAD	PIERCE DRIVE	309	30	1030	\$51,500.00	54
BAIR STREET	LAKE AVENUE	MID-BLOCK	275	26	794	\$39,700.00	67
BAIR STREET	IRVING STREET	CAYUGA STREET	357	26	1031	\$51,550.00	66
BAIR STREET	SENECA STREET	EAST 3RD STREET	428	30	1427	\$71,350.00	69
CHAUTAQUA PARK DRIVE	CAYUGA STREET	EAST LAKE SHORE DRIVE; HUDSON STREET	1489	24	3971	\$198,550.00	53
CHAUTAQUA PARK DRIVE	EAST LAKE SHORE DRIVE	HUDSON STREET	651	26	1881	\$94,050.00	53
HYLAND DRIVE	IA 110	ANGIER DRIVE	1484	30	4947	\$247,350.00	52
IOWA STREET	EARLY STREET	GRAND AVENUE	695	24	1853	\$92,650.00	45
IOWA STREET	GRAND AVENUE	COLLEGE AVENUE	596	24	1589	\$79,450.00	49
LEONA DRIVE	LEONA CIRCLE	MEADOW LANE	349	30	1163	\$58,150.00	56
LEONA DRIVE	CLOVER LANE	MEADOW LANE	342	30	1140	\$57,000.00	57
WEST LAKE SHORE DRIVE	GRAND AVENUE	COLLEGE AVENUE	645	44	3153	\$157,650.00	57
EAST LAKE SHORE DRIVE	LAKE AVENUE	IRVING STREET	391	30	1303	\$65,150.00	60
LIGHTHOUSE DRIVE	BARTON STREET	TERRENCE STREET	348	30	1160	\$58,000.00	60
LIGHTHOUSE DRIVE	TERRENCE STREET	EARLY STREET	323	30	1077	\$53,850.00	51
LIGHTHOUSE DRIVE	EARLY STREET	SEGMENT END	87	30	290	\$14,500.00	50
LINCOLN ROAD	12TH ST PLACE	RUSSEL STREET	349	30	1163	\$58,150.00	64
LOCHEDEM DRIVE	PLEASANTVIEW DRIVE	HIGHVIEW DRIVE	308	30	1027	\$51,350.00	60
MAYWOOD DRIVE	10TH ST PLACE	SEGMENT END	758	30	2527	\$126,350.00	67
PARLINA LANE	EMERALD DRIVE	PIERCE DRIVE	315	30	1050	\$52,500.00	66
PETERSON DRIVE	GRAND AVENUE	PARKVIEW DRIVE	141	24	376	\$18,800.00	64



# PAVEMENT REHABILITATION PROJECTS (BY STREET SEGMENT)

INFRASTRUCTURE MANAGEMENT PLAN  
CITY OF STORM LAKE, IA

Street	From	To	Street Length	Street Width	Pavement Area	Patching & Panel Replacement Estimated Cost (Sq. Yd) (3)	Street Rating (PCI)
			(Ft)	(Ft)	(Sq. Yd)	\$50.00	
<b>East-West Streets (Page 2)</b>							
WEST RAILROAD STREET	OTSEGO STREET	ONTARIO STREET	416	30	1387	\$69,350.00	44
WEST RAILROAD STREET	ONTARIO STREET	GENESEO STREET	417	36	1668	\$83,400.00	68
WEST RAILROAD STREET	MICHIGAN STREET	LAKE AVENUE	338	56	2103	\$105,150.00	50
EAST RAILROAD STREET	LAKE AVENUE	ERIE STREET	351	56	2184	\$109,200.00	61
EAST RICHLAND STREET	INDUSTRY	EXPANSION BOULEVARD	753	30	2510	\$125,500.00	46
ROSE LANE	SEGMENT END	EXPANSION BOULEVARD	391	30	1303	\$65,150.00	50
ROSE LANE	EXPANSION BOULEVARD	SEGMENT END	698	30	2327	\$116,350.00	68
SHOREWAY ROAD	SEGMENT END	ANGIER DRIVE	146	30	487	\$24,350.00	63
SHOREWAY ROAD	ANGIER DRIVE	NORTHWESTERN DRIVE	1178	30	3927	\$196,350.00	43
TULIP LANE	EXPANSION BOULEVARD	SEGMENT END	702	32	2496	\$124,800.00	67
WEST MARINA ROAD	IA 110	CITY LIMITS	1003	22	2452	\$122,600.00	56
<b>North-South Streets (Page 1)</b>							
120TH AVENUE	LAKESHORE DRIVE	MID-BLOCK	1993	22	4872	\$243,600.00	68
120TH AVENUE	MID-BLOCK	CITY LIMITS	645	22	1577	\$78,850.00	64
ALLEN AVENUE	MAPLE STREET	SEGMENT END	183	30	610	\$30,500.00	63
BARTON STREET	LIGHTHOUSE DRIVE	SEGMENT END	393	30	1310	\$65,500.00	64
BARTON STREET	WEST 5TH STREET	WEST 6TH STREET	398	30	1327	\$66,350.00	58
BARTON STREET	ROCKWELL COURT	SEGMENT END	677	30	2257	\$112,850.00	64
CAYUGA STREET	CHAUTAQUA PARK DRIVE	EAST 1ST STREET	630	30	2100	\$105,000.00	44
COLLEGE AVENUE	WEST 6TH STREET	SEGMENT END	225	24	600	\$30,000.00	51
COLLEGE AVENUE	IOWA STREET	WEST 5TH STREET	347	30	1157	\$57,850.00	53
COLLEGE AVENUE	IOWA STREET	WEST 4TH STREET	357	30	1190	\$59,500.00	48
COLLEGE AVENUE	WEST LAKE SHORE DRIVE	SEGMENT END	405	24	1080	\$54,000.00	61
COLONIAL CIRCLE	LOCHEDEM DRIVE	SEGMENT END	213	24	568	\$28,400.00	64
EARLY STREET	IOWA STREET	WEST 5TH STREET	318	24	848	\$42,400.00	53
EARLY STREET	IOWA STREET	WEST 4TH STREET	343	24	915	\$45,750.00	44
EARLY STREET	LIGHTHOUSE DRIVE	WEST 4TH STREET	566	24	1509	\$75,450.00	54
EMERALD DRIVE	NORTH EMERALD DRIVE	MID-BLOCK	583	30	1943	\$97,150.00	60
EMERALD DRIVE	MID-BLOCK	KELVIN ROAD	92	30	307	\$15,350.00	44
EMERALD DRIVE	KELVIN ROAD	WINTHROP CIRCLE	357	30	1190	\$59,500.00	56
EMERALD DRIVE	PARLINA LANE	SEGMENT END	570	30	1900	\$95,000.00	60
NORTH ERIE STREET	EAST 8TH STREET	EAST 9TH STREET	530	30	1767	\$88,350.00	63
ERIE STREET	EAST 5TH STREET	EAST 6TH STREET	380	57	2407	\$120,350.00	45
GENESEO STREET	WEST RAILROAD STREET	WEST 4TH STREET	564	30	1880	\$94,000.00	44
GENESEO STREET	WEST 4TH STREET	WEST 3RD STREET	564	30	1880	\$94,000.00	42
GENESEO STREET	WEST 3RD STREET	WEST 2ND STREET	577	30	1923	\$96,150.00	46
GRAND AVENUE	IA 7	WEST 7TH STREET	193	30	643	\$32,150.00	49
GRAND AVENUE	WEST 4TH STREET	PETERSON DRIVE	1392	30	4640	\$232,000.00	43
GRAND AVENUE	PETERSON DRIVE	WEST LAKE SHORE DRIVE	267	30	890	\$44,500.00	69
HUDSON STREET	EAST 6TH STREET	EAST 5TH STREET	380	30	1267	\$63,350.00	67
KELVIN ROAD	EMERALD DRIVE	SEGMENT END	104	30	347	\$17,350.00	65
KELVIN ROAD	PIERCE DRIVE	ALVIN PLACE	752	30	2507	\$125,350.00	64
KELVIN ROAD	ALVIN PLACE	PIERCE DRIVE	353	30	1177	\$58,850.00	57
KELVIN ROAD	PIERCE DRIVE	SEGMENT END	342	30	1140	\$57,000.00	61
LAKE AVENUE	590TH STREET	16TH STREET	505	48	2693	\$134,650.00	60
LAKE AVENUE	16TH STREET	14TH STREET	1045	48	5573	\$278,650.00	64
LAKE AVENUE	14TH STREET	13TH STREET	664	48	3541	\$177,050.00	66
LAKE AVENUE	13TH STREET	12TH STREET	657	44	3212	\$160,600.00	69
LAKE AVENUE	BAIR STREET	3RD STREET	534	51	3026	\$151,300.00	47
LAKE AVENUE	3RD STREET	2ND STREET	577	51	3270	\$163,500.00	47
LAKE AVENUE	2ND STREET	1ST STREET	570	51	3230	\$161,500.00	53
LAKE AVENUE	1ST STREET	LAKE SHORE DRIVE	380	49	2069	\$103,450.00	49
LARCHWOOD DRIVE	COLONIAL CIRCLE	WEST 6TH STREET	184	24	491	\$24,550.00	66
MAE STREET	EAST 1ST STREET	EAST LAKE SHORE DRIVE	686	30	2287	\$114,350.00	41
MAYWOOD DRIVE	10TH ST PLACE	EAST 10TH STREET	311	30	1037	\$51,850.00	52
MEADOW LANE	610TH STREET	LEONA DRIVE	985	32	3502	\$175,100.00	63
MEADOW LANE	LEONA CIRCLE	LEONA DRIVE	309	32	1099	\$54,950.00	58
MICHIGAN STREET	WEST 3RD STREET	SEGMENT END	642	20	1427	\$71,350.00	53
MICHIGAN STREET	WEST 3RD STREET	WEST 2ND STREET	577	20	1282	\$64,100.00	40
MICHIGAN STREET	WEST 2ND STREET	WEST 1ST STREET	571	20	1269	\$63,450.00	45
NORTH EMERALD DRIVE	EMERALD DRIVE	SEGMENT END	554	27	1662	\$83,100.00	57
NORTHWESTERN DRIVE	HYLAND DRIVE	LOCHEDEM DRIVE	500	30	1667	\$83,350.00	64
NORTHWESTERN DRIVE	LOCHEDEM DRIVE	WEST 6TH STREET	336	30	1120	\$56,000.00	63
NORTHWESTERN DRIVE	WEST 6TH STREET	WEST 5TH STREET	398	30	1327	\$66,350.00	60
ONEIDA STREET	EAST 10TH STREET	TORNADO DRIVE	1176	30	3920	\$196,000.00	67
ONEIDA STREET	TORNADO DRIVE	MILWAUKEE AVE	153	30	510	\$25,500.00	68
ONEIDA STREET	MILWAUKEE AVE	EAST 7TH STREET	257	31	885	\$44,250.00	52
ONEIDA STREET	EAST 7TH STREET	EAST 6TH STREET	481	31	1657	\$82,850.00	41
ONEIDA STREET	EAST 4TH STREET	BAIR STREET	576	31	1984	\$99,200.00	49



## PAVEMENT REHABILITATION PROJECTS (BY STREET SEGMENT)

INFRASTRUCTURE MANAGEMENT PLAN  
CITY OF STORM LAKE, IA

Street	From	To	Street Length	Street Width	Pavement Area	Patching & Panel Replacement Estimated Cost (Sq. Yd) (3)	Street Rating (PCI)
			(Ft)	(Ft)	(Sq. Yd)	\$50.00	
<b>North-South Streets (Page 2)</b>							
ONTARIO STREET	IA 7	WEST 7TH STREET	222	30	740	\$37,000.00	55
ONTARIO STREET	WEST 7TH STREET	WEST 6TH STREET	496	30	1653	\$82,650.00	61
ONTARIO STREET	WEST 5TH STREET	WEST 4TH STREET	717	30	2390	\$119,500.00	43
ONTARIO STREET	WEST 4TH STREET	WEST 3RD STREET	564	30	1880	\$94,000.00	58
ONTARIO STREET	WEST 2ND STREET	WEST LAKE SHORE DRIVE	374	30	1247	\$62,350.00	40
OTSEGO STREET	SEGMENT END	WEST 7TH STREET	211	30	703	\$35,150.00	63
OTSEGO STREET	WEST 7TH STREET	WEST 6TH STREET	503	24	1341	\$67,050.00	50
OTSEGO STREET	WEST RAILROAD STREET	WEST 6TH STREET	163	30	543	\$27,150.00	66
OTSEGO STREET	WEST 4TH STREET	WEST 3RD STREET	564	30	1880	\$94,000.00	46
OTSEGO STREET	WEST 3RD STREET	WEST 2ND STREET	576	30	1920	\$96,000.00	44
PIERCE DRIVE	KELVIN ROAD	PARLINA LANE	696	30	2320	\$116,000.00	65
PIERCE DRIVE	ALVIN PLACE	SEGMENT END	328	30	1093	\$54,650.00	49
PRAIRIE LANE	PRAIRIE LANE	PRAIRIE LANE	625	28	1944	\$97,200.00	53
RUSSELL STREET	EAST 1ST STREET	BRADFORD STREET	392	30	1307	\$65,350.00	47
RUSSELL STREET	BRADFORD STREET	EAST LAKE SHORE DRIVE	257	30	857	\$42,850.00	48
SENECA STREET	EAST 4TH STREET	SEGMENT END	235	26	679	\$33,950.00	46
SENECA STREET	BAIR STREET	EAST 3RD STREET	172	38	726	\$36,300.00	54
SENECA STREET	EAST 1ST STREET	EAST LAKE SHORE DRIVE	628	26	1814	\$90,700.00	46
SUNRISE PARK ROAD	SUNRISE PARK ROAD	SUNRISE PARK ROAD	3074	23	7856	\$392,800.00	69
SUPERIOR STREET	EAST 6TH STREET	EAST 5TH STREET	380	30	1267	\$63,350.00	68
SUPERIOR STREET	EAST 5TH STREET	EAST 4TH STREET	699	30	2330	\$116,500.00	58
SUPERIOR STREET	EAST 4TH STREET	SEGMENT END	727	30	2423	\$121,150.00	66
SUPERIOR STREET	EAST 1ST STREET	EAST 2ND STREET	569	24	1517	\$75,850.00	44
SUPERIOR STREET	BRADFORD STREET	EAST 1ST STREET	391	30	1303	\$65,150.00	58
SUPERIOR STREET	EAST LAKE SHORE DRIVE	BRADFORD STREET	184	30	613	\$30,650.00	49
TERRENCE STREET	WEST 4TH STREET	WEST 5TH STREET	658	24	1755	\$87,750.00	65
VISTA DRIVE	WEST 5TH STREET	WEST 6TH STREET	388	30	1293	\$64,650.00	58
WESTERN AVENUE	WEST 4TH STREET	WEST 5TH STREET	665	24	1773	\$88,650.00	69
<b>Total Estimated Pavement Rehabilitation Costs</b>						\$13,273,450.00	
<b>Annual Pavement Rehabilitation Cost (10-15 Year Plan)</b>						\$900,000.00 to \$1,300,000.00	

**Notes:**

- 1) Refer to attached Street Maintenance Map for illustrations of referenced projects.
- 2) Costs presented above are in 2021 dollars, including estimated construction, contingency, and engineering.
- 3) Costs based on 20% of pavement surface area requiring repair.
- 4) Prior to pavement rehab project selection, the existing utility condition should be reevaluated for each street segment.



# RECONSTRUCTION PROJECTS (BY STREET SEGMENT)

INFRASTRUCTURE MANAGEMENT PLAN  
CITY OF STORM LAKE, IA

Street	From	To	Street Rating (PCI)	Improvement Length (LF) & Cost								Estimated Total Project Cost (5)	Reconstruction Based On:				
				Street & Site Improvements (2)			Utility Improvements						HIGH VALUE (STREET & UTILITY)	MEDIUM VALUE (STREET & UTILITY)	LOW VALUE (UTILITY DRIVEN)	HIGH VALUE (STREET DRIVEN)	
				31' Street w/Curb (\$775.00)	Additional Width (6) (SY) (\$160.00)	Total Street Cost	Storm Sewer (3) (\$195.00)	Storm Sewer Cost	Sanitary Sewer (4) (\$160.00)	Sanitary Sewer Cost	Watermain (4) (\$165.00)						Watermain Cost
<b>East-West Streets (Page 1)</b>																	
EAST 1ST STREET	LAKE AVENUE	IRVING STREET	45	343		\$265,825.00	343	\$66,885.00	343	\$54,880.00	343	\$56,595.00	\$444,185.00				
EAST 1ST STREET	IRVING STREET	CAYUGA STREET	38	328		\$254,200.00	328	\$63,960.00	328	\$52,480.00	328	\$54,120.00	\$424,760.00				
EAST 1ST STREET	CAYUGA STREET	SENECA STREET	45	394		\$305,350.00	394	\$76,830.00	394	\$63,040.00	394	\$65,010.00	\$510,230.00				
EAST 1ST STREET	SENECA STREET	ONEIDA STREET	54	389		\$301,475.00	389	\$75,855.00	389	\$62,240.00	389	\$64,185.00	\$503,755.00				
EAST 1ST STREET	ONEIDA STREET	HUDSON STREET	42	392		\$303,800.00	392	\$76,440.00	392	\$62,720.00	392	\$64,680.00	\$507,640.00				
EAST 1ST STREET	HUDSON STREET	SUPERIOR STREET	61	377		\$292,175.00	377	\$73,515.00	377	\$60,320.00	377	\$62,205.00	\$488,215.00				
EAST 1ST STREET	SUPERIOR STREET	RUSSELL STREET	65	420		\$325,500.00	420	\$81,900.00	420	\$67,200.00	420	\$69,300.00	\$543,900.00				
EAST 1ST STREET	RUSSELL STREET	MAE STREET	63	361		\$279,775.00	361	\$70,395.00	361	\$57,760.00	361	\$59,565.00	\$467,495.00				
EAST 1ST STREET	MAE STREET	KENZY STREET	69	280		\$217,000.00	280	\$54,600.00	280	\$46,200.00	280	\$46,200.00	\$317,800.00				
EAST 1ST STREET	KENZY STREET	KENZY STREET	69	90		\$69,750.00	90	\$17,550.00			90	\$14,850.00	\$102,150.00				
EAST 1ST STREET	KENZY STREET	HIGHWAY STREET	58	211		\$163,525.00	211	\$41,145.00	211	\$33,760.00	211	\$34,815.00	\$273,245.00				
EAST 1ST STREET	HIGHWAY STREET	SEGMENT END	68	268		\$207,700.00	268	\$52,260.00	268	\$42,880.00	268	\$44,220.00	\$347,060.00				
WEST 2ND STREET	OTSEGO STREET	ONTARIO STREET	36	390		\$302,250.00	390	\$76,050.00	185	\$29,600.00	390	\$64,350.00	\$472,250.00				
WEST 2ND STREET	ONTARIO STREET	GENESEO STREET	46	386		\$299,150.00	386	\$75,270.00	386	\$61,760.00	386	\$63,690.00	\$499,870.00				
EAST 2ND STREET	SENECA STREET	ONEIDA STREET	57	391		\$303,025.00	391	\$76,245.00			391	\$64,515.00	\$443,785.00				
EAST 2ND STREET	ONEIDA STREET	HUDSON STREET	81	390		\$302,250.00	390	\$76,050.00			390	\$64,350.00	\$442,650.00				
EAST 2ND STREET	HUDSON STREET	SUPERIOR STREET	63	378		\$292,950.00	378	\$73,710.00			378	\$62,370.00	\$429,030.00				
WEST 3RD STREET	GENESEO STREET	MICHIGAN STREET	97	334		\$258,850.00	334	\$65,130.00	334	\$53,440.00	334	\$55,110.00	\$432,530.00				
WEST 3RD STREET	MICHIGAN STREET	LAKE AVENUE	97	333	1000	\$418,075.00	333	\$64,935.00	333	\$53,280.00	333	\$54,945.00	\$591,235.00				
WEST 4TH STREET	BARTON STREET	TERRENCE STREET	74	308	30	\$243,500.00	308	\$60,060.00			308	\$50,820.00	\$354,380.00				
WEST 4TH STREET	TERRENCE STREET	EARLY STREET	77	319		\$247,225.00	319	\$62,205.00			319	\$52,635.00	\$362,065.00				
WEST 4TH STREET	EARLY STREET	GRAND AVENUE	43	693		\$537,075.00	693	\$135,135.00	500	\$80,000.00	693	\$114,345.00	\$866,555.00				
WEST 4TH STREET	GRAND AVENUE	MID-BLOCK	62	212		\$164,300.00	212	\$41,340.00	212	\$33,920.00	212	\$34,980.00	\$274,540.00				
WEST 4TH STREET	MID-BLOCK	COLLEGE AVENUE	35	383	810	\$426,425.00	383	\$74,685.00	383	\$61,280.00	383	\$63,195.00	\$625,585.00				
WEST 4TH STREET	COLLEGE AVENUE	OTSEGO STREET	32	384		\$297,600.00	384	\$74,880.00	200	\$32,000.00	384	\$63,360.00	\$467,840.00				
WEST 4TH STREET	OTSEGO STREET	ONTARIO STREET	25	391		\$303,025.00	391	\$76,245.00			391	\$64,515.00	\$443,785.00				
WEST 4TH STREET	ONTARIO STREET	GENESEO STREET	46	388		\$300,700.00	388	\$75,660.00			388	\$64,020.00	\$440,380.00				
EAST 4TH STREET	CAYUGA STREET	SENECA STREET	60	394		\$305,350.00	394	\$76,830.00			394	\$65,010.00	\$447,190.00				
EAST 4TH STREET	SENECA STREET	ONEIDA STREET	38	388		\$300,700.00	388	\$75,660.00			388	\$64,020.00	\$440,380.00				
EAST 4TH STREET	ONEIDA STREET	HUDSON STREET	62	390		\$302,250.00	390	\$76,050.00	390	\$62,400.00	390	\$64,350.00	\$505,050.00				
EAST 4TH STREET	HUDSON STREET	SUPERIOR STREET	49	382		\$296,050.00	382	\$74,490.00	382	\$61,120.00	382	\$63,030.00	\$494,690.00				
EAST 4TH STREET	SUPERIOR STREET	RUSSELL STREET	62	417		\$323,175.00	417	\$81,315.00	417	\$66,720.00	417	\$68,805.00	\$540,015.00				
EAST 4TH STREET	OATES STREET	SKEWIS STREET	62	296		\$229,400.00	296	\$57,720.00	296	\$47,360.00	296	\$48,840.00	\$383,320.00				
EAST 4TH STREET	SKEWIS STREET	GEISINGER ROAD	55	695		\$538,625.00	695	\$135,525.00	695	\$111,200.00	695	\$114,675.00	\$900,025.00				
EAST 4TH STREET	GEISINGER ROAD	VILAS ROAD	19	373		\$289,075.00	373	\$72,735.00	373	\$59,680.00	373	\$61,545.00	\$483,035.00				
EAST 4TH STREET	VILAS ROAD	EXPANSION BOULEVARD	28	1463		\$1,133,825.00	1463	\$285,285.00	1463	\$234,080.00	800	\$132,000.00	\$1,785,190.00				
WEST 5TH STREET	VISTA DRIVE	RENSHAW DRIVE (S)	87	564	48	\$444,780.00	564	\$109,980.00	564	\$90,240.00	564	\$93,060.00	\$738,060.00				
WEST 5TH STREET	BAIR STREET	OTSEGO STREET (N)	20	222	170	\$199,250.00	222	\$43,290.00					\$242,540.00				
WEST 5TH STREET	ONTARIO STREET	GENESEO STREET	52	390	820	\$433,450.00	390	\$76,050.00			390	\$64,350.00	\$573,850.00				
WEST 5TH STREET	MICHIGAN STREET	LAKE AVENUE	39	317	630	\$346,475.00	317	\$61,815.00			190	\$31,350.00	\$439,640.00				
EAST 5TH STREET	LAKE AVENUE	ERIE STREET	57	322	680	\$358,350.00	322	\$62,790.00	322	\$51,520.00	322	\$53,130.00	\$525,790.00				
EAST 5TH STREET	RUSSELL STREET	OATES STREET	47	309		\$239,475.00	309	\$60,255.00			309	\$50,985.00	\$350,715.00				
EAST 5TH STREET	OATES STREET	FLINDT DR	45	600		\$465,000.00	600	\$117,000.00	600	\$96,000.00	600	\$99,000.00	\$777,000.00				
EAST 5TH STREET	FLINDT DR	GEISINGER ROAD	78	414		\$320,850.00	414	\$80,730.00			414	\$68,310.00	\$469,890.00				
WEST 6TH STREET	RENSHAW DRIVE	VISTA DRIVE	67	579		\$448,725.00	579	\$112,905.00	579	\$92,640.00	579	\$95,535.00	\$749,805.00				
WEST 6TH STREET	VISTA DRIVE	ANGIER DRIVE	74	303		\$234,825.00	303	\$59,085.00	303	\$48,480.00	303	\$49,995.00	\$392,385.00				
WEST 6TH STREET	ANGIER DRIVE	PLEASANTVIEW DRIVE	60	323		\$250,325.00	323	\$62,985.00	323	\$51,680.00	323	\$53,295.00	\$418,285.00				
WEST 6TH STREET	NORTHWESTERN DRIVE	MID- BLOCK	71	592		\$458,800.00	592	\$115,440.00	592	\$94,720.00	592	\$97,680.00	\$766,640.00				
WEST 6TH STREET	MID- BLOCK	LARCHWOOD DRIVE	56	256		\$198,400.00	256	\$49,920.00	256	\$40,960.00	256	\$42,240.00	\$331,520.00				
WEST 6TH STREET	LARCHWOOD DRIVE	HYLAND DRIVE	47	374		\$289,850.00	374	\$72,930.00	374	\$59,840.00	374	\$61,710.00	\$484,330.00				
WEST 6TH STREET	HYLAND DRIVE	BARTON STREET	60	422	40	\$333,450.00	422	\$82,290.00	422	\$67,520.00	422	\$69,630.00	\$552,890.00				
WEST 6TH STREET	BARTON STREET	PARK COURT	48	292		\$226,300.00	292	\$56,940.00	292	\$46,720.00	292	\$48,180.00	\$378,140.00				
WEST 6TH STREET	PARK COURT	EARLY STREET	55	202		\$156,550.00	202	\$39,390.00	202	\$32,320.00	202	\$33,330.00	\$261,590.00				
WEST 6TH STREET	EARLY STREET	VESTAL STREET	48	499	24	\$390,565.00	499	\$97,305.00	499	\$79,840.00	499	\$82,335.00	\$650,045.00				



# RECONSTRUCTION PROJECTS (BY STREET SEGMENT)

INFRASTRUCTURE MANAGEMENT PLAN  
CITY OF STORM LAKE, IA

Street	From	To	Street Rating (PCI)	Improvement Length (LF) & Cost									Estimated Total Project Cost (5)	Reconstruction Based On:			
				Street & Site Improvements (2)			Utility Improvements							HIGH VALUE (STREET & UTILITY)	MEDIUM VALUE (STREET & UTILITY)	LOW VALUE (UTILITY DRIVEN)	HIGH VALUE (STREET DRIVEN)
				31' Street w/Curb (\$775.00)	Additional Width (6) (5Y) (\$160.00)	Total Street Cost	Storm Sewer (3) (\$195.00)	Storm Sewer Cost	Sanitary Sewer (4) (\$160.00)	Sanitary Sewer Cost	Watermain (4) (\$165.00)	Watermain Cost					
<b>East-West Streets (Page 2)</b>																	
WEST 6TH STREET	GRAND AVENUE	COLLEGE AVENUE	46	380		\$294,500.00	380	\$74,100.00	380	\$60,800.00	380	\$62,700.00	\$492,100.00				
WEST 6TH STREET	COLLEGE AVENUE	OTSEGO STREET	46	389		\$301,475.00	389	\$75,855.00			389	\$64,185.00	\$441,515.00				
WEST 6TH STREET	OTSEGO STREET	ONTARIO STREET	46	388		\$300,700.00	388	\$75,660.00			388	\$64,020.00	\$440,380.00				
WEST 6TH STREET	ONTARIO STREET	GENESEO STREET	43	391		\$303,025.00	391	\$76,245.00			391	\$64,515.00	\$443,785.00				
WEST 6TH STREET	GENESEO STREET	MICHIGAN STREET	45	346	540	\$354,550.00	346	\$67,470.00			346	\$57,090.00	\$479,110.00				
WEST 6TH STREET	MICHIGAN STREET	LAKE AVENUE	41	323	1010	\$411,925.00	323	\$62,985.00			323	\$53,295.00	\$528,205.00				
EAST 6TH STREET	LAKE AVENUE	ERIE STREET	44	317	59	\$255,115.00	317	\$61,815.00			317	\$52,305.00	\$369,235.00				
EAST 6TH STREET	ERIE STREET	CAYUGA STREET	45	354	51	\$282,510.00	354	\$69,030.00			354	\$58,410.00	\$409,950.00				
EAST 6TH STREET	CAYUGA STREET	SENECA STREET	45	385		\$298,375.00	385	\$75,075.00			385	\$63,525.00	\$436,975.00				
EAST 6TH STREET	SENECA STREET	ONEIDA STREET	56	389		\$301,475.00	389	\$75,855.00			389	\$64,185.00	\$441,515.00				
EAST 6TH STREET	ONEIDA STREET	HUDSON STREET	49	390		\$302,250.00	390	\$76,050.00			390	\$64,350.00	\$442,650.00				
EAST 6TH STREET	HUDSON STREET	SUPERIOR STREET	65	380		\$294,500.00	380	\$74,100.00			380	\$62,700.00	\$431,300.00				
WEST 7TH STREET	VESTAL STREET	GRAND AVENUE	80	421		\$326,275.00	421	\$82,095.00	421	\$67,360.00	421	\$69,465.00	\$545,195.00				
WEST 7TH STREET	GRAND AVENUE	COLLEGE AVENUE	58	381		\$295,275.00	381	\$74,295.00	381	\$60,960.00	381	\$62,865.00	\$493,395.00				
WEST 7TH STREET	COLLEGE AVENUE	OTSEGO STREET	65	388		\$300,700.00	388	\$75,660.00	388	\$62,080.00	388	\$64,020.00	\$502,460.00				
WEST 7TH STREET	OTSEGO STREET	ONTARIO STREET	59	388		\$300,700.00	388	\$75,660.00	388	\$62,080.00	388	\$64,020.00	\$502,460.00				
WEST 7TH STREET	ONTARIO STREET	GENESEO STREET	53	393		\$304,575.00	393	\$76,635.00	393	\$62,880.00	393	\$64,845.00	\$508,935.00				
WEST 7TH STREET	MICHIGAN STREET	LAKE AVENUE	62	326	59	\$262,090.00	326	\$63,570.00			326	\$53,790.00	\$379,450.00				
EAST 7TH STREET	LAKE AVENUE	ERIE STREET	71	310	59	\$249,690.00	310	\$60,450.00			310	\$51,150.00	\$361,290.00				
EAST 7TH STREET	CAYUGA STREET	SENECA STREET	46	390	37	\$308,170.00	390	\$76,050.00			390	\$64,350.00	\$448,570.00				
EAST 7TH STREET	ONEIDA STREET	HUDSON STREET	64	392	30	\$308,600.00	392	\$76,440.00			392	\$64,680.00	\$449,720.00				
EAST 7TH STREET	HUDSON STREET	SUPERIOR STREET	67	375	30	\$295,425.00	375	\$73,125.00	375	\$60,000.00	375	\$61,875.00	\$490,425.00				
EAST 7TH STREET	SUPERIOR STREET	MILWAUKEE AVENUE	65	261		\$202,275.00	261	\$50,895.00	261	\$41,760.00	261	\$43,065.00	\$337,995.00				
EAST 7TH STREET	GEISINGER ROAD	WALNUT LANE	63	393		\$304,575.00	393	\$76,635.00			393	\$64,845.00	\$446,055.00				
EAST 7TH STREET	WALNUT LANE	HICKORY LANE	54	276		\$213,900.00	276	\$53,820.00			276	\$45,540.00	\$313,260.00				
WEST 8TH STREET	VESTAL STREET	NORTH ONTARIO STREET	59	1579	30	\$1,228,525.00	1579	\$307,905.00	1579	\$252,640.00	1579	\$260,535.00	\$2,049,605.00				
WEST 8TH STREET	NORTH ONTARIO STREET	LAKE AVENUE	53	1060		\$821,500.00	1060	\$206,700.00	1060	\$169,600.00	1060	\$174,900.00	\$1,372,700.00				
EAST 8TH STREET	RUSSELL STREET	NORTH MAE STREET	58	233		\$180,575.00	233	\$45,435.00			233	\$38,445.00	\$264,455.00				
EAST 8TH STREET	NORTH MAE STREET	OAK LANE	59	285		\$220,875.00	285	\$55,575.00	285	\$45,600.00	285	\$47,025.00	\$369,075.00				
EAST 8TH STREET	OAK LANE	WALNUT STREET (S)	40	157		\$121,675.00	157	\$30,615.00	157	\$25,120.00	157	\$25,905.00	\$203,315.00				
EAST 8TH STREET	WALNUT STREET (S)	WALNUT STREET (N)	69	128		\$99,200.00	128	\$24,960.00	128	\$20,480.00	128	\$21,120.00	\$165,760.00				
EAST 8TH STREET	WALNUT STREET (N)	EVERGREEN AVENUE	73	320		\$248,000.00	320	\$62,400.00			320	\$52,800.00	\$363,200.00				
WEST 9TH STREET	VESTAL STREET	NORTH ONTARIO STREET	58	1453	30	\$1,130,875.00	1453	\$283,335.00	1453	\$232,480.00	1453	\$239,745.00	\$1,886,435.00				
EAST 9TH STREET	LAKE AVENUE	NORTH ERIE STREET	62	347		\$268,925.00	347	\$67,665.00	347	\$55,520.00	180	\$29,700.00	\$421,810.00				
EAST 9TH STREET	NORTH ERIE STREET	NORTH WINDSOR CIRCLE	55	317		\$245,675.00	317	\$61,815.00	317	\$50,720.00	317	\$52,305.00	\$410,515.00				
EAST 9TH STREET	NORTH WINDSOR CIRCLE	NORTH SENECA STREET	59	431		\$334,025.00	431	\$84,045.00	431	\$68,960.00	431	\$71,115.00	\$558,145.00				
EAST 10TH STREET	NORTH ERIE STREET (N)	SPOONER STREET	62	293		\$227,075.00	293	\$57,135.00	293	\$46,880.00	293	\$48,345.00	\$379,435.00				
EAST 10TH STREET	SPOONER STREET	NORTH SENECA STREET	54	287		\$222,425.00	287	\$55,965.00	287	\$45,920.00	287	\$47,355.00	\$371,665.00				
EAST 12TH STREET	LAKE AVENUE	NORTH ERIE STREET	50	533		\$413,075.00	533	\$103,935.00	360	\$57,600.00	533	\$87,945.00	\$662,555.00				
EAST 12TH STREET	NORTH ERIE STREET	SPOONER STREET	56	294		\$227,850.00	294	\$57,330.00	294	\$47,040.00	294	\$48,510.00	\$380,730.00				
EAST 12TH STREET	SPOONER STREET	NORTH SENECA STREET	59	294		\$227,850.00	294	\$57,330.00	130	\$20,800.00	294	\$48,510.00	\$354,490.00				
WEST 13TH STREET	SEGMENT END	MICHIGAN STREET	85	172	30	\$138,100.00	172	\$33,540.00	172	\$27,520.00	172	\$28,380.00	\$227,540.00				
WEST 13TH STREET	MICHIGAN STREET	LAKE AVENUE	86	488	30	\$383,000.00	488	\$95,160.00	488	\$78,080.00	488	\$80,520.00	\$636,760.00				
EAST 13TH STREET	NORTH ERIE STREET	NORTH SENECA STREET	68	591	30	\$462,825.00	591	\$115,245.00	591	\$94,560.00	591	\$97,515.00	\$770,145.00				



# RECONSTRUCTION PROJECTS (BY STREET SEGMENT)

INFRASTRUCTURE MANAGEMENT PLAN  
CITY OF STORM LAKE, IA

Street	From	To	Street Rating (PCI)	Improvement Length (LF) & Cost									Estimated Total Project Cost (5)	Reconstruction Based On:			
				Street & Site Improvements (2)			Utility Improvements							HIGH VALUE (STREET & UTILITY)	MEDIUM VALUE (STREET & UTILITY)	LOW VALUE (UTILITY DRIVEN)	HIGH VALUE (STREET DRIVEN)
				31' Street w/Curb (\$775.00)	Additional Width (6) (5Y) (\$160.00)	Total Street Cost	Storm Sewer (3) (\$195.00)	Storm Sewer Cost	Sanitary Sewer (4) (\$160.00)	Sanitary Sewer Cost	Watermain (4) (\$165.00)	Watermain Cost					
<b>East-West Streets (Page 3)</b>																	
WEST 14TH STREET	MICHIGAN STREET	LAKE AVENUE	78	491	30	\$385,325.00	491	\$95,745.00			491	\$81,015.00	\$562,085.00				
EAST 16TH STREET	LAKE AVENUE	SEGMENT END	81	495	30	\$388,425.00	495	\$96,525.00	495	\$79,200.00	495	\$81,675.00	\$645,825.00				
610TH STREET	MID-BLOCK	MEADOW LANE	56	224	23	\$177,280.00	224	\$43,680.00	224	\$35,840.00	224	\$36,960.00	\$293,760.00				
610TH STREET	MEADOW LANE	MID-BLOCK	60	136	23	\$109,080.00	136	\$26,520.00	136	\$21,760.00	136	\$22,440.00	\$179,800.00				
BRADFORD STREET	RUSSELL STREET	SUPERIOR STREET	48	419		\$324,725.00	419	\$81,705.00	419	\$67,040.00	419	\$69,135.00	\$542,605.00				
EMERALD DRIVE	NORTH EMERALD DRIVE	IA 110	52	406	32	\$319,770.00	406	\$79,170.00	406	\$64,960.00	406	\$66,990.00	\$530,890.00				
HYLAND DRIVE	ANGIER DRIVE	PLEASANTVIEW DRIVE	67	312	30	\$246,600.00	312	\$60,840.00			312	\$51,480.00	\$358,920.00				
HYLAND DRIVE	PLEASANTVIEW DRIVE	HIGHVIEW DRIVE	66	291	30	\$230,325.00	291	\$56,745.00			291	\$48,015.00	\$335,085.00				
HYLAND DRIVE	HIGHVIEW DRIVE	PINECREST DRIVE	60	244	30	\$193,900.00	244	\$47,580.00			244	\$40,260.00	\$281,740.00				
HYLAND DRIVE	PINECREST DRIVE	NORTHWESTERN DRIVE	56	263	31	\$208,785.00	263	\$51,285.00			263	\$43,395.00	\$303,465.00				
HYLAND DRIVE	NORTHWESTERN DRIVE	GREENWOOD DRIVE	58	319	30	\$252,025.00	319	\$62,205.00	319	\$51,040.00	319	\$52,635.00	\$417,905.00				
HYLAND DRIVE	GREENWOOD DRIVE	COLONIAL CIRCLE	60	446	30	\$350,450.00	446	\$86,970.00	446	\$71,360.00	446	\$73,590.00	\$582,370.00				
HYLAND DRIVE	COLONIAL CIRCLE	COLONIAL CIRCLE	63	231	30	\$183,825.00	231	\$45,045.00	231	\$36,960.00	231	\$38,115.00	\$303,945.00				
HYLAND DRIVE	COLONIAL CIRCLE	LOCHEDEM DRIVE	59	427	30	\$335,725.00	427	\$83,265.00	427	\$68,320.00	427	\$70,455.00	\$557,765.00				
LOCHEDEM DRIVE	NORTHWESTERN DRIVE	GREENWOOD DRIVE	59	317		\$245,675.00	317	\$61,815.00	317	\$50,720.00	317	\$52,305.00	\$410,515.00				
LOCHEDEM DRIVE	GREENWOOD DRIVE	COLONIAL CIRCLE	56	365	30	\$287,675.00	365	\$71,175.00	365	\$58,400.00	365	\$60,225.00	\$477,475.00				
MAPLE STREET	ALLEN STREET	NORTHWESTERN DRIVE	70	812		\$629,300.00	812	\$158,340.00	812	\$129,920.00	812	\$133,980.00	\$1,051,540.00				
EAST MILWAUKEE AVENUE	RUSSELL STREET	NORTH WALNUT STREET	56	680		\$527,000.00	680	\$132,600.00	680	\$108,800.00	680	\$112,200.00	\$880,600.00				
EAST MILWAUKEE AVENUE	NORTH WALNUT STREET	GEISINGER ROAD	68	638		\$494,450.00	638	\$124,410.00	638	\$102,080.00	638	\$105,270.00	\$826,210.00				
PARK STREET	HIGHWAY STREET	FLINDT DRIVE	67	378		\$292,950.00	378	\$73,710.00	378	\$60,480.00			\$427,140.00				
PARK STREET	FLINDT DRIVE	DORINDA STREET	48	178	30	\$142,750.00	178	\$34,710.00	178	\$28,480.00			\$205,940.00				
PARK STREET	DORINDA STREET	PHILLIPS STREET	63	263	30	\$208,625.00	263	\$51,285.00	263	\$42,080.00			\$301,990.00				
PARK STREET	PHILLIPS STREET	ROBERTS STREET	63	267	30	\$211,725.00	267	\$52,065.00	267	\$42,720.00			\$306,510.00				
PARK STREET	ROBERTS STREET	SEGMENT END	64	248	30	\$197,000.00	248	\$48,360.00	248	\$39,680.00			\$285,040.00				
POPLAR LANE	GEISINGER ROAD	WALNUT LANE	45	282		\$218,550.00	282	\$54,990.00	282	\$45,120.00	282	\$46,530.00	\$365,190.00				
POPLAR LANE	WALNUT LANE	HICKORY LANE	34	285		\$220,875.00	285	\$55,575.00	285	\$45,600.00	285	\$47,025.00	\$369,075.00				
RENSHAW DRIVE	WEST 5TH STREET	SEGMENT END	55	1108		\$858,700.00	1108	\$216,060.00	650	\$104,000.00	700	\$115,500.00	\$1,294,260.00				
EAST RICHLAND STREET	FLINDT RIVE	VILAS ROAD	83	381		\$295,275.00	381	\$74,295.00			381	\$62,865.00	\$432,435.00				
EAST RICHLAND STREET	VILAS ROAD	INDUSTRY	89	1038		\$804,450.00	1038	\$202,410.00			1038	\$171,270.00	\$1,178,130.00				
ROCKWELL COURT	BARTON STREET	SEGMENT END	63	265		\$205,375.00	265	\$51,675.00			265	\$43,725.00	\$300,775.00				
TORNADO DRIVE	RUSSELL STREET	ONEIDA STREET	37	1206		\$934,650.00	1206	\$235,170.00			350	\$57,750.00	\$1,227,570.00				
VIOLET LANE	EXPANSION BOULEVARD	SEGMENT END	54	489	30	\$383,775.00	489	\$95,355.00	489	\$78,240.00	489	\$80,685.00	\$638,055.00				
VIOLET LANE	EXPANSION BOULEVARD	SEGMENT END	65	489	30	\$383,775.00	489	\$95,355.00	489	\$78,240.00	489	\$80,685.00	\$638,055.00				
VISTA DRIVE	WEST 5TH STREET	SEGMENT END	36	2110		\$1,635,250.00	2110	\$411,450.00	2110	\$337,600.00	2110	\$348,150.00	\$2,732,450.00				
WALNUT STREET	NORTH WALNUT STREET	LINDEN LANE	51	302		\$234,050.00	302	\$58,890.00			302	\$49,830.00	\$342,770.00				
WALNUT STREET	LINDEN LANE	GEISINGER ROAD	59	343		\$265,825.00	343	\$66,885.00	343	\$54,880.00	343	\$56,595.00	\$444,185.00				
NORTH WINDSOR CIRCLE	EAST 9TH STREET	NORTH SENECA STREET	73	700		\$542,500.00	700	\$136,500.00	700	\$112,000.00	700	\$115,500.00	\$906,500.00				
SOUTH WINDSOR CIRCLE	EAST 9TH STREET	NORTH SENECA STREET	67	714		\$553,350.00	714	\$139,230.00	714	\$114,240.00	714	\$117,810.00	\$924,630.00				



# RECONSTRUCTION PROJECTS (BY STREET SEGMENT)

INFRASTRUCTURE MANAGEMENT PLAN  
CITY OF STORM LAKE, IA

Street	From	To	Street Rating (PCI)	Improvement Length (LF) & Cost									Estimated Total Project Cost (5)	Reconstruction Based On:			
				Street & Site Improvements (2)			Utility Improvements							HIGH VALUE (STREET & UTILITY)	MEDIUM VALUE (STREET & UTILITY)	LOW VALUE (UTILITY DRIVEN)	HIGH VALUE (STREET DRIVEN)
				31' Street w/Curb (\$775.00)	Additional Width (6) (5Y) (\$160.00)	Total Street Cost	Storm Sewer (3) (\$195.00)	Storm Sewer Cost	Sanitary Sewer (4) (\$160.00)	Sanitary Sewer Cost	Watermain (4) (\$165.00)	Watermain Cost					
<b>North-South Streets (Page 1)</b>																	
ANGIER DRIVE	SHOREWAY ROAD	WEST 5TH STREET	48	422	30	\$331,850.00	422	\$82,290.00	422	\$67,520.00	422	\$69,630.00	\$551,290.00				
ANGIER DRIVE	HYLAND DRIVE	WEST 6TH STREET	63	854	30	\$666,650.00	854	\$166,530.00	854	\$136,640.00	854	\$140,910.00	\$1,110,730.00				
ANGIER DRIVE	HYLAND DRIVE	SEGMENT END	66	600	30	\$469,800.00	600	\$117,000.00	600	\$96,000.00	600	\$99,000.00	\$781,800.00				
BARTON STREET	ROCKWELL COURT	WEST 6TH STREET	52	386		\$299,150.00	386	\$75,270.00	386	\$61,760.00	386	\$63,690.00	\$499,870.00				
CAYUGA STREET	EAST 6TH STREET	EAST 7TH STREET	45	484		\$375,100.00	484	\$94,380.00	484	\$77,440.00	484	\$79,860.00	\$626,780.00				
CAYUGA STREET	EAST 5TH STREET	EAST 6TH STREET	46	379	1470	\$528,925.00	379	\$73,905.00	379	\$60,640.00	379	\$62,535.00	\$726,005.00				
CAYUGA STREET	BAIR STREET	EAST 4TH STREET	30	282	690	\$328,950.00	282	\$54,990.00	282	\$46,530.00	282	\$46,530.00	\$430,470.00				
CAYUGA STREET	BAIR STREET	SEGMENT END	66	62	140	\$70,450.00	62	\$12,090.00	62	\$9,920.00	62	\$10,230.00	\$102,690.00				
CAYUGA STREET	EAST 4TH STREET	EAST 5TH STREET	45	671	1490	\$758,425.00	671	\$130,845.00	671	\$107,360.00	671	\$110,715.00	\$1,107,345.00				
CAYUGA STREET	BAIR STREET	EAST 3RD STREET	42	259	580	\$293,525.00	259	\$50,505.00	259	\$41,440.00	259	\$42,735.00	\$428,205.00				
CAYUGA STREET	EAST 3RD STREET	EAST 2ND STREET	42	574	770	\$568,050.00	574	\$111,930.00	574	\$91,840.00	574	\$94,710.00	\$866,530.00				
CAYUGA STREET	EAST 1ST STREET	EAST 2ND STREET	41	570		\$441,750.00	570	\$111,150.00	570	\$91,200.00	570	\$94,050.00	\$738,150.00				
CLOVER LANE	EMERALD DRIVE	LEONA DRIVE	39	983	30	\$766,625.00	983	\$191,685.00	1883	\$301,280.00	983	\$162,195.00	\$1,421,785.00				
CLOVER LANE	LEONA DRIVE	SEGMENT END	17	490		\$379,750.00	490	\$95,550.00	490	\$78,400.00	490	\$80,850.00	\$634,550.00				
COLLEGE AVENUE	WEST 6TH STREET	WEST 7TH STREET	66	511		\$396,025.00	511	\$99,645.00	511	\$81,760.00	511	\$84,315.00	\$661,745.00				
COLLEGE AVENUE	WEST 3RD STREET	WEST 4TH STREET	33	563	500	\$516,325.00	563	\$109,785.00			400	\$66,000.00	\$692,110.00				
COLLEGE AVENUE	WEST 3RD STREET	WEST LAKE SHORE DRIVE	54	808	990	\$784,600.00	808	\$157,560.00	808	\$129,280.00	808	\$133,320.00	\$1,204,760.00				
COLONIAL CIRCLE	HYLAND DRIVE	LOCHEDEM DRIVE	65	327		\$253,425.00	327	\$63,765.00	200	\$32,000.00	327	\$53,955.00	\$403,145.00				
DORINDA STREET	PARK STREET	DEAD END	61	487		\$377,425.00	487	\$94,965.00	487	\$77,920.00	487	\$80,355.00	\$630,665.00				
EARLY STREET	WEST 5TH STREET	WEST 6TH STREET	49	399	24	\$313,065.00	399	\$77,805.00			399	\$65,835.00	\$456,705.00				
ELMWOOD DRIVE	MILWAUKEE AVE	SEGMENT END	66	473		\$366,575.00	473	\$92,235.00	473	\$75,680.00	473	\$78,045.00	\$612,535.00				
EMERALD DRIVE	WINTHROP CIRCLE	MID-BLOCK	36	157		\$121,675.00	157	\$30,615.00	157	\$25,120.00	157	\$25,905.00	\$203,315.00				
NORTH ERIE STREET	EAST 12TH STREET	EAST 13TH STREET	56	581		\$450,275.00	581	\$113,295.00	581	\$92,960.00	581	\$95,865.00	\$752,395.00				
NORTH ERIE STREET	EAST 12TH STREET	SEGMENT END	50	91		\$70,525.00	91	\$17,745.00	91	\$14,560.00	91	\$15,015.00	\$117,845.00				
NORTH ERIE STREET	EAST 10TH STREET	EAST 12TH STREET	61	1082		\$838,550.00	1082	\$210,990.00	1082	\$173,120.00	1082	\$178,530.00	\$1,401,190.00				
NORTH ERIE STREET	EAST 10TH STREET	EAST 9TH STREET	52	543		\$420,825.00	543	\$105,885.00	543	\$86,880.00	543	\$89,595.00	\$703,185.00				
NORTH ERIE STREET	EAST 8TH STREET	ERIE STREET	39	239	30	\$190,025.00	239	\$46,605.00					\$236,630.00				
ERIE STREET	EAST 5TH STREET	EAST RAILROAD STREET	55	530	1770	\$693,950.00	530	\$103,350.00	530	\$84,800.00	530	\$87,450.00	\$969,550.00				
EXPANSION BOULEVARD	VIOLET LANE	TULIP LANE	56	298	30	\$235,750.00	298	\$58,110.00	298	\$47,680.00	298	\$49,170.00	\$390,710.00				
EXPANSION BOULEVARD	TULIP LANE	ROSE LANE	86	302	30	\$238,850.00	302	\$58,890.00	302	\$48,320.00	302	\$49,830.00	\$395,890.00				
EXPANSION BOULEVARD	ROSE LANE	EAST 4TH STREET	83	188	30	\$150,500.00	188	\$36,660.00	188	\$30,080.00	188	\$31,020.00	\$248,260.00				
EXPANSION BOULEVARD	EAST 4TH STREET	EAST RICHLAND STREET	40	707	23	\$551,605.00	707	\$137,865.00	707	\$113,120.00	707	\$116,655.00	\$919,245.00				
GEISINGER ROAD	MILWAUKEE AVENUE	EAST 7TH STREET	49	354		\$274,350.00	354	\$69,030.00	354	\$56,640.00	354	\$58,410.00	\$458,430.00				
GEISINGER ROAD	EAST 7TH STREET	WALNUT STREET	45	179		\$138,725.00	179	\$34,905.00	179	\$28,640.00	179	\$29,535.00	\$231,805.00				
GEISINGER ROAD	WALNUT STREET	POPLAR LANE	63	221		\$171,275.00	221	\$43,095.00	221	\$35,360.00	221	\$36,465.00	\$286,195.00				
GEISINGER ROAD	POPLAR LANE	EAST 5TH STREET	41	303		\$234,825.00	303	\$59,085.00	303	\$48,480.00	303	\$49,995.00	\$392,385.00				
GEISINGER ROAD	EAST 5TH STREET	EAST 4TH STREET	45	752		\$582,800.00	752	\$146,640.00	752	\$120,320.00	752	\$124,080.00	\$973,840.00				
NORTH GENESEO STREET	WEST 10TH STREET	WEST 9TH STREET	42	505		\$391,375.00	505	\$98,475.00	505	\$80,800.00	505	\$83,325.00	\$653,975.00				
GENESEO STREET	WEST 7TH STREET	IA 7	73	232		\$179,800.00	232	\$45,240.00	232	\$37,120.00	232	\$38,280.00	\$300,440.00				
GENESEO STREET	WEST 7TH STREET	WEST 6TH STREET	38	489		\$378,975.00	489	\$95,355.00	489	\$78,240.00	489	\$80,685.00	\$633,255.00				
GENESEO STREET	WEST 6TH STREET	WEST 5TH STREET	49	381	1310	\$504,875.00	381	\$74,295.00	381	\$60,960.00	381	\$62,865.00	\$702,995.00				
GENESEO STREET	WEST 5TH STREET	WEST RAILROAD STREET	49	142	270	\$153,250.00	142	\$27,690.00	142	\$22,720.00	142	\$23,430.00	\$227,090.00				
GENESEO STREET	WEST 2ND STREET	WEST LAKE SHORE DRIVE	38	567		\$439,425.00	567	\$110,565.00	300	\$48,000.00	567	\$93,555.00	\$691,545.00				
GRAN DRIVE	SHOREWAY ROAD	WEST 5TH STREET	59	491		\$380,525.00	491	\$95,745.00	491	\$78,560.00	491	\$81,015.00	\$635,845.00				



# RECONSTRUCTION PROJECTS (BY STREET SEGMENT)

INFRASTRUCTURE MANAGEMENT PLAN  
CITY OF STORM LAKE, IA

Street	From	To	Street Rating (PCI)	Improvement Length (LF) & Cost								Estimated Total Project Cost (5)	Reconstruction Based On:				
				Street & Site Improvements (2)			Utility Improvements						HIGH VALUE (STREET & UTILITY)	MEDIUM VALUE (STREET & UTILITY)	LOW VALUE (UTILITY DRIVEN)	HIGH VALUE (STREET DRIVEN)	
				31' Street w/Curb (\$775.00)	Additional Width (6) (5Y) (\$160.00)	Total Street Cost	Storm Sewer (3) (\$195.00)	Storm Sewer Cost	Sanitary Sewer (4) (\$160.00)	Sanitary Sewer Cost	Watermain (4) (\$165.00)						Watermain Cost
<b>North-South Streets (Page 2)</b>																	
GRAND AVENUE	WEST 7TH STREET	WEST 6TH STREET	59	518		\$401,450.00	518	\$101,010.00	370	\$59,200.00	518	\$85,470.00	\$647,130.00				
GRAND AVENUE	SEGMENT END	WEST 5TH STREET	44	213		\$165,075.00	213	\$41,535.00			213	\$35,145.00	\$241,755.00				
GRAND AVENUE	WEST 5TH STREET	IOWA STREET	46	345		\$267,375.00	345	\$67,275.00	345	\$55,200.00	345	\$56,925.00	\$446,775.00				
GRAND AVENUE	IOWA STREET	WEST 4TH STREET	48	347		\$268,925.00	347	\$67,665.00	347	\$55,520.00	347	\$57,255.00	\$449,365.00				
GREENWOOD DRIVE	HYLAND DRIVE	LOCHEDEM DRIVE	70	480		\$372,000.00	480	\$93,600.00	480	\$76,800.00	480	\$79,200.00	\$621,600.00				
HICKORY LANE	EAST 7TH STREET	POPLAR LANE	49	611		\$473,525.00	611	\$119,145.00	611	\$97,760.00	611	\$100,815.00	\$791,245.00				
HIGHVIEW DRIVE	SEGMENT END	HYLAND DRIVE	48	429		\$332,475.00	429	\$83,655.00	429	\$68,640.00	429	\$70,785.00	\$555,555.00				
HIGHVIEW DRIVE	HYLAND DRIVE	LOCHEDEM DRIVE	69	510		\$395,250.00	510	\$99,450.00	510	\$81,600.00	510	\$84,150.00	\$660,450.00				
HIGHVIEW DRIVE	LOCHEDEM DRIVE	SEGMENT END	57	253		\$196,075.00	253	\$49,335.00	253	\$40,480.00	253	\$41,745.00	\$327,635.00				
HIGHWAY STREET	EAST 3RD STREET	EAST 1ST STREET	68	351		\$272,025.00	351	\$68,445.00	351	\$56,160.00	351	\$57,915.00	\$454,545.00				
HIGHWAY STREET	EAST 1ST STREET	PARK STREET	69	293		\$227,075.00	293	\$57,135.00	293	\$46,880.00	293	\$48,345.00	\$379,435.00				
HIGHWAY STREET	PARK STREET	EAST LAKE SHORE DRIVE	40	531		\$411,525.00	531	\$103,545.00	531	\$84,960.00	531	\$87,615.00	\$687,645.00				
HUDSON STREET	EAST 3RD STREET	EAST 2ND STREET	61	400		\$310,000.00	400	\$78,000.00	400	\$64,000.00	400	\$66,000.00	\$518,000.00				
HUDSON STREET	EAST 2ND STREET	EAST 1ST STREET	50	569		\$440,975.00	569	\$110,955.00	569	\$91,040.00	569	\$93,885.00	\$736,855.00				
HUDSON STREET	EAST 1ST STREET	EAST LAKE SHORE DRIVE	43	521		\$403,775.00	521	\$101,595.00	410	\$65,600.00	521	\$85,965.00	\$656,935.00				
HUDSON STREET	CHAUTAQUA PARK DRIVE	EAST LAKE SHORE DRIVE	54	393		\$304,575.00	393	\$76,635.00			200	\$33,000.00	\$414,210.00				
HYLAND DRIVE	LOCHEDEM DRIVE	WEST 6TH STREET	35	329		\$254,975.00	329	\$64,155.00	329	\$52,640.00	329	\$54,285.00	\$426,055.00				
IRVING STREET	BAIR STREET	EAST 3RD STREET	44	392		\$303,800.00	392	\$76,440.00	392	\$62,720.00	392	\$64,680.00	\$507,640.00				
IRVING STREET	EAST 3RD STREET	EAST 2ND STREET	52	577		\$447,175.00	577	\$112,515.00	577	\$92,320.00	577	\$95,205.00	\$747,215.00				
IRVING STREET	EAST 2ND STREET	EAST 1ST STREET	47	570		\$441,750.00	570	\$111,150.00	570	\$91,200.00	570	\$94,050.00	\$738,150.00				
IRVING STREET	EAST 1ST STREET	EAST LAKE SHORE DRIVE	24	561		\$434,775.00	561	\$109,395.00	561	\$89,760.00	561	\$92,565.00	\$726,495.00				
KENZY STREET	EAST 3RD STREET	EAST 1ST STREET	71	419		\$324,725.00	419	\$81,705.00	419	\$67,040.00	419	\$69,135.00	\$542,605.00				
KENZY STREET	EAST 1ST STREET	EAST LAKE SHORE DRIVE	63	727		\$563,425.00	727	\$141,765.00	450	\$72,000.00	727	\$119,955.00	\$897,145.00				
LAKE AVENUE	7TH STREET	7TH STREET	50	398	2300	\$676,450.00	398	\$77,610.00	398	\$63,680.00	398	\$65,670.00	\$883,410.00				
LAKE AVENUE	7TH STREET	6TH STREET	90	486	2810	\$826,250.00	486	\$94,770.00	486	\$77,760.00	486	\$80,190.00	\$1,078,970.00				
LAKE AVENUE	RAILROAD STREET	BAIR STREET	36	342	720	\$380,250.00	342	\$66,690.00	342	\$54,720.00	342	\$56,430.00	\$558,090.00				
LARCHWOOD DRIVE	WEST 6TH STREET	WEST 5TH STREET	57	398	24	\$312,290.00	398	\$77,610.00	398	\$63,680.00	398	\$65,670.00	\$519,250.00				
LARCHWOOD DRIVE	WEST 5TH STREET	SHOREWAY ROAD	64	668	28	\$522,180.00	668	\$130,260.00	668	\$106,880.00	668	\$110,220.00	\$869,540.00				
LINCOLN ROAD	12TH ST PLACE	SEGMENT END	66	1302		\$1,009,050.00	1302	\$253,890.00	1302	\$208,320.00	1302	\$214,830.00	\$1,686,090.00				
LINDEN LANE	WALNUT STREET	SEGMENT END	67	263		\$203,825.00	263	\$51,285.00	263	\$42,080.00	263	\$43,395.00	\$340,585.00				
NORTH MAE STREET	SEGMENT END	EAST 9TH STREET	64	520		\$403,000.00	520	\$101,400.00	520	\$83,200.00	520	\$85,800.00	\$673,400.00				
NORTH MAE STREET	EAST 9TH STREET	EAST 8TH STREET	60	458		\$354,950.00	458	\$89,310.00	458	\$73,280.00	458	\$75,570.00	\$593,110.00				
MICHIGAN STREET	WEST 14TH STREET	WEST 13TH STREET	82	673	30	\$526,375.00	673	\$131,235.00	673	\$107,680.00	673	\$111,045.00	\$876,335.00				
MICHIGAN STREET	WEST 13TH STREET	SEGMENT END	79	421	30	\$331,075.00	421	\$82,095.00	421	\$67,360.00	421	\$69,465.00	\$549,995.00				
MICHIGAN STREET	WEST 10TH STREET	WEST 9TH STREET	62	506		\$392,150.00	506	\$98,670.00	506	\$80,960.00	506	\$83,490.00	\$655,270.00				
MICHIGAN STREET	WEST 7TH STREET	MID-BLOCK	89	359	680	\$387,025.00	359	\$70,005.00	359	\$57,440.00	359	\$59,235.00	\$573,705.00				
MICHIGAN STREET	MID-BLOCK	WEST 6TH STREET	97	128	410	\$164,800.00	128	\$24,960.00	128	\$20,480.00	128	\$21,120.00	\$231,360.00				
MICHIGAN STREET	WEST 6TH STREET	WEST 5TH STREET	45	381	1310	\$504,875.00	381	\$74,295.00	381	\$60,960.00	381	\$62,865.00	\$702,995.00				
MICHIGAN STREET	WEST 5TH STREET	WEST RAILROAD STREET	40	272	940	\$361,200.00	272	\$53,040.00	272	\$43,520.00	272	\$44,880.00	\$502,640.00				
NORTH WALNUT STREET	SEGMENT END	EAST 9TH STREET	66	510		\$395,250.00	510	\$99,450.00	510	\$81,600.00	510	\$84,150.00	\$660,450.00				
NORTH WALNUT STREET	EAST 9TH STREET	EAST 8TH STREET	52	459		\$355,725.00	459	\$89,505.00	459	\$73,440.00	459	\$75,735.00	\$594,405.00				
NORTH WALNUT STREET	EAST 8TH STREET	EAST MILWAUKEE AVENUE	62	315		\$244,125.00	315	\$61,425.00			315	\$51,975.00	\$357,525.00				
NORTH WALNUT STREET	EAST MILWAUKEE AVENUE	WALNUT STREET	47	480		\$372,000.00	480	\$93,600.00	480	\$76,800.00	480	\$79,200.00	\$621,600.00				



# RECONSTRUCTION PROJECTS (BY STREET SEGMENT)

INFRASTRUCTURE MANAGEMENT PLAN  
CITY OF STORM LAKE, IA

Street	From	To	Street Rating (PCI)	Improvement Length (LF) & Cost									Estimated Total Project Cost (5)	Reconstruction Based On:			
				Street & Site Improvements (2)			Utility Improvements							HIGH VALUE (STREET & UTILITY)	MEDIUM VALUE (STREET & UTILITY)	LOW VALUE (UTILITY DRIVEN)	HIGH VALUE (STREET DRIVEN)
				31' Street w/Curb	Additional Width (6) (5Y)	Total Street Cost	Storm Sewer (3)	Storm Sewer Cost	Sanitary Sewer (4)	Sanitary Sewer Cost	Watermain (4)	Watermain Cost					
<b>North-South Streets (Page 3)</b>																	
NORTHWESTERN DRIVE	SEGMENT END	HYLAND DRIVE	68	661		\$512,275.00	661	\$128,895.00	170	\$27,200.00	170	\$28,050.00	\$696,420.00				
NORTHWESTERN DRIVE	WEST 5TH STREET	SHOREWAY ROAD	40	398		\$308,450.00	398	\$77,610.00	350	\$56,000.00	398	\$65,670.00	\$507,730.00				
OAK LANE	SEGMENT END	EAST 9TH STREET	67	510		\$395,250.00	510	\$99,450.00	510	\$81,600.00	510	\$84,150.00	\$660,450.00				
OAK LANE	EAST 9TH STREET	EAST 8TH STREET	63	457		\$354,175.00	457	\$89,115.00	457	\$73,120.00	457	\$75,405.00	\$591,815.00				
OATES STREET	EAST 4TH STREET	EAST 5TH STREET	85	747		\$578,925.00	747	\$145,665.00	747	\$119,520.00	747	\$123,255.00	\$967,365.00				
ONEIDA STREET	MID-BLOCK	EAST 12TH STREET	72	145	30	\$117,175.00	145	\$28,275.00	145	\$23,200.00	145	\$23,925.00	\$192,575.00				
ONEIDA STREET	EAST 12TH STREET	EAST 10TH STREET	65	1181		\$915,275.00	1181	\$230,295.00	1181	\$188,960.00	1181	\$194,865.00	\$1,529,395.00				
ONEIDA STREET	EAST 6TH STREET	EAST 5TH STREET	22	380		\$294,500.00	380	\$74,100.00			380	\$62,700.00	\$431,300.00				
ONEIDA STREET	EAST 5TH STREET	EAST 4TH STREET	28	704		\$545,600.00	704	\$137,280.00			704	\$116,160.00	\$799,040.00				
ONEIDA STREET	BAIR STREET	EAST 2ND STREET	35	570		\$441,750.00	570	\$111,150.00	570	\$91,200.00	570	\$94,050.00	\$738,150.00				
ONEIDA STREET	EAST 2ND STREET	EAST 1ST STREET	58	570	24	\$445,590.00	570	\$111,150.00	570	\$91,200.00	570	\$94,050.00	\$741,990.00				
ONEIDA STREET	EAST 1ST STREET	EAST LAKE SHORE DRIVE	52	531		\$411,525.00	531	\$103,545.00	531	\$84,960.00	531	\$87,615.00	\$687,645.00				
NORTH ONTARIO STREET	WEST 10TH STREET	WEST 9TH STREET	58	504		\$390,600.00	504	\$98,280.00	504	\$80,640.00	504	\$83,160.00	\$652,680.00				
NORTH ONTARIO STREET	WEST 9TH STREET	WEST 8TH STREET	25	359		\$278,225.00	359	\$70,005.00	359	\$57,440.00	359	\$59,235.00	\$464,905.00				
NORTH ONTARIO STREET	WEST 8TH STREET	IA 7	77	453		\$351,075.00	453	\$88,335.00	453	\$72,480.00	453	\$74,745.00	\$586,635.00				
ONTARIO STREET	WEST 6TH STREET	WEST 5TH STREET	46	370	950	\$438,750.00	370	\$72,150.00	370	\$59,200.00	370	\$61,050.00	\$631,150.00				
ONTARIO STREET	WEST 3RD STREET	WEST 2ND STREET	45	576		\$446,400.00	576	\$112,320.00	576	\$92,160.00	576	\$95,040.00	\$745,920.00				
OTSEGO STREET	WEST 6TH STREET	WEST RAILROAD STREET	63	218		\$168,950.00	218	\$42,510.00	218	\$34,880.00	218	\$35,970.00	\$282,310.00				
OTSEGO STREET	WEST 5TH STREET	WEST 4TH STREET	34	852		\$660,300.00	852	\$166,140.00	852	\$136,320.00	852	\$140,580.00	\$1,103,340.00				
OTSEGO STREET	WEST 2ND STREET	WEST LAKE SHORE DRIVE	25	265		\$205,375.00	265	\$51,675.00			265	\$43,725.00	\$300,775.00				
PARKVIEW DRIVE	PETERSON DRIVE	SEGMENT END	65	368		\$285,200.00	368	\$71,760.00	368	\$58,880.00	368	\$60,720.00	\$476,560.00				
PHILLIPS STREET	PARK STREET	SEGMENT END	81	449	30	\$352,775.00	449	\$87,555.00	449	\$71,840.00	449	\$74,085.00	\$586,255.00				
PINECREST DRIVE	HYLAND DRIVE	SEGMENT END	63	339		\$262,725.00	339	\$66,105.00	339	\$54,240.00	339	\$55,935.00	\$439,005.00				
PINECREST DRIVE	HYLAND DRIVE	LOCHEDEM DRIVE	58	502	30	\$393,850.00	502	\$97,890.00	502	\$80,320.00	502	\$82,830.00	\$654,890.00				
PLEASANTVIEW DRIVE	HYLAND DRIVE	SEGMENT END	55	463		\$358,825.00	463	\$90,285.00	463	\$74,080.00	463	\$76,395.00	\$599,585.00				
PLEASANTVIEW DRIVE	HYLAND DRIVE	LOCHEDEM DRIVE	56	510		\$395,250.00	510	\$99,450.00	510	\$81,600.00	510	\$84,150.00	\$660,450.00				
PLEASANTVIEW DRIVE	LOCHEDEM DRIVE	WEST 6TH STREET	58	341		\$264,275.00	341	\$66,495.00	341	\$54,560.00	341	\$56,265.00	\$441,595.00				
RENSHAW DRIVE	WEST 5TH STREET	WEST 6TH STREET	46	427	30	\$335,725.00	427	\$83,265.00	427	\$68,320.00	427	\$70,455.00	\$557,765.00				
ROBERTS STREET	PARK STREET	3RD STREET	62	389	30	\$306,275.00	389	\$75,855.00	389	\$62,240.00	389	\$64,185.00	\$508,555.00				
RUSSELL STREET	EAST 10TH STREET	EAST 9TH STREET	81	556		\$430,900.00	556	\$108,420.00	556	\$88,960.00	556	\$91,740.00	\$720,020.00				
RUSSELL STREET	EAST MILWAUKEE AVENUE	EAST 6TH STREET	46	742		\$575,050.00	742	\$144,690.00	260	\$41,600.00	742	\$122,430.00	\$883,770.00				
RUSSELL STREET	EAST 6TH STREET	EAST 5TH STREET	80	335		\$259,625.00	335	\$65,325.00			335	\$55,275.00	\$380,225.00				
RUSSELL STREET	EAST 5TH STREET	EAST 4TH STREET	55	697		\$540,175.00	697	\$135,915.00	300	\$48,000.00	697	\$115,005.00	\$839,095.00				
RUSSELL STREET	EAST 4TH STREET	SEGMENT END	47	622		\$482,050.00	622	\$121,290.00	402	\$64,320.00	560	\$92,400.00	\$760,060.00				
RUSSELL STREET	EAST 3RD STREET	EAST 1ST STREET	33	671		\$520,025.00	671	\$130,845.00	671	\$107,360.00	671	\$110,715.00	\$868,945.00				
NORTH SENECA STREET	EAST 13TH STREET	EAST 12TH STREET	64	578	30	\$452,750.00	578	\$112,710.00	578	\$92,480.00	578	\$95,370.00	\$753,310.00				
NORTH SENECA STREET	EAST 12TH STREET	EAST 10TH STREET	93	1175		\$910,625.00	1175	\$229,125.00	1175	\$188,000.00	1175	\$193,875.00	\$1,521,625.00				
NORTH SENECA STREET	EAST 10TH STREET	NORTH WINDSOR CIRCLE	64	306	30	\$241,950.00	306	\$59,670.00	306	\$48,960.00	306	\$50,490.00	\$401,070.00				
NORTH SENECA STREET	NORTH WINDSOR CIRCLE	EAST 9TH STREET	54	323	30	\$255,125.00	323	\$62,985.00	323	\$51,680.00	323	\$53,295.00	\$423,085.00				
NORTH SENECA STREET	EAST 9TH STREET	SOUTH WINDSOR CIRCLE	62	307	30	\$242,725.00	307	\$59,865.00			307	\$50,655.00	\$353,245.00				
NORTH SENECA STREET	SOUTH WINDSOR CIRCLE	MILWAUKEE AVE	30	382		\$296,050.00	382	\$74,490.00			382	\$63,030.00	\$433,570.00				
SENECA STREET	EAST 2ND STREET	EAST 3RD STREET	42	572	450	\$515,300.00	572	\$111,540.00	572	\$91,520.00	572	\$94,380.00	\$812,740.00				
SENECA STREET	EAST 1ST STREET	EAST 2ND STREET	54	570		\$441,750.00	570	\$111,150.00	570	\$91,200.00	570	\$94,050.00	\$738,150.00				



# RECONSTRUCTION PROJECTS (BY STREET SEGMENT)

INFRASTRUCTURE MANAGEMENT PLAN  
CITY OF STORM LAKE, IA

Street	From	To	Street Rating (PCI)	Improvement Length (LF) & Cost								Estimated Total Project Cost (5)	Reconstruction Based On:				
				Street & Site Improvements (2)			Utility Improvements						HIGH VALUE (STREET & UTILITY)	MEDIUM VALUE (STREET & UTILITY)	LOW VALUE (UTILITY DRIVEN)	HIGH VALUE (STREET DRIVEN)	
				31' Street w/Curb (\$775.00)	Additional Width (6) (SY) (\$160.00)	Total Street Cost	Storm Sewer (3) (\$195.00)	Storm Sewer Cost	Sanitary Sewer (4) (\$160.00)	Sanitary Sewer Cost	Watermain (4) (\$165.00)						Watermain Cost
<b>North-South Streets (Page 4)</b>																	
SKEWIS STREET	4TH STREET	RICHLAND STREET	65	174		\$134,850.00	174	\$33,930.00	174	\$27,840.00	174	\$28,710.00	\$225,330.00				
SPOONER STREET	EAST 10TH STREET	EAST 12TH STREET	91	1174		\$909,850.00	1174	\$228,930.00	1174	\$187,840.00	1174	\$193,710.00	\$1,520,330.00				
SUNRISE PARK ROAD	SUNRISE PARK ROAD	SUNRISE PARK ROAD	30	468		\$362,700.00	468	\$91,260.00			468	\$77,220.00	\$531,180.00				
SUNRISE PARK ROAD	SUNRISE PARK ROAD	SUNRISE PARK ROAD	30	468		\$362,700.00	468	\$91,260.00			468	\$77,220.00	\$531,180.00				
SUPERIOR STREET	EAST 2ND STREET	EAST 3RD STREET	46	256		\$198,400.00	256	\$49,920.00	256	\$40,960.00	256	\$42,240.00	\$331,520.00				
SWALLUM DRIVE	SHOREWAY ROAD	WEST 5TH STREET	33	602		\$466,550.00	602	\$117,390.00	602	\$96,320.00	602	\$99,330.00	\$779,590.00				
TERRENCE STREET	LIGHTHOUSE DRIVE	WEST 4TH STREET	58	562	24	\$439,390.00	562	\$109,590.00	562	\$89,920.00	562	\$92,730.00	\$731,630.00				
VESTAL STREET	WEST 10TH STREET	WEST 9TH STREET	67	500		\$387,500.00	500	\$97,500.00	500	\$80,000.00	500	\$82,500.00	\$647,500.00				
VESTAL STREET	WEST 9TH STREET	WEST 8TH STREET	62	362		\$280,550.00	362	\$70,590.00	362	\$57,920.00	362	\$59,730.00	\$468,790.00				
VESTAL STREET	WEST 8TH STREET	WEST 7TH STREET	61	638	31	\$499,410.00	638	\$124,410.00	638	\$102,080.00	638	\$105,270.00	\$831,170.00				
VESTAL STREET	WEST 7TH STREET	WEST 6TH STREET	57	384		\$297,600.00	384	\$74,880.00	384	\$61,440.00	384	\$63,360.00	\$497,280.00				
VESTAL STREET	WEST 6TH STREET	SEGMENT END	45	162		\$125,550.00	162	\$31,590.00			162	\$26,730.00	\$183,870.00				
VESTAL STREET	WEST 5TH STREET	WEST 6TH STREET	47	392		\$303,800.00	392	\$76,440.00			392	\$64,680.00	\$444,920.00				
WALNUT LANE	EAST 7TH STREET	POPLAR LANE	55	458		\$354,950.00	458	\$89,310.00	458	\$73,280.00	458	\$75,570.00	\$593,110.00				
WITTER STREET	WEST 9TH STREET	SEGMENT END	56	505		\$391,375.00	505	\$98,475.00	505	\$80,800.00	505	\$83,325.00	\$653,975.00				
<b>Totals</b>				127037	28164	\$102,959,915.00		\$24,772,215.00		\$16,139,360.00		\$19,424,460.00	\$164,019,970.00	25	208	38	10
				LF	SY												
<b>High Value Street &amp; Utility Project Totals (7)</b>						\$11,268,025.00		\$2,720,445.00		\$1,436,800.00		\$2,030,325.00	\$17,455,595.00				
<b>Medium Value Street &amp; Utility Project Totals (8)</b>						\$72,958,945.00		\$17,582,565.00		\$11,894,080.00		\$14,439,480.00	\$116,875,070.00				
<b>Low Value (Utility Driven) Project Totals (9)</b>						\$14,731,845.00		\$3,491,865.00		\$2,176,160.00		\$2,954,655.00	\$23,354,525.00				
<b>High Value (Street Driven) Project Totals (10)</b>						\$4,001,100.00		\$977,340.00		\$632,320.00			\$5,610,760.00				

- Notes:
- 1) Refer to attached Reconstruction Project Map for illustrations of referenced projects.
  - 2) Street & Site costs include estimated pavement, subbase, curb & gutter, sidewalk (2 sides), driveways, and turf reestablishment.
  - 3) Storm sewer costs include mainline pipe, leads, structures, & subdrain.
  - 4) Utility costs include typical mainline pipe, service lines, leads, structures, etc.
  - 5) Costs presented above are in 2021 dollars, including estimated construction, contingency, and engineering.
  - 6) Additional width costs include pavement and subbase beyond base street width of 31 feet used in determination of costs.
  - 7) "High Value" projects include those improvements which do not include premature replacement of overlying pavements, if completed in near future.
  - 8) "Medium Value" projects include those improvements which include slightly premature replacement of overlying pavements, if completed in near future.
  - 9) "Low Value" projects include those improvements which include premature replacement of overlying pavements
  - 10) "High Value" (Street Driven) projects include segments with no utilities or no outstanding utility replacements needs. These projects include placeholder costs for potential stormwater and drainage improvements, and potential sanitary sewer lining.