



**VILLAGE OF JACKSON
BOARD OF PUBLIC WORKS MEETING AGENDA
AUGUST 29, 2023 at 6:00 P.M.
VILLAGE BOARD ROOM
N168W19851 MAIN STREET, JACKSON, WI 53037**

1. Call to Order and Roll Call
2. Approval of the Board of Public Works Minutes of July 25, 2023
3. Presentation of Impact Fee Study – Trilogy Consulting, LLC
4. Pay Request #2 – Oaks of Jackson Subdivision – DF Tomasini Contractors Inc.
5. Pay Request #3 – Oaks of Jackson Subdivision – DF Tomasini Contractors Inc.
6. Pay Request #2 – 2023 Utility Street Improvement Project – Vinton Construction
7. Review of Final Assessment - 2023 Utility Street Improvement Project
8. Pay Request #6 – STH 60 Utility Upgrade Project – Advanced Construction
9. Review of TID #7 – Commercial Property – Engineering Proposal – Cedar Corp
10. Review of Analysis of Equipment Proposals – 2024 WWTP Upgrades
11. Director of Public Works Report
12. Citizens/Village Staff to address the Board
13. Adjourn

Persons with disabilities requiring special accommodations for attendance at the meeting should contact the Administration Department at the Jackson Municipal Complex at least one (1) business day prior to the meeting.

It is possible that members of the Village Board may attend the above meeting. No action will be taken by any governmental body at this meeting other than the governmental body specifically referred to in this meeting notice. This notice is given so that members of the Village Board may attend the meeting without violating the open meeting law.

DRAFT MINUTES
Board of Public Works Meeting
Tuesday, July 25, 2023 at 6:00 p.m.
Jackson Municipal Complex
Village Board Room
N168W19851 Main Street
Jackson, WI 53037

1. Call to Order and Roll Call

President Heckendorf called the meeting to order at 6:00 p.m.

Members Present: Tr. Engelhardt, Tr. Matter, Stephanie Egner, Ethan Hollenberger, Jeff Mitchell and Chris Sberna

Member Excused:

Staff Present: Administrator Jen Keller, Director of Public Works Brian Kober, Deputy Clerk Pamela Wolf, Parks & Rec Director Kelly Valentino

2. Approval of the Board of Public Works Minutes of June 27, 2023

Motion by Tr. Matter, second by Stephanie Egner to approve the Board of Public Works minutes of June 27, 2023.

Vote: 7 ayes, 0 nays. Motion carried.

3. Review of Eagle Scout Project for Hickory Lane Park Soccer Fields

Brayden Voge presented the proposed plan for the project, hoping to complete by end of August.

Motion by Pres. Heckendorf, second by Ethan Hollenberger to recommend the Village Board approve the Eagle Scout Project for six (6) soccer benches at Hickory Lane Park Soccer Fields

Vote: 7 ayes, 0 nays. Motion carried.

4. Resolution #23-17 Adopting 2022 Compliance Maintenance Annual Report

Director Kober reviewed the report, mostly good marks and only one F grade with an overall 3.63 GPA. The failed grade is the wastewater plant took more flow than design and DNR approved. We did not bypass, and all wastewater was treated before leaving the plant.

Motion by Tr. Engelhardt, second by Pres. Heckendorf to recommend the Village Board approve Resolution #23-17 Adopting 2022 Compliance Maintenance Annual Report.

Vote: 7 ayes, 0 nays. Motion carried.

5. Review of Final Assessment for STH 60 Utility Upgrade Project

Director Kober commented on the final assessment and notification to the benefiting property owners will be completed for the August 8th Village Board meeting public hearing.

Motion by Pres. Heckendorf, second by Chris Sberna to recommend Budget and Finance and Village Board approve Resolution 23-19 Final Resolution Authorizing the Levy of Special Assessments Against Benefited Property Associated with STH 60 Utility Upgrades Reconstruction project 2023.

Some discussion continued regarding approval prior to October 15th to get onto tax assessments this year.

Vote: 7 ayes, 0 nays. Motion carried.

6. Review of Sale of Jackson Sewer Utility 2011 Vactor Jet/Vac Truck

Director Kober commented on the status of the bid received and research regarding fair market value. Tr. Engelhardt commented to make sure it is stated in the sale that we are selling as is.

Motion by Tr. Engelhardt second by Tr. Matter to recommend Budget and Finance and Village Board accept bid from Village of Slinger for \$125,000.00 to sell the 2011 Vactor, Model 2100+ Jetvac.

Vote: 7 ayes, 0 nays. Motion carried.

7. Review of Bid for WWTP Storage Building Expansion

Director Kober provided background of the bid from Hunzinger Construction; the only bid received. Director Kober said this was a worst-case scenario bid as Hunzinger had some ideas for cost savings options such as roof materials to be changed out and changing gauge of steel on the exterior of the building. The costs savings will be done through the change order process.

Motion by Pres. Heckendorf, second by Tr. Matter to recommend Budget and Finance and Village Board approve acceptance of bid in the amount of \$867,000.00 from Hunzinger Construction for the WWTP Storage Building Expansion

Vote: 7 ayes, 0 nays. Motion carried.

8. Review of Preliminary Assessment for 2023 Utility and Street Improvement Project

Director Brian Kober provided information regarding the special assessments to property owners for Highland Road Street improvements in the amount of \$13,562.50, and the Sherman Road Sewer Extension Project special assessments to property owners is \$240,091.13. Only \$18,398.55 will be special assessed at this time. The rest of the Sherman Road assessment will be deferred until the properties in the Town become Village.

This item was for information only, so no action was necessary.

9. Resolution 23-18 Accepting Sanitary Sewer and Water in Maple Fields Phase I

Director Brian Kober provided background with all current punch list items have been corrected and there are people living in the subdivision.

Motion by Tr. Engelhardt, second by Tr. Matter to refer to Village Board for approval.

Vote: 7 ayes, 0 nays. Motion carried.

10. Review of future purchase of Public Works Equipment

Director Kober provided background of the two quotes, International and Western Star. The memo explains that they would like to stay with International even though the bid is slightly higher, Western Star is out of Appleton, much further to drive and the Village already have International trucks, so some parts and knowledge for repair and maintenance already exists.

Discussion continued, Trustee Engelhardt recommended we drive a MAC and a Western Star – check with Germantown and Grafton as they have them and check them out. Western Star also has locations in Milwaukee, just as close as West Bend or Allenton Tr. Engelhardt stated.

This item was for information only, so no action was necessary.

11. Change Order # 1 – Oaks of Jackson Subdivision – Roadway Stabilization

Director Kober explained we are doing a proof roll on Thursday, July 27th to check compaction of the roadway. If the proof roll fails, we have the change order ready to provide road stabilization. The request for the change order approval now is to stay on schedule for completion of the subdivision.

Motion by Pres. Heckendorf, second by Ethan Hollenberger to refer to Budget and Finance and the Village Board for approval of Change Order # 1 – Oaks of Jackson Subdivision – Roadway Stabilization in the amount of \$101,989.45.

Vote: 7 ayes, 0 nays. Motion carried.

12. Review of 15-year Capital Road Improvement Plan

Director Kober reviewed the report, explained how he arranged the report, taking each street and assessing a number of each street by the WisDOT Paser rating system.

This item was for information only, so no action was necessary.

13. Director of Public Works Report

Director Kober provided a brief background of the report.

Motion by Pres. Heckendorf, second by Tr. Engelhardt, to place the Director of Public Works Report on file.

Vote: 7 ayes, 0 nays. Motion carried.

14. Citizens/Village Staff to Address the Board

Director Kober spoke regarding an insert in the water bills that went out alerting residents for the 8% increase water rate. Also, being proposed is an 8% increase for the sewer rate.

All wells raw water has been tested for PFAS with no detect at this time.

On August 8th the Jackson Sewer Utility is hosting the annual Southeast WWOA meeting at the Community Center and staff is giving tours of the wastewater plant.

Stop by at the Jackson Sewer Utility booth at the Washington County Fair this week.

15. Adjourn

Motion by Pres. Heckendorf, second by Tr. Engelhardt to adjourn.

Vote: 7 ayes, 0 nays. Meeting was adjourned at 7:26 p.m.

Respectfully submitted,

Pamela Wolf
Deputy Clerk/Treasurer

Memo

To: Jen Keller, Village Administrator
From: Brian W. Kober, P. E., Director of Public Works *BWK*
Subject: Public Facilities Needs Assessment & Impact Fee Study
Date: August 25, 2023
CC: Village Board

The existing Impact Fee Study was created by Baker Tilly and adopted in 2011 which has expired per Wisconsin State Statute. The Village of Jackson hired Trilogy Consulting in 2019 to complete the study before the expiration date, although, Covid and other issues have pushed the completion date until now.

The schedule for adoption: 1) August 29th Board of Public Works meeting review of study and recommend to Village Board; 2) September 12th Village Board approving Study and recommending staff to draft ordinance for adoption; 3) October 10th Village Board holds public hearing of new impact fee ordinance (if no objection by public then recommend suspending the rules for final reading or second would occur at November 14th VB meeting; 4) New fees would take effect on January 1, 2024.

If you have any questions, please let me know.

Brian W. Kober, P.E.

Public Facilities Needs Assessment and Impact Fee Study

Prepared for the

Village of Jackson

by Trilogy Consulting, LLC

August 2023



Table of Contents

CHAPTER ONE: INTRODUCTION	2
INTRODUCTION	2
<i>Table 1 - Existing Development Fees.....</i>	<i>3</i>
AUTHORITY TO IMPOSE IMPACT FEES UNDER WISCONSIN STATUTES	3
CHAPTER TWO: POPULATION AND DEVELOPMENT PROJECTIONS.....	7
PLANNING PERIOD AND STUDY AREA	7
HISTORICAL AND FORECAST POPULATION AND HOUSEHOLDS	7
<i>Table 2 - Historical Population and Households</i>	<i>7</i>
<i>Table 3 - Projected Population, Households, and Housing Units.....</i>	<i>8</i>
HISTORICAL AND FORECAST NONRESIDENTIAL DEVELOPMENT	8
<i>Table 4 - Historical and Forecast Nonresidential Development</i>	<i>9</i>
CHAPTER THREE: FIRE IMPACT FEE ANALYSIS	10
INTRODUCTION	10
FIRE DEPARTMENT FACILITIES	10
<i>Table 5 - Former Fire Station Facility Space</i>	<i>11</i>
<i>Table 6 - New Fire Station Facility Space</i>	<i>11</i>
SERVICE LEVEL STANDARDS AND DEFICIENCY / GROWTH ANALYSIS	11
<i>Table 7 - Analysis of Fire Station Facility Space to Serve Future Growth.....</i>	<i>12</i>
ALLOCATION OF COSTS AND FIRE IMPACT FEE CALCULATION	12
<i>Table 8 - Allocation of Fire Impact Fee Costs to Projected Residential and Nonresidential Development.....</i>	<i>13</i>
<i>Table 9 - Calculated Fire Impact Fees</i>	<i>14</i>
<i>Table 10 - Recommended Fire Impact Fees for Residential Units</i>	<i>14</i>
CHAPTER FOUR: POLICE IMPACT FEE ANALYSIS.....	15
INTRODUCTION	15
EXISTING AND PLANNED POLICE STATION FACILITIES	15
<i>Table 11 - Existing Police Station Facility</i>	<i>16</i>
<i>Table 12 - New Police Station Facility</i>	<i>16</i>
SERVICE LEVEL STANDARDS AND DEFICIENCY / GROWTH ANALYSIS	16
<i>Table 13 - Analysis of Police Station Facility Space Needed to Serve Future Development.....</i>	<i>17</i>
ALLOCATION OF COSTS AND POLICE IMPACT FEE CALCULATION	17
<i>Table 14 - Allocation of Police Impact Fee Costs to Projected Residential and Nonresidential Development ...</i>	<i>18</i>
<i>Table 15 - Calculated Police Impact Fees</i>	<i>18</i>
<i>Table 16 - Recommended Police Impact Fees for Residential Units</i>	<i>19</i>
CHAPTER FIVE: PARK IMPACT FEE ANALYSIS	20
INTRODUCTION	20
PARKS, PLAYGROUNDS, AND LAND FOR ATHLETIC FACILITIES	21
<i>Table 17 - Existing and Planned Parkland Inventory</i>	<i>21</i>
<i>Table 18 - Current and Planned Park Amenities.....</i>	<i>22</i>

<i>Table 19 - Existing and Planned Trail System</i>	<i>22</i>
SERVICE LEVEL STANDARDS AND DEFICIENCY / GROWTH ANALYSIS	23
<i>Table 20 - Analysis of Parkland Service Level Standards and Share of New Parkland Needed to Serve New Development.....</i>	<i>23</i>
COST ESTIMATES, ALLOCATION OF COSTS, AND PARK IMPACT FEE CALCULATION.....	24
<i>Table 21 – Planned Park Improvements and Estimated Costs</i>	<i>25</i>
<i>Table 22 - Park Impact Fee Calculation.....</i>	<i>25</i>
CHAPTER SIX: WATER IMPACT FEE ANALYSIS	26
INTRODUCTION	26
EXISTING AND PLANNED WATER FACILITIES.....	26
<i>Table 23 - Existing Water System Facilities</i>	<i>27</i>
SERVICE LEVEL STANDARDS AND DEFICIENCY / GROWTH ANALYSIS	27
<i>Table 24 - Analysis of Water System Facility Capacity.....</i>	<i>28</i>
ALLOCATION OF COSTS AND WATER IMPACT FEE CALCULATION.....	29
<i>Table 25 - Estimated Water System Expansion Costs and Proposed Impact Fee.....</i>	<i>30</i>
CHAPTER SEVEN: SANITARY SEWER SERVICE FEE ANALYSIS	31
INTRODUCTION	31
EXISTING AND PLANNED SANITARY SEWER FACILITIES	31
<i>Table 26 - Existing Sewer Facilities</i>	<i>32</i>
<i>Table 27 - Current Wastewater Treatment Inflows</i>	<i>33</i>
<i>Table 28 - Recommended Facility Plan Cost Estimates.....</i>	<i>34</i>
SANITARY SEWER SERVICE FEE CALCULATION	35
<i>Table 29 - Determination of Residential Equivalent Unit.....</i>	<i>36</i>
<i>Table 30 - Calculation of Sewer Service Fee</i>	<i>36</i>
CHAPTER EIGHT: RECOMMENDED FEES AND IMPLEMENTATION	37
INTRODUCTION	37
RECOMMENDED IMPACT FEE SCHEDULE	37
<i>Table 31 - Existing and Proposed Impact Fees</i>	<i>38</i>
IMPACT ON THE AVAILABILITY OF AFFORDABLE HOUSING	38
ENACTING THE IMPACT FEE ORDINANCE	39
IMPOSITION AND COLLECTION OF FEES	40
MANAGING IMPACT FEES	41
ANNUAL ADJUSTMENT AND PERIODIC REVIEW.....	42

CHAPTER ONE: INTRODUCTION

INTRODUCTION

Under Wisconsin Statutes §66.0617, municipalities may adopt impact fees to pay for the proportionate share of capital costs for public facilities needed to serve new development. Impact fees may be collected for highways and other transportation facilities, traffic control devices, facilities for collecting and treating sewage, facilities for collecting and treating storm and surface waters, facilities for pumping, storing, and distributing water, parks, playgrounds, and land for athletic fields, solid waste and recycling facilities, fire protection facilities, law enforcement facilities, emergency medical facilities, and libraries.

The Village of Jackson (Village) has experienced steady population and business growth and is expecting continued growth in the future. The Village imposes the following fees on development to defray the capital costs of public facilities:

- Water, police, and fire facilities impact fees imposed under Wisconsin Statutes §66.0617.
- Sewer service fees for new connections to the sewer system or existing connections that expand and require a larger meter. These fees are part of the wastewater utility's fees and charges under the authority of Wisconsin Statutes §66.0821.
- A parks facilities fee that was established under the authority of municipalities to require fees in lieu of land dedication for park development as a condition of subdivision plat approval under Wisconsin Statutes §236.45(6). Under Wisconsin Statutes §236.45(6), a municipality may impose a fee to fund the acquisition and initial development of land for parks as part of a subdivision ordinance. 'Initial development' of parks includes grading, landscaping, installation of utilities, construction of sidewalks, installation of playground equipment, and construction or installation of restroom facilities.

The current fees that the Village imposes on new development to fund public infrastructure improvements are as shown in Table 1.

Table 1 - Existing Development Fees

Type of Fee	Current Fee	Village Ordinance
Sewer Service Fee	\$4,000 per Residential Equivalent Unit	Sec. 2-314
Water Impact Fee	\$820 per Residential Equivalent Unit	Sec. 2-315
Park Service Fee		Sec. 2-316
Single-Family	\$850 per dwelling	
Multi-Family	\$740 per unit	
Police and Fire Facilities Impact Fee		Sec. 2-317
Single-Family	\$1,430 per dwelling	
Multi-Family	\$1,280 per unit	
Non-Residential	\$2.80 per \$1000 of improvements	

The 2017 Wisconsin Act 243 required municipalities to follow the procedures and requirements of Wisconsin Statutes §66.0617 for impact fees in order to impose park development fees under Wisconsin Statutes §236.45(6). In addition, the Village has recently constructed major improvements or to provide expanded fire and police services, and has updated plans for parks, water and sewer service, since the adoption of the fees in 2011. Therefore, the Village retained Trilogy Consulting to prepare this impact fee study to convert the park development fee to a park impact fee, evaluate impact fees for fire, police, and water facilities, and update the sewer service fee.

This report satisfies the requirements of Wisconsin State Statutes §66.0617, properly allocates the capital costs for the facilities between existing development and new development and may be used by the Village as the basis for adopting an impact fee ordinance.

AUTHORITY TO IMPOSE IMPACT FEES UNDER WISCONSIN STATUTES

In 1993, Wisconsin Act 305 created Section §66.55 (now §66.0617) of the Wisconsin Statutes, which provides the authority for cities, villages, and towns to impose impact fees on new development for recovering capital costs of public facilities. The statute specifies the type of facilities for which impact fees may be imposed and prescribes the procedural requirements for impact fee ordinances enacted by a municipality. In 2006, the statute was amended by Wisconsin Acts 206 and 477. In 2007, the statute was again amended by Wisconsin Act 44. Most recently, the statute was amended by 2017 Wisconsin Act 243.

Eligible Facilities

The impact fee statute allows the use of impact fees for a wide variety of public facilities projects. Impact fees may be used to pay for a proportionate share of capital costs of highways, traffic control facilities, sewerage facilities, storm water facilities, water supply facilities, parks facilities, solid waste and recycling facilities, fire protection facilities, law enforcement facilities, emergency medical facilities and libraries that are necessary to serve related growth. Impact fees may not be used for any public facilities that are not listed in statutes.

Eligible Costs

Impact fees may only be used to fund capital costs of public facilities, which are defined as the cost to construct, expand or improve public facilities. Eligible costs may include land, legal, planning, engineering and design costs. Impact fees may not be used for the purchase of vehicles and equipment or for operation and maintenance expenses.

Determining the Amount of the Fees

Impact fee law requires that impact fees must bear a rational relationship to the need for new, expanded or improved public facilities. This means that impact fees should not be charged to new development if that development is not likely to create a demand for the specific type of facility for which an impact fee is imposed. For example, most communities that charge an impact fee for parks do not impose them on nonresidential development. It also means that the amount of the impact fee should be based on a reasonable estimate of the demand that a new development will create for public facilities. For services that serve both residential and nonresidential properties, such as water and sewer service, this requires finding a reasonable basis for determining the amount of capital costs of facilities are required for residential versus nonresidential development.

Impact fees may not be used to correct existing deficiencies in the public facilities for which they are imposed. Examples of existing deficiencies may include:

- Facilities or portions of facilities that need to be replaced due to age or obsolescence.
- Improvements made to existing facilities to meet state or federal requirements or utilize improved technology.
- Facilities or portions of facilities that are required to provide the desired service level standard for existing development.

State law also requires that impact fees cannot exceed the proportionate share of the capital costs required to serve new development as compared to existing development. The share of

the costs to serve new development versus existing development must be determined based on explicitly defined service level standards. Service level standards are not dictated by state statute but must be identified by the municipality imposing impact fees. Each facility must be analyzed to determine the share of the facility that is needed to provide the established service level to the existing development versus the excess facility space that is available to serve new development. The same service level should be applied to both existing and new development when determining if there is a portion of facilities that are needed to provide the desired service level to existing development. If new facilities are needed in part to provide the desired service level standards to existing development, then a portion of the total capital costs may need to be allocated to meet an existing deficiency when determining the amount of total costs that are eligible to be recovered through impact fees.

The amount to be recovered through impact fees must be reduced to compensate for other charges imposed on land development to pay for the capital costs of new facilities, such as special assessments, land dedications, or fees in lieu of land dedication. Impact fees must also be reduced to compensate for state or federal grants received by a municipality to pay for the facilities for which the fees are imposed.

2017 Wisconsin Act 243 added a new standard for impact fees, that the fees ‘May not include amounts for an increase in service capacity greater than the capacity necessary to serve the development for which the fee is imposed.’ This is more specific than the requirement that fees ‘May not exceed the proportionate share of the capital costs that are required to serve land development, as compared to existing uses of land within the municipality.’ This standard has not yet been interpreted by the courts to determine what standards municipalities may be required to meet to prove that an impact fee isn’t more than the cost of capacity needed to serve a specific development.

Procedural Requirements

Before adopting or amending an impact fee ordinance, a municipality must prepare a Public Facilities Needs Assessment that includes the following components:

- An inventory of existing public facilities, including an identification of any existing deficiencies in the quantity or quality of those public facilities, for which it is anticipated that an impact fee may be imposed.
- An identification of the new public facilities, or improvements or expansions of existing public facilities, that will be required because of land development for which it is anticipated that impact fees may be imposed. This identification shall be based on explicitly identified service areas and service standards.

- A detailed estimate of the capital costs of providing the new public facilities or the improvements or expansions in existing public facilities, including an estimate of the cumulative effect of all proposed and existing impact fees on the availability of affordable housing within the municipality.

A municipality must also hold a public hearing on the proposed impact fee ordinance and make a copy of the public facilities needs assessment and proposed ordinance available for public review at least 20 days prior to the public hearing.

Summary

Wisconsin impact fee law contains specific requirements for the process of adopting or amending an impact fee ordinance and for determining the amount that can be charged for an impact fee. Impact fees imposed under Wisconsin Statutes §66.0617 may not be used to correct any existing deficiencies in public facilities. Fees must also bear a rational relationship to the need for new, expanded or improved public facilities for which they are imposed and the fee may not exceed the proportionate share of capital costs required to serve new development versus existing uses. The impact fee charged to a property owner must also be reduced to compensate for other capital costs required by the municipality on land development to provide or pay for any public facilities for which impact fees are imposed. Wisconsin Statutes §66.0617 imposes additional standards and requirements upon the imposition of impact fees that may be relevant in particular situations.

In summary, it is important that a municipality that adopts impact fees:

- Prepares a public facilities needs assessment and conducts a public hearing;
- Ensures that the public facilities needs assessment contains all the items listed above, as prescribed by Wisconsin Statutes, and that the computed fee does not include any portion of capital costs that are needed to remedy any existing deficiencies or serve existing development;
- Follows the plan as laid out in the public facilities needs assessment in terms of the share of capital costs that are intended to be recovered through impact fees; and
- Revises the needs assessment if specific projects change significantly.

CHAPTER TWO: POPULATION AND DEVELOPMENT PROJECTIONS

PLANNING PERIOD AND STUDY AREA

An important element of determining appropriate impact fees is projecting the amount of future development that will occur in the service area during the selected planning period. These projections are important for planning for the facilities needed to serve new development as well as calculating the proportionate cost of facilities per unit of development.

The planning period for this impact fee study is 2010 through 2040 for parks, police, and fire facilities. Planning for these facilities began with the previous impact fee study conducted in 2010, and they are projected to serve the population through 2040. The planning period for the water impact fee is through 2035, consistent with the recently completed Water System Master Plan. The planning area for this study is the entire Village of Jackson, since the facilities evaluated in this study serve the entire Village.

HISTORICAL AND FORECAST POPULATION AND HOUSEHOLDS

Several sources of information were reviewed in preparing summaries of historical and forecast population and households in the Village: the U.S. Census, the Comprehensive Plan for the Village of Jackson: 2050, historical trends in residential building permits, and population and household estimates from the Wisconsin Department of Administration.

As shown in Table 2, the Village experienced an annual growth rate of 92 new households and 182 people per year between 2000 and 2010, or an annual population growth rate of 3.2 percent. This growth slowed somewhat between 2010 and 2020, but the Village continued to experience steady population growth.

Table 2 - Historical Population and Households

Year	Population	Households	Persons per Household	Housing Units	Vacancy Rate
2000	4,938	1,949	2.53	2,011	3.1%
2010	6,753	2,870	2.35	3,061	6.2%
2020	7,185	3,216	2.23	3,300	2.5%
Annual Growth, 2000-2010	182	92		105	
Annual Growth, 2010-2020	43	35		24	

Source: U.S. Census Bureau.

The Village is planning for continued population growth. As shown in Table 3, the Village expects an increase in population of 2,525 persons and 1,222 new households between 2020 and 2040. Assuming a 2.5 percent vacancy rate, it would require approximately 1,252 new housing units to accommodate this projected population increase.

Table 3 - Projected Population, Households, and Housing Units

Year	Population	Households	Persons per Household	Housing Units
2020	7,185	3,216	2.23	3,300
2025	8,435	3,756	2.25	3,852
2030	9,085	4,086	2.22	4,191
2035	9,485	4,309	2.20	4,419
2040	9,710	4,438	2.19	4,552

Source: WI Dept. of Administration.

Note: Projected Housing Units are based on 2.5% vacancy.

HISTORICAL AND FORECAST NONRESIDENTIAL DEVELOPMENT

The Village of Jackson has also experienced steady nonresidential development in recent years. Commercial development has included new development and business expansion along the Main Street corridor, particularly near the interchange with USH 45. New industrial development has occurred primarily as infill of the industrial park in the northwest quadrant of the Village.

With substantial population growth projected for 2020 through 2040, it is expected that nonresidential development will also continue at a rapid pace. Table 4 shows the historical net new construction for commercial and industrial development from 2011 through 2022, with 20-year projections based on maintaining the pace of development experienced in the past 12 years.

Table 4 - Historical and Forecast Nonresidential Development

Year	Commercial	Manufacturing
2010		
2011	\$2,163,000	\$0
2012	\$131,600	\$0
2013	\$1,066,200	\$0
2014	\$96,400	\$2,316,300
2015	\$1,801,300	\$6,852,100
2016	\$6,429,300	\$1,657,900
2017	\$8,184,400	\$2,057,700
2018	\$5,724,000	\$0
2019	\$5,106,500	\$2,879,700
2020	\$2,485,100	\$1,390,800
2021	\$4,030,900	\$73,100
2022	\$3,713,800	
Annual Average		
2011 - 2022	\$3,411,042	\$1,566,145
20-Year Projection	\$68,220,833	\$31,322,909

Source: Wisconsin Department of Revenue.

CHAPTER THREE: FIRE IMPACT FEE ANALYSIS

INTRODUCTION

The Jackson Fire Department was established in 1892 and serves the Village of Jackson, Town of Jackson and Town of Polk with fire prevention, building fire inspection, fire suppression, and 24-hour paramedic coverage.

From 1974 to 2022, the Department operated from a station located at W204 N16722 Jackson Drive, which was formerly a business office and received several renovations over the years. Prior to this location, it was housed since 1931 at the previous Village Hall site at N168 W20635 Main Street, which had received numerous renovations since its original construction.

In August 2016, the “Village of Jackson Space Needs Analysis” was completed for the Village by Cedar Corporation, which recommended a significantly larger fire facility at a different location to better serve the entire area. In 2022, the Village completed construction of a new Municipal Complex at N168 W19851 Main Street that houses the fire department, police department, and Village administration to replace the old fire station and Village Hall. Additional capacity provided in this new facility to serve future development may be recovered from new development through impact fees.

This chapter includes the majority of the elements for a public facilities needs assessment under Wis. Stats. §66.0617: an inventory of Fire Department facilities, service level standards, deficiencies in prior facilities, a list of recent improvements and actual costs, and the proportionate share of the cost of new improvements that are attributable to new development.

FIRE DEPARTMENT FACILITIES

The prior fire station on Jackson Drive was 13,800 square feet, spread between two buildings, most of which was the apparatus bay. The Space Needs Analysis noted several deficiencies in this facility in terms of the amount of space and functional obsolescence.

Facility space deficiencies in the prior station mostly focused on the absence of space that modern fire stations require. These spaces include a public lobby area, more administrative space, a living area and kitchen for both full-time staff and paid-on-call volunteers, sleeping rooms for full-time positions, shower and locker facilities, and equipment storage space. Additionally, as the Village grows, the Department will need to hire more firefighters and EMTs, including full-time employees, in order to provide around-the-clock coverage of the service area.

Table 5 - Former Fire Station Facility Space

Type of Space	Existing Facilities, 2016
	Square Feet ⁽¹⁾
Administrative Space	3,471
Apparatus Bay	10,329

Notes:

(1) Source: Space Needs Analysis, Cedar Corp.

In 2022, the Village completed construction of a new municipal complex at N168 W19851 Main Street to house the Village Hall, Police Department, and Fire Department, that replaces the old facilities. Some spaces are shared among all the departments and are included in each department's area proportionately.

Table 6 - New Fire Station Facility Space

Type of Space	New Facility
	Square Feet ⁽²⁾
Police	
Office Space	9,450
Garage	6,650
Fire	
Administrative Space	13,450
Apparatus Bay	11,940
Shared Space	
Police Portion	4,335
Fire Portion	6,120

Notes:

(2) Source: Email from Brian Kober, 11/14/2022

SERVICE LEVEL STANDARDS AND DEFICIENCY / GROWTH ANALYSIS

Wisconsin Statutes §66.0617 requires that a public facilities needs assessment identify any deficiencies in existing facilities. It also limits impact fees to recovering only the proportionate share of the cost of facilities required to serve new development as opposed to existing land uses, based on explicitly defined service level standards. Therefore, the share of the cost of new fire station facilities related to remedying any existing deficiencies versus the share related to serving new development must be identified.

The service level standard for fire station facilities is not set by Wisconsin Statutes, rather it is determined by amount of facility space that the Village decides is necessary to provide service.

The Village planned for and constructed the new fire station based on the projected 20-year space needs of the Fire Department. Therefore, the service level standard for Fire Department facilities is based on the amount of space recently constructed to serve the projected 2040 population.

As shown in Table 7, the new fire station will provide 3,245 square feet of space per 1,000 population for the projected 2040 population. This service level was used to determine the amount of facility space that would be required to provide the same service level for the existing 2010 population at the time the fire impact fees was initially adopted. A 21,914 square foot facility would have been needed to provide the same level of service for the 2010 population. Therefore, 21,914 square feet of the new fire station is the proportionate share of that facility that is needed to serve the existing population of the Village. The additional 9,596 square feet that is provided in the new fire station represents the proportionate share of capacity that is available to serve future growth in Jackson.

Table 7 - Analysis of Fire Station Facility Space to Serve Future Growth

	Square Feet	Percentage
Service Level Standard		
New Fire Facilities	31,510	
2040 Population	9,710	
Service Level per 1,000 Population	3,245	
Space Needed for Current Population		
2010 Population	6,753	
Service Level per 1,000 Population	3,245	
Required Fire Station Space - 2010	21,914	
Proportionate Share of New Facility for Current vs. Future Population		
Fire Station Space Required for Current Population	21,914	69.5%
Fire Station Space for Future Growth	9,596	30.5%
Total Fire Station	31,510	100.0%

ALLOCATION OF COSTS AND FIRE IMPACT FEE CALCULATION

The Village incurred \$11,701,611 in capital costs for the new municipal complex. The Fire Department constituted 51% of the construction cost, or \$5,967,822. As shown in Table 7, 30.5 percent of the new station represents capacity to serve future development through 2040.

Therefore, 30.5 percent, or \$1,820,185, of the cost is the proportionate share of the cost that the Village may recover from new development.

Since the Fire Department serves both residential and nonresidential development, the impact fee eligible costs must also be allocated between residential and nonresidential development. Costs were allocated between broad categories of land use based on the anticipated equalized value of new development in each category.

The projected value of development for residential, industrial and commercial development is shown in Table 8. Based on the number of new residential dwelling units and square feet of nonresidential development between 2010 and 2040, and the recent and current value of new construction in the Village, Table 8 shows the projected total value of new development between 2010 and 2040 in current dollars. It is expected that approximately 73.8 percent of new property value will be residential development, while approximately 17.7 percent will be commercial, and 8.5 percent will be industrial.

Table 8 - Allocation of Fire Impact Fee Costs to Projected Residential and Nonresidential Development

Fire Facilities Allocation	Projected Units 2010-2040	Average Value / Unit	Total Forecast of Value of Improvements	Percent of Total Incremental Value	Allocated Share of Future Growth Costs
Residential ⁽¹⁾	1,491	\$283,482	\$422,671,700	73.8%	\$1,343,691
Commercial ⁽²⁾			\$101,408,633	17.7%	\$322,382
Industrial ⁽²⁾			\$48,477,409	8.5%	\$154,112
Total			\$572,557,742		\$1,820,186

(1) Residential forecast is based on actual net new construction from 2011 to 2020, plus projected new units at \$300,000 per unit.

(2) Commercial and Industrial forecast is based on actual net new construction from 2011 to 2020, plus 20-year projections from Table 4.

Based on the projected units of new development (residential dwelling units and \$1,000 of non-residential improvement value), Table 9 shows the impact fee per unit that would be required to recover the eligible costs.

Table 9 - Calculated Fire Impact Fees

Development Type	Impact Fee Allocation	Incremental Development 2010-2040	Cost per Unit	Units
Residential	\$1,343,691	2,957	\$454	per person
Commercial	\$322,382	\$101,408,633	\$3.18	per \$1,000 improvements
Industrial	\$154,112	\$48,477,409	\$3.18	per \$1,000 improvements

The cost per unit for residential units is based on the estimated number of persons per unit for various sized dwelling units. Since smaller units typically have fewer residents per unit and lower value per unit, it is recommended that the Village charge lower impact fees for smaller units.

Table 10 - Recommended Fire Impact Fees for Residential Units

Type of Residence	Fee per Unit
Single-Family	\$1,022 per house at 2.25 persons / unit
Multi-Family	\$795 per unit at 1.75 persons / unit

CHAPTER FOUR: POLICE IMPACT FEE ANALYSIS

INTRODUCTION

The Village of Jackson Police Department currently employs 11 full-time sworn officers and additional support staff. Prior to construction of the new Municipal Complex in 2022, the Department occupied approximately 2,497 square feet of the building at N168 W20733 Main Street that also housed the Jackson Village Hall, plus 1,600 square feet of garage space.

In August 2016, the “Village of Jackson Space Needs Analysis” was completed for the Village by Cedar Corporation, which recommended a significantly larger police facility in conjunction with other Village services. In 2022, the Village completed construction of a new Municipal Complex at N168 W19851 Main Street that houses the police department, fire department, and Village administration to replace the old police station and Village Hall. Additional capacity provided in this new facility to serve future development may be recovered from new development through impact fees.

This chapter includes the majority of the elements for a public facilities needs assessment under Wis. Stats. §66.0617: an inventory of Police facilities, service level standards, deficiencies in the existing facilities, planned improvements and estimated costs, and the proportionate share of the cost of new improvements that are attributable to new development.

EXISTING AND PLANNED POLICE STATION FACILITIES

The Police Department previously occupied 2,497 square feet of space at N168 W20733 Main Street, in the original building built in 1931. This consisted of a small lobby and reception area, office space for the Chief, Sergeant, and Investigator, a small printer room, locker rooms, and an interview room. A lower level housed a small evidence and weapons storage area, a multi-purpose room that was used for breaks, evidence preparation, and as a squad room, along with a holding cell. The Police garage housed four squad cars, larger evidence storage, and ancillary space.

The prior facilities were woefully inadequate for modern Police department needs, with several areas being used for multiple purposes that should remain separate. Specifically, the prior station lacked in fully secure entrance areas, office space, interview rooms, safe victim rooms, proper evidence preparation areas, a larger garage and storage area, plus all ancillary areas the building would need.

In 2022, the Village completed construction of a new Municipal Complex at N168 W19851 Main Street to house the Village Hall, Police Department, and Fire Department, that replaced the old

facilities. Some spaces are shared among all of the departments and are included in each department's area proportionately.

Table 11 - Existing Police Station Facility

Type of Space	Existing Facilities, 2016
	Square Feet ⁽¹⁾
Police	
Office Space	2,497
Garage	1,600

Notes:

(1) Source: Space Needs Analysis, Cedar Corp.

Table 12 - New Police Station Facility

Type of Space	New Facility
	Square Feet ⁽²⁾
Police	
Office Space	9,450
Garage	6,650
Shared Space	
Police Portion	4,335
Fire Portion	6,120

Notes:

(2) Source: Email from Brian Kober, 11/14/2022

SERVICE LEVEL STANDARDS AND DEFICIENCY / GROWTH ANALYSIS

Wisconsin Statutes §66.0617 requires that a public facilities needs assessment identify any deficiencies in existing facilities. It also limits impact fees to recovering only the proportionate share of the cost of facilities required to serve new development as opposed to existing land uses, based on explicitly defined service level standards. Therefore, the share of the cost of new or expanded police station facilities related to remedying any existing deficiencies versus the share related to serving new development must be identified.

The service level standard for police department facilities is not set by Wisconsin Statutes, rather it is determined by amount of facility space that the Village decides is necessary to provide service. Planning and design for the new police station is based on the projected 2040 space needs. Therefore, the service level standard for Police Department facilities is based on the amount of space to be provided to serve the projected 2040 population.

As shown in Table 13, the new police station will provide 2,105 square feet of space per 1,000 population for the projected 2040 population. This service level was used to determine the amount of facility space that would be required to provide the same service level for the existing 2010 population at the time that police impact fees were initially adopted. A 14,212 square foot facility with an efficient layout would have been needed to provide the same level of service for the 2010 population. Therefore, 14,212 square feet of the planned police station is the proportionate share of that facility that is needed to serve the population of the Village as of 2010. The additional 6,223 square feet that is provided in the new police station represents the proportionate share of capacity that is available to serve future growth in Jackson.

Table 13 - Analysis of Police Station Facility Space Needed to Serve Future Development

	Square Feet	Percentage
Service Level Standard		
New Police Facilities	20,435	
2040 Population	9,710	
Service Level per 1,000 Population	2,105	
Space Needed for Current Population		
2010 Population	6,753	
Service Level per 1,000 Population	2,105	
Required Police Station Space - 2010	14,212	
Proportionate Share of New Facility for Current vs. Future Population		
Police Station Space Required for Current Population	14,212	69.5%
Police Station Space for Future Growth	6,223	30.5%
Total Police Station	20,435	100.0%

ALLOCATION OF COSTS AND POLICE IMPACT FEE CALCULATION

The Village incurred \$11,701,611 in capital costs for the new municipal complex. The Police Department constituted 34% of the construction cost, or \$3,978,548. As shown in Table 13, 30.5 percent of the new station represents capacity to serve future development through 2040. Therefore, 30.5 percent or \$1,213,457 of the cost is the proportionate share of the cost that the Village may recover from new development.

Since the Police Department serves both residential and nonresidential development, the impact fee eligible costs must also be allocated between residential and nonresidential development. Costs were allocated between broad categories of land use based on the anticipated equalized value of new development in each category.

The projected value of development for residential, industrial and commercial/institutional development is shown in Table 14. Based on the number of new residential dwelling units and square feet of nonresidential development between 2010 and 2040, and the recent and current value of new construction in the Village, Table 14 shows the projected total value of new development between 2010 and 2040 in current dollars. It is expected that approximately 73.8 percent of new property value will be residential development, while approximately 17.7 percent will be commercial, and 8.5 percent will be industrial.

Table 14 - Allocation of Police Impact Fee Costs to Projected Residential and Nonresidential Development

Police Facilities Allocation	Projected Units 2010-2040	Average Value / Unit	Total Forecast of Value of Improvements	Percent of Total Incremental Value	Allocated Share of Future Growth Costs
Residential ⁽¹⁾	1,491	\$283,482	\$422,671,700	73.8%	\$895,794
Commercial ⁽²⁾			\$101,408,633	17.7%	\$214,922
Industrial ⁽²⁾			\$48,477,409	8.5%	\$102,741
Total			\$572,557,742		\$1,213,457

(1) Residential forecast is based on actual net new construction from 2011 to 2020, plus projected new units at \$300,000 per unit.

(2) Commercial and Industrial forecast is based on actual net new construction from 2011 to 2020, plus 20-year projections from Table 4.

Based on the projected units of new development (residential dwelling units and square feet of nonresidential development), Table 15 shows the impact fee per unit that would be required to recover the eligible costs.

Table 15 - Calculated Police Impact Fees

Development Type	Impact Fee Allocation	Incremental Development 2010-2040	Cost per Unit	Units
Residential	\$895,794	2,957	\$303	per person
Commercial	\$214,922	\$101,408,633	\$2.12	per \$1,000 improvements
Industrial	\$102,741	\$48,477,409	\$2.12	per \$1,000 improvements

The cost per unit for residential units is based on the estimated number of persons per household for dwelling units of various sizes. Since smaller units typically have fewer residents and are of lower property value, it is recommended that the Village adopt lower fees for smaller units. The proposed residential impact fees are shown in Table 16.

Table 16 - Recommended Police Impact Fees for Residential Units

Type of Residence	Fee per Unit	
Single-Family	\$682 per house	at 2.25 persons / unit
Multi-Family	\$530 per unit	at 1.75 persons / unit

CHAPTER FIVE: PARK IMPACT FEE ANALYSIS

INTRODUCTION

This analysis focuses only those parks that are owned by the Village. While other public and privately owned parks and recreational facilities may be available for use by Village residents, the Village may only impose impact fees for costs that the Village will incur; therefore, all standards are based on those facilities that the Village provides and will provide.

The Village of Jackson provides a wide variety of local parks, playgrounds, and land for athletic facilities offering both active and passive recreational opportunities for Jackson residents. Jackson Park, located in the center of the Village, is the main community park, and second largest at 25 acres. A second community park is Hickory Lane Park, in the southeast portion of the Village. Meadowview Park and Reis Memorial Park are small neighborhood parks, sized at 2 and 1 acres, respectively. Cedar Run Park is a large 26-acre passive park along Cedar Creek, with walking trails and a picnic area. Currently, the Village has five parks, and provides a wide array of amenities such as trails, playgrounds, tennis courts, volleyball courts, ice rinks, a splash pad, and baseball and soccer fields. The Village last updated its Parks, Recreation and Open Space Plan (PROSP) in January 2021. The plan recommends many new or improved facilities in the Village's parks as well as development of additional park land.

The Village currently collects a park development fee from new residential development under Section 2-316 of the Municipal Code. Municipalities may impose impact fees for parks, playgrounds, and land for athletic facilities under Wisconsin Statutes §66.0617. Under Wisconsin Statutes §236.45(6), a municipality may impose a fee to fund the acquisition and initial development of land for parks as part of a subdivision ordinance. 'Initial development' of parks includes grading, landscaping, installation of utilities, construction of sidewalks, installation of playground equipment, and construction or installation of restroom facilities. If a municipality imposes a park fee under Wisconsin Statutes §236.45(6), the fee and the process for adopting the fee must meet all the requirements of the impact fee statute, Wisconsin Statutes §66.0617. The ordinance was last amended in 2011, prior to the most recent updates to Wisconsin's impact fee legislation.

To reflect the Village's current plans for new park and recreation land and amenities, and to ensure compliance with Wisconsin Statutes, this chapter includes the majority of the elements for a public facilities needs assessment under Wis. Stats. §66.0617: an inventory of park facilities, service level standards, deficiencies in the existing facilities, planned improvements and estimated costs, and the proportionate share of the cost of new improvements that are attributable to new development.

PARKS, PLAYGROUNDS, AND LAND FOR ATHLETIC FACILITIES

As of 2010, the Village had 68 acres of active and passive parkland. Through a combination of land acquisition and utilization of property already owned by the Village, park land is expected to increase to 76.3 acres in the future, as shown in Table 17.

Table 17 - Existing and Planned Parkland Inventory

<u>Village Parks</u>		2010 Existing Acres	Future Acres
Park Name	Park Type		
Cedar Run Park	Community Park	26.0	26.0
Jackson Park	Community Park	25.0	25.0
Meadowbrook Park	Neighborhood Park	2.0	2.0
Reis Memorial Park	Neighborhood Park	1.0	1.0
Hickory Lane Park	Community Park	14.0	14.0
Cedar Creek @ CTH P	Neighborhood Park	-	5.0
Lake Hasmer Access	Special Purpose Park	-	1.3
Dog Park	Special Purpose Park	-	2.0
Total		68.0	76.3

Source: Village of Jackson Parks, Recreation & Open Space Plan 2021.

The Village's parks provide a wide array of amenities depending on the location and function of each park. Some, such as Jackson Park and Hickory Lane Park, are heavily developed with a variety of facilities, while others, such as Cedar Run Park, primarily provide enjoyment of natural features. The PROSP describes opportunities for several new amenities at Village parks, some of which would rehabilitate or replace existing facilities, and most that would be new facilities for current and future residents. Existing and planned park amenities listed within the PROSP are summarized in Table 18.

One of the main goals in the PROSP is to expand the trail network in the Village and connect all existing trails, in conjunction with regional trails identified by Washington County, to create a cohesive and comprehensive system of trails for non-motorized recreation. Table 19 shows the length of trails that were complete as of 2010 and the planned length of trails in 2040. This includes only those identified by the PROSP that would be the undertaking and responsibility of the Village, not the County or any other entity.

Table 18 - Current and Planned Park Amenities

Park Name	Baseball Field	Basketball Court	Soccer Field	Picnic Area	Concessions	Playfield	Playground	Softball Field	Splash Pad	Tennis Court	Volleyball Court	Ice Skating Rink	Boat Launch	Skate Park	Disc Golf	Walking Trails
Cedar Run Park				1												1
Jackson Park		2	3	3	1	1	2	2		4	4			1	1	
Meadowbrook Park			1	1		1	1									
Reis Memorial Park				1		1	1									
Hickory Lane Park		3	3	1		1	1	1	1		2	1				1
Cedar Creek @ CTH P				1									1			
Lake Hasmer Access													1			
Dog Park																
Total		5	7	8		4	5	3	1	4	6	1	2	1	1	2

Source: Village of Jackson Parks, Recreation & Open Space Plan 2021.

Table 19 - Existing and Planned Trail System

Linear Parks		2010	Future
Trail Section	Trail Type	Feet	Feet
Hickory Lane Park	Park Trails	1,575	1,575
Jackson Drive to Spruce Street	Connector Trails	657	657
Hickory Lane to Sherman Road	Connector Trails	4,175	4,175
Glen Hill Drive to Sherman Road	Connector Trails	2,923	2,923
Crestview Drive to Cedar Creek Road	Connector Trails	629	1,381
Industrial Drive to Hasmer Lake	Connector Trails	3,652	3,652
Apple Lane Park and Ride to Tillie Lake Court	Connector Trails	-	2,961
Main Street Market to Eagle Drive	Connector Trails	-	1,968
Crestview Drive to Jackson Park	Connector Trails	-	2,700
Cedar Creek Trails	Park Trails	-	7,300
Jackson Drive to CTH P	Connector Trails	-	5,220
Cedar Creek Road to Hasmer Lake	Connector Trails	-	4,130
Total		13,611	38,642

Source: Village of Jackson Parks, Recreation & Open Space Plan 2021; Washington County GIS.

SERVICE LEVEL STANDARDS AND DEFICIENCY / GROWTH ANALYSIS

Wisconsin Statutes §66.0617 requires that a public facilities needs assessment identify any deficiencies in existing facilities. It also limits impact fees to recovering only the proportionate share of the cost of facilities required to serve new development as opposed to existing land uses, based on explicitly defined service level standards. Therefore, the share of the cost of new or expanded park facilities related to remedying any existing deficiencies versus the share related to serving new development must be identified.

The service level standard for park facilities is not set by Wisconsin Statutes, rather it is determined by facilities the Village decides is necessary to provide service. Therefore, the service level standard for park facilities is based on the amount of parkland and amenities to be provided to the serve the projected 2040 population.

Table 20 - Analysis of Parkland Service Level Standards and Share of New Parkland Needed to Serve New Development

	Municipal Parks (acres)	Linear Parks (feet)
2010 Existing Space	68.0	13,611
2019 Existing Space	68.0	19,292
Future Space	76.3	38,642
2040 Population	9,710	9,710
Future Service Level Standard (unit per 1,000 pop.)	7.9	3,980
2010 Population	6,753	6,753
Service Level Standard	7.9	3,980
Space Needed to Serve 2010 Population	53.1	26,874
2010 Surplus / (Deficiency)	14.9	(13,263)
Percentage Share to Remedy Deficiencies	0.0%	53.0%
Percentage Share to Serve New Growth	100.0%	47.0%

Table 20 shows the service level standard for parks in terms of acres per 1,000 residents based on the planned parkland acres and projected 2040 population. The existing surplus or deficiency of parkland to serve the 2010 population was evaluated based on the planned service level standards. Surplus or deficiencies in the amount of parkland as of 2010 were

determined by applying the future service level standards to the 2010 population to calculate how much, if any, additional parkland would be needed to serve the 2010 Village population to the same service level standard.

When these standards are applied to the 2010 population and compared to parkland in existence as of 2010, the Village had more than enough parkland to meet the planned service level standards. Therefore, all new parkland acquisitions are attributable to expanding the Village's park system to serve future development. Regarding the planned trail system, based on the service level standards at the future network and population, about 53.0 percent of the planned new trails are needed to provide the planned service level standard for existing residents. The remaining 47.0 percent of the costs of new trails projects can be attributed to new growth and recovered through impact fees.

COST ESTIMATES, ALLOCATION OF COSTS, AND PARK IMPACT FEE CALCULATION

The PROSP did not include cost estimates for the various new parks and improvements recommended. Cost estimates were developed using comparable costs from other communities, average land value in the Jackson area, and average cost for development of trails. In addition, most of the improvements within existing parks were either to upgrade existing facilities or to replace older equipment. Upgrade and replacement costs are not eligible to be funded using impact fees, so the focus of this analysis was on the costs to acquire the land for and develop the new parks and trails identified in the PROSP.

The net cost to be funded by the Village was allocated between the proportionate share needed to serve future growth and costs needed to remedy existing deficiencies or serve the existing Village population. Acquisition and development costs for new parks were allocated based on the percentages shown in Table 20.

Of the total costs, approximately 68 percent, or \$1,639,380, was allocated to future growth and therefore able to be recovered through impact fees. In total, \$770,412 in costs are attributable to existing deficiencies and must be funded by other sources. As the Village completes the various projects, the actual costs may vary from these estimates. However, the amount of impact fee revenues used to finance the projects should be based on the percentages shown in Table 21.

Since park and recreation facilities are primarily used by residents, impact fee costs are allocated entirely to residential development. Based on the projected population increase in the Village of Jackson through 2040, the impact fee eligible cost amounts to \$554 per capita, as shown in Table 22. Based on estimated persons per unit for different sizes and types of dwelling

units, Table 22 shows a recommended schedule of park impact fees per unit for units of various sizes.

Table 21 – Planned Park Improvements and Estimated Costs

Park	Project Description	Costs	Eligible Costs	Deficiency Share	Growth Share	Deficiency Portion	Growth Portion
Trail System	System of Connecting Bicycle and Pedestrian Trails	\$1,213,950	\$1,213,950	53.0%	47.0%	\$643,242	\$570,708
	Acquisition of Land along Cedar	\$40,000	\$40,000	53.0%	47.0%	\$21,195	\$18,805
	Pedestrian access bridge over railroad tracks	\$200,000	\$200,000	53.0%	47.0%	\$105,975	\$94,025
Hickory Lane Park	New playground (completed 2018)	\$313,993	\$97,093	0.0%	100.0%	\$0	\$97,093
New Park @ CTH P & Cedar Creek	Land Acquisition	\$0	\$0	0.0%	100.0%	\$0	\$0
	Development - natural area, picnic table, boat launch, parking	\$150,000	\$150,000	0.0%	100.0%	\$0	\$150,000
Dog Park	Land Acquisition	\$164,000	\$164,000	0.0%	100.0%	\$0	\$164,000
	Development - fencing, trails, waste stations, benches	\$75,000	\$75,000	0.0%	100.0%	\$0	\$75,000
Lake Hasmer	Land Acquisition	\$219,749	\$219,749	0.0%	100.0%	\$0	\$219,749
	Development - shelter w/concessions and restrooms, boat launch/rental	\$100,000	\$100,000	0.0%	100.0%	\$0	\$100,000
New Park @ Eagle Dr. & Hickory Ln.	Development - trail head, boat launch, picnic tables, parking	\$150,000	\$150,000	0.0%	100.0%	\$0	\$150,000
Total		\$2,626,692	\$2,409,792	32.0%	68.0%	\$770,412	\$1,639,380

Table 22 - Park Impact Fee Calculation

<u>Fee Calculation</u>	
<u>Impact Fee Costs per Capita</u>	
Total Impact Fee Eligible Costs	\$1,639,380
2010 - 2040 Population Increase	2,957
Impact Fee Costs per Capita	\$554
<u>Proposed Impact Fee Schedule</u>	
Single-Family Impact Fee	\$1,247 per house at 2.25 persons / unit
Multi-Family Impact Fee	\$970 per unit at 1.75 persons / unit

CHAPTER SIX: WATER IMPACT FEE ANALYSIS

INTRODUCTION

The Village of Jackson first began providing water service in 1969, eliminating the need for individual wells on private properties. All the Village's water comes from ground water, provided by five municipal wells. The Jackson Water Utility was named Water System of the Year in 2007 by the Wisconsin Rural Water Association. The Village began collecting impact fees for water facilities in 2006. Their intent was to pay for the construction of two new wells that would provide additional capacity for new growth.

This chapter includes the majority of the elements for a public facilities needs assessment under Wis. Stats. §66.0617: an inventory of Police facilities, service level standards, deficiencies in the existing facilities, planned improvements and estimated costs, and the proportionate share of the cost of new improvements that are attributable to new development.

EXISTING AND PLANNED WATER FACILITIES

Prior to 2006, the Jackson Water Utility owned four wells actively providing ground water, two elevated tanks providing necessary water pressures and peak water demand, and a distribution system comprised of nearly 38 miles of mains. At that time, the Utility pumped 223 million gallons of water in a year, serving over 2,500 customers and providing water for fire protection.

In 2006, the Utility constructed a new well, Well No. 5, to build additional capacity for future growth. An additional well, Well No. 6, was constructed and placed into service in 2010. At that time, the smallest well, Well No. 2, was taken out of service, as it was extremely undersized and no longer functionally necessary. The distribution system has also since been extended to a total length of almost 52 miles of water mains, serving about 3,500 customers. Table 23 shows the existing water facilities, as of 2021.

In 2017, City Water LLC prepared an update to the Water System Master Plan to evaluate changing water demands, the water system assets, and the Utility's ability to meet future water supply needs. In 2021, City Water LLC also prepared an analysis of expansion of the water system to serve additional service areas. Both documents were reviewed for this analysis for potential inclusion of future facilities in the water impact fee.

Table 23 - Existing Water System Facilities

Water Supply

Well ID / Location	Year Constructed	Capacity (gallons / day)
Well No. 1 / Center Street	1949	604,800
Well No. 2 / Main Street (Not in Service)	n/a	n/a
Well No. 3 / Highland Drive	1979	1,224,000
Well No. 4 / Cedar Parkway	1998	1,584,000
Well No. 5 / Northwest Passage	2006	1,728,000
Well No. 6 / Jackson Drive	2010	1,152,000

Water Storage

Elevated Tank ID	Year Constructed	Capacity (gallons)
No. 1	1969	200,000
No. 2	1995	500,000

Water Distribution

Main Diameter	Length (feet)
4"	1,000
6"	23,585
8"	143,219
10"	1,270
12"	74,427
16"	23,573

The planning documents above describe the ability of the existing facilities to meet the future water demand of the Village of Jackson. One of the conclusions is that with the additions of Wells 5 and 6, the current water supply facilities are sufficient to meet the future demand through 2035. Therefore, no further water supply capacity expansion is anticipated at this time. Additionally, the current storage facility capacity of 700,000 gallons will also meet future demand through the study period of 2035. The 2021 water system expansion analysis of an expansion to a specific area outside of the current water service area confirmed that existing supply and storage facilities can meet future demand without additional expansion.

SERVICE LEVEL STANDARDS AND DEFICIENCY / GROWTH ANALYSIS

Wisconsin Statutes §66.0617 requires that a public facilities needs assessment identify any deficiencies in existing facilities. It also limits impact fees to recovering only the proportionate share of the cost of facilities required to serve new development as opposed to existing land

uses, based on explicitly defined service level standards. Therefore, the share of the cost of new or expanded water system facilities related to remedying any existing deficiencies versus the share related to serving new development must be identified.

The service level standard for water system facilities is not set by Wisconsin Statutes, rather it is determined by amount of water used by a typical water customer of the Jackson Water Utility. Evaluation of the ability of water facilities to meet future demand was based on a review of the engineering plans, trends in water demands in the Village, and the capacity of the facilities as they existed prior to 2006.

One of the key metrics in evaluating the adequacy of a water supply is the ability to provide maximum day water demands with the largest capacity well out of service. Table 24 shows this analysis, both with current facilities and with the facilities as they existed prior to 2006. The projected maximum day water demand in 2035, based on projections of Village growth and maximum demand to average day demand ratio of 2.0, is 1,596,000 gallons in one day. As shown, with the largest well out of service, the water supply could meet this demand with facilities prior to 2006. This means that all future added capacity is needed to serve new growth in the Village and can be recovered through the water impact fees.

Table 24 - Analysis of Water System Facility Capacity

Supply Wells	Design Capacity (gpm)
No. 1	370
No. 3	850
No. 4	1,200
No. 5	1,000
No. 6	800
Total	4,220
Capacity with Largest Well out of service	3,020 gpm
	4,348,800 gpd
Capacity with Largest Well out of service - before 2006	1,220 gpm
	1,756,800 gpd

ALLOCATION OF COSTS AND WATER IMPACT FEE CALCULATION

The cost included in the original impact fee calculation was \$822,663, with the capacity to serve 1,000 residential equivalent units, or REUs. The actual cost of construction of Well No. 5 was recorded as \$859,110. The cost of construction of Well No. 6 was \$529,212.¹ Well No. 6 is sized to provide 80% of the capacity of Well No. 5, so it was determined that Well No. 6 could provide capacity for 800 REUs.

The total cost of the two new wells was \$1,388,322. However, the Village has been collecting water impact fees since 2006. Through 2021, \$1,375,609 has been collected, which is nearly the full cost of the two new wells.

The Village has two water system projects to extend service to future areas of development; one recently completed water main extension and one planned future water main extension. The Village recently completed a 12-inch diameter watermain extension south along County Road P. This water main extension is within the future growth area of the Village and is adjacent to areas planned for future industrial and non-retail commercial development, between USH 45 and CTH P, south to Western Avenue.

The second water system project is a water main extension to expand the high side pressure zone system north of the Village. This would serve new development on the north side of the Village and provide looping between the high- and low-pressure districts. This is a future project for which the timing will be determined by the pace of new development.

The cost of these projects is shown in Table 25. Since both main extensions serve both new development and system looping functions, fifty percent of the costs were included in the proposed water impact fee.

The projected future residential equivalent units are based on the projected growth in the number of households between 2020 and 2040, from Table 3, plus an allowance for nonresidential development. Nonresidential water sales are currently about 50 percent of residential sales. If nonresidential growth occurs in proportion to residential growth, the Village could expect an estimated 1,833 REUs between 2020 and 2040. This compares to 773 REUs between 2010 and 2021. Based on these assumptions, a water impact fee of \$946 is recommended.

¹ Costs obtained from Jackson Water Utility annual reports on file with the Public Service Commission of Wisconsin.

Table 25 - Estimated Water System Expansion Costs and Proposed Impact Fee

Project	Description	Estimated Cost	Impact Fee Portion
Watermain Extension - CTH P	3,368 LF of 12-inch watermain and appurtenances	\$864,383	\$432,191
Watermain Extension - High Side Zone Expansion	10,620 LF of 12-inch watermain and appurtenances	\$2,604,030	\$1,302,015
Total		\$3,468,413	\$1,734,206
Projected Future Residential Equivalent Units (REUs)			1,833
Impact Fee per REU			\$946

CHAPTER SEVEN: SANITARY SEWER SERVICE FEE ANALYSIS

INTRODUCTION

The Village of Jackson owns, maintains, and is responsible for the sanitary sewer collection system and wastewater treatment plant, to handle all sanitary sewage in the Village and portions of the surrounding Towns. The treatment plant was originally constructed in 1978 and has received several upgrades and expansions as the Village has grown. Much of the treatment plant is now nearing the end of its functional life; this and stricter standards for phosphorus treatment require modifications and additions to the existing plant.

The Village began collecting a sewer impact fee in 1999 to pay for a portion of the expansion of the wastewater treatment plant. In 2010, this fee was converted to a sewer service fee and applies to each new connection to the Village sewer system. In 2022, a new facilities plan for the wastewater treatment facility was prepared by Town & Country Engineering, Inc. This document was reviewed and relied upon for the assumptions and projections regarding the treatment plant expansion plans, capacities, and cost estimates that went into the analysis of the updated sewer service fee, as explained in this chapter.

EXISTING AND PLANNED SANITARY SEWER FACILITIES

The sanitary sewer collection system consists of about 44 miles of sewer mains of varying diameters, which flow into one of two main interceptors and from there into the treatment facility. Only one lift station is currently needed within the collection system, to pump wastewater flow from the Twin Creeks subdivision south of Cedar Creek in the southern end of the Village.

Existing facilities for sewer collection and treatment are shown in Table 26. The treatment facility has current capacity to treat 1.69 million gallons per day of wastewater on average, as well as the amount of pollutant loadings shown. While currently the overall amount of flow is not yet at capacity, several of the loadings have exceeded the plant's rated capacity during peak events, as shown in Table 27. The treatment of wastewater includes preliminary, secondary, and tertiary processes, with the disinfection using chlorination and de-chlorination, followed by discharge to Cedar Creek. The complete facility contains about 20 buildings and structures, most of which need replacements or upgrades.

Recommendations in the plan include renovations to most existing buildings, upgrades to the aeration basins, new selector basins for added phosphorus removal, an additional clarifier to increase treatment capacity, the addition of a UV disinfection system, expansion of the storage

garage, construction of a new waste receiving station, and the addition of a new aerobic digester. Once the recommended upgrades and expansions are complete, the facility will have the capacity to treat, on average, 2.046 million gallons of wastewater per day. A breakdown of the recommended plan by facility, and the estimated cost, is shown in Table 28.

Table 26 - Existing Sewer Facilities

Wastewater Treatment Facility

	Design Capacity	Units
Annual Average Flow	1.69	MGD
Max Day Flow	n/a	MGD
Peak Hourly Flow	6.25	MGD
BOD	2,710	lbs / day
TSS	3,188	lbs / day
NH ₃ -N	320	lbs / day
Phosphorus	64	lbs / day

Sanitary Sewer Collection System

Main Diameter	Length (feet)
6"	2,358
8"	142,043
10"	17,642
12"	28,836
15"	11,344
18"	13,798
21"	4,601
24"	5,277
30"	5,846
36"	422

Table 27 - Current Wastewater Treatment Inflows

Current Treatment Demand

	Units	Annual Average (2017-2021)	% of Capacity	Max Monthly Average (2017-2021)	% of Capacity
Annual Average Flow	MGD	1.227	72.6%	1.357	80.3%
BOD	lbs / day	2,555	94.3%	2,685	99.1%
TSS	lbs / day	3,233	101.4%	3,699	116.0%
NH ₃ -N	lbs / day	213	66.6%	216	67.5%
Phosphorus	lbs / day	64	100.0%	73	114.1%

Table 28 - Recommended Facility Plan Cost Estimates

Phase 1 - Administrative, Storage, Tertiary Treatment	<u>Est. Cost (Alt. 3)</u>
05 - Site Work	\$705,750
STR. 10 - Service Building	\$1,523,100
STR. 60 - Tertiary Filter Building	\$2,094,100
STR. 70 - Disinfection Tank	\$579,500
STR. 95 - Storage Garage	\$698,500
Additional Contractor Costs	\$840,200
Electrical Costs	\$1,400,300
Total Phase 1 Construction Cost	\$7,841,450
Phase 2A - Process Upgrade	<u>Est. Cost (Alt. 3)</u>
05 - Site Work	\$1,176,250
05 - Additional Site Work	\$36,800
STR. 15 - Influent Screening Building	\$410,900
STR. 20 - Pretreatment Building	\$761,200
STR. 20 - Existing Waste Station	\$326,600
STR. 25 - Existing Septage Tanks	\$124,000
STR. 30 - Aeration Basins	\$780,500
STR. 31 - RBC Tanks	\$50,000
STR. 32 - Selector Basins	\$961,600
STR. 35 - Aeration Control Building	\$26,700
STR. 40 - Secondary Clarifiers #1 & #2	\$109,000
STR. 45 - Secondary Clarifiers #3 & #4	\$1,215,800
STR. 46 - Secondary Clarifier #6	\$868,100
STR. 50 - Secondary Sludge Building	\$1,002,500
STR. 55 - RAS Pumping Station	\$48,000
STR. 65 - Blower Building	\$330,400
Additional Contractor Costs	\$1,234,300
Electrical Costs	\$2,057,100
Projected Inflationary Increase ⁽¹⁾	\$3,056,409
Total Phase 2A Construction Cost	\$14,576,159
Phase 2B - Solids Handling Upgrade	<u>Est. Cost (Alt. 3)</u>
05 - Site Work	\$470,500
STR. 75 - Gravity Thickener	\$30,000
STR. 81 - Sludge Drying Beds	\$40,000
STR. 82 - Sludge Processing Building	\$1,787,200
STR. 85 - Sludge Storage Tank	\$80,000
STR. 90 - Sludge Pumping Building	\$317,700
STR. 80 - New Aerobic Digestors	\$1,651,800
Additional Contractor Costs	\$656,600
Electrical Costs	\$1,094,300
Projected Inflationary Increase ⁽¹⁾	\$1,625,901
Total Phase 2B Construction Cost	\$7,754,001
Engineering, Admin, Legal, Contingencies	\$6,841,000
Total Project Costs	\$37,012,700

(1) Assumes inflation of 4 percent per year for six years.

SANITARY SEWER SERVICE FEE CALCULATION

While the improvements recommended in the facility plan will be utilizing and repurposing many of the existing structures and buildings, the extent of the renovations will result in what will essentially be a new facility, intended to serve the Village projected population and growth through 2045. Because of this, the fee was calculated in a straightforward manner, using the full estimated costs of the improvements and the entire capacity of the plant after expansion is complete.

The first step in the calculation of the service fee is to determine the unit to which it is charged. Currently, the fee is charged per Residential Equivalent Unit (REU), which is the amount of wastewater a typical residential user in the Village discharges into the treatment plant. In 2010, this was determined to be 300 gallons per day, but wastewater demands have changed since in the past 13 years. Water use (and related wastewater discharge) for residential users has been on a downward trend for several years. The facilities plan contained more recent data on sewer use for all customers of the Village sewer utility. Based on this data, the typical residential customers discharges 41,274 gallons of wastewater per year into the sanitary sewer collection system. However, the treatment plant influent flow is higher than the billed sewer use from customers because it contains infiltration and inflow (I/I). Infiltration and inflow is generally clear water that seeps into the collection system through cracks in the collection mains, usually at times of heavy rain or snow melt. The determination of the REU must account for that I/I, so that it reflects the actual capacity of the planned treatment plant. While the Village is undertaking steps to reduce its I/I, currently it is about 50 percent of influent flows at the treatment plant. The average residential flow per customer, therefore, was multiplied by two to come up with the total REU definition of 82,548 gallons per year.

The planned capacity of the expanded treatment plant is 2.046 million gallons per day, or 746,790,000 gallons per year, as shown in Table 29. The capacity divided by the REU definition results in a total capacity of 9,047 REUs that can be served by the expanded and upgraded treatment plant. Currently, average annual wastewater influent at the plant is the equivalent of 5,574 REUs, so the plant is being designed to serve an additional 3,473 REUs, for both residential and commercial / industrial development, in future growth.

The calculation of the service fee is shown in Table 30. The total cost of the improvements (\$37,012,700) is divided by the total capacity, in REUs, of the planned treatment plant. This results in a sewer service fee of \$4,091 per REU. This will apply to both residential and non-residential development. The number of REUs assigned to a new non-residential use should be

based on an estimate of the proportionate sewer flows it will generate compared to a typical residential customer. The facilities plan is projecting significant commercial and industrial growth, so a substantial share of sewer service fees are expected to be generated from non-residential fees.

Because the Village will likely be issuing debt to finance the improvements to the treatment plant, it should increase the amount of the service fee annually to reflect the interest that it will paying on its debt, in whichever form that ultimately takes. The recommendation of this analysis is to increase the fee annually by the annual interest rate the Village pays on the debt issued for the construction of the plant improvements.

Table 29 - Determination of Residential Equivalent Unit

	<u>Design Capacity</u>
Average Annual Influent Flow	2.046 MGD 746,790,000 gallons
Residential Equivalent Unit	
Average Annual Billed Residential Flow per Customer	41,274 gallons
Plus 50% Infiltration & Inflow	41,274 gallons
Total Residential Equivalent Unit	82,548 gallons
Number of REUs in Design Capacity	9,047

Table 30 - Calculation of Sewer Service Fee

Total Project Costs	\$37,012,700
Total REUs Served	9,047
Cost per REU	\$4,091
New REUs Served	3,473

CHAPTER EIGHT: RECOMMENDED FEES AND IMPLEMENTATION

INTRODUCTION

The purpose of this study was to prepare a public facilities needs assessment and calculate an appropriate impact fee that recovers the proportionate share of the capital cost of new or expanded fire, parks, police, water and sewer facilities in the Village of Jackson to serve new development. The report fulfills the public facilities needs assessment procedural requirement under Wisconsin Statutes §66.0617.

To determine the appropriate amount of the fees, the following analysis was performed:

- An inventory was conducted of the existing facilities in the Village.
- Forecasts were made regarding future conditions in the Village.
- Service level standards to be provided by the planned facilities were determined.
- Costs of the planned projects were allocated to the proportionate share of facilities that are needed to serve new development during the planning period.
- A schedule of proposed impact fees was calculated for each facility type.

RECOMMENDED IMPACT FEE SCHEDULE

Based on the analyses described above, this study recommends that the Village can impose impact fees up to the amounts shown in Table 31. This amount reflects the maximum amount that the Village could impose, based on the application of Wisconsin Statutes 66.0617. The Village may choose to impose a lesser amount as a matter of policy.

Wisconsin Statutes allow, but do not require, municipalities to designate different impact fees for specific areas in the municipality based on differences in the facilities needed to serve those areas. This report recommends adopting uniform Village-wide impact fees, as the planned facilities will benefit the entire Village.

The proposed fees should be imposed on all new development in the Village, and on redevelopment that results in a new or intensified use of a property. For example, if a commercial property is redeveloped with residential uses, park impact fees may be imposed. Fire and police impact fees may be imposed if the redevelopment results in a more intense use of the property.

Table 31 - Existing and Proposed Impact Fees

Type of Fee	Current Fee	Recommended Fee
Sewer Service Fee	\$4,000	\$4,091 per Residential Equivalent Unit
Water Impact Fee	\$820	\$946 per Residential Equivalent Unit
Park Service Fee		
Single-Family	\$850	\$1,247 per dwelling
Multi-Family	\$740	\$970 per unit
Police and Fire Facilities Impact Fee		
Single-Family	\$1,430	per dwelling
Multi-Family	\$1,280	per unit
Non-Residential	\$2.80	per \$1000 of improvements
Fire Impact Fee		
Single-Family		\$1,022 per dwelling
Multi-Family		\$795 per unit
Non-Residential		\$3.18 per \$1000 of improvements
Police Impact Fee		
Single-Family		\$682 per dwelling
Multi-Family		\$530 per unit
Non-Residential		\$2.12 per \$1000 of improvements

IMPACT ON THE AVAILABILITY OF AFFORDABLE HOUSING

One of the requirements of Wisconsin Statute §66.0617 is to estimate the cumulative effect of all proposed and existing impact fees on the availability of affordable housing within the municipality. A generally accepted definition determines housing as affordable if a household spends less than 30 percent of their income on housing expenses.

The Washington County area median income, according to the most recent data from the Wisconsin Housing and Economic Development Authority, is \$85,000 for a three-person household, meaning housing costs would need to be less than \$2,125 per month to be considered affordable for the median 3-person household. This equates to a mortgage payment, including property taxes, on a home valued at around \$325,000, assuming a 10 percent down payment and a 30-year loan at 6 percent interest. For the same size household making only 60

percent of the area median income, or \$51,000 per year, a home with a value of about \$195,000 would be considered affordable, with a monthly payment of \$1,275.

A search on the real estate website Zillow.com² reveals a number of newly constructed homes currently for sale. The sale prices range from \$499,000 to \$556,000 for 3-4 bedroom single-family homes. It also lists a newly constructed 3-bedroom condominium for sale for \$290,000 in the Stonewall Heights development. Based on the current market, new housing construction, which would be the only housing that would pay the impact fees, is generally not affordable for households at or below the median household income in the Village.

Based on the cost of new housing, this evaluation concludes that the imposition of impact fees will not have a direct impact on affordable housing, because the affordable housing available in the Village of Jackson consists of older homes that would not be subject to impact fees when they are sold on the market. Furthermore, impact fees on new housing construction functions to offset the amount of general tax levy funds that are needed to pay for the construction of the public facilities for which impact fees are imposed. This serves to aid the affordability of ongoing housing costs for existing Village residents and property owners.

Also, as stated in the Village's comprehensive plan, the Village is a member of the HOME Consortium, which serves the housing needs of Jefferson, Ozaukee, Washington, and Waukesha Counties. This organization exists to aid in the creation of affordable housing through assistance with down payments and existing home rehabilitation funding assistance, among other services. These programs are available to households that earn less than 80 percent of the area median income. Impact fees on new housing would not affect the ability of households to take advantage of them.

ENACTING THE IMPACT FEE ORDINANCE

Prior to amending a local ordinance to impose impact fees on new development, a municipality must comply with the following procedural requirements:

1. Prepare a needs assessment for the public facilities for which it is anticipated that impact fees may be imposed. The public facilities needs assessment shall include the following:
 - a. An inventory of existing public facilities, including identification of any existing deficiencies in those public facilities, for which it is anticipated that an impact fee may be imposed.

² On February 9, 2023

- b. An identification of new, improved or expanded public facilities that will be required because of new development, or the identification of excess capacity in existing public facilities that are used by new development. This shall be based upon an explicit level of service and standards.
 - c. A detailed estimate of the capital costs of providing or constructing the new, improved or expanded public facilities, including an estimate of the cumulative effect of all proposed and existing impact fees on the availability of affordable housing within the municipality.
2. Publish a Class 1 notice of a public hearing on the proposed ordinance that specifies where a copy of the proposed ordinance and public facilities needs assessment may be obtained.
3. Hold a public hearing prior to enacting or amending an ordinance to impose impact fees. The public facilities needs assessment must be available for public review for at least 20 days before the date of the hearing.

IMPOSITION AND COLLECTION OF FEES

Impact fees may be imposed on persons developing land, where development is defined as the creation of additional residential dwelling units that create the need for new, expanded or improved public facilities. In other words, development can mean the construction of a new residential building, or the expansion or remodeling of an existing building that results in a use that requires a higher demand for public services than the previous use.

The impact fees collected must be reduced to compensate for other capital costs imposed by the municipality to provide or pay for public facilities due to new land development. For example, if a developer is required to contribute land, facilities or other items of value to provide a facility that a municipality would otherwise fund with impact fees, then the impact fee charged to the developer must be reduced proportionately.

In general, impact fees may not be collected until a building permit is issued. However, 2017 Wisconsin Act 243 modified Wisconsin Statutes §66.0617(6) to require that if the total impact fees imposed on a development are more than \$75,000, the municipality must allow the developer to defer payment of the fees for four years or until 6 months before the municipality incurs costs to construct the facility for which the impact fees are imposed. While fees are deferred, the developer must maintain a bond or irrevocable letter of credit in the amount of the unpaid fees.

2017 Wisconsin Act 243 also created Wisconsin Statutes §66.0617(7) that requires a municipality to provide the developer that pays the impact fees with an accounting of how the impact fees will be spent.

MANAGING IMPACT FEES

Impact fees must be placed into segregated accounts, meaning each type of fee has its own account. The impact fees and any interest earned on the account balance must be expended only for the facilities for which the fees have been imposed. Impact fees may be used to pay directly for project costs or may be used to pay for the debt service on bonds issued to finance a capital project.

In order to ensure that impact fees are not used to pay for more than the proportionate share of capital costs for facilities needed to serve new development, the public facilities needs assessment should be referenced when determining the amount of impact fee revenues to apply to funding for a specific facility. If a project is modified from what is detailed in the needs assessment, it may be necessary to review and update the needs assessment and impact fee ordinance.

Impact fees that are collected but are not used within a reasonable period after collection to pay for the capital costs for which they were imposed must be refunded to the payer of the fees. 2017 Wisconsin Act 243 amended the impact fee statute to change the time limits for spending impact fees. The current time limits require impact fees and accumulated interest earnings to be spent within 8 years of when the fees are collected for most public facilities, and 10 years for sanitary sewerage facilities. It also changed the refund requirement to have the refund made to the payer of the fees instead of the current property owner at the time of the refund.

It is recommended that the Village take the following steps to ensure that impact fees are expended within the statutory time limits and that the fees are properly applied to the project shown in the public facilities needs assessment:

- Maintain a spreadsheet or other list of the amounts collected, showing the date paid, tax key, property owner, number of units, fee per unit, and total amount paid for each type of fee.
- Maintain a spreadsheet showing the project costs funded through impact fees. At a minimum, it should show the year of the project, a brief description, total cost (including construction and legal, engineering, etc.), the amount financed from impact fees, the amount borrowed, a debt service schedule and the share of debt service to be

paid from impact fees. Ideally, this spreadsheet would also be linked to a sheet showing the balance of impact fee funds by account, showing payments made from each impact fee for cash financing and debt service payments.

ANNUAL ADJUSTMENT AND PERIODIC REVIEW

It is further recommended that the Village increase the amount of the fees each year by an inflationary factor to make the fees more inter-generationally equitable, in that the amount of the fee paid by any new development is approximately equal to the amount paid in any other year, adjusted for inflation. Fees may be adjusted by the annual increase in an inflation index, such as CPI or the Construction Cost Index published by Engineering News Record, or by a fixed rate tied to an established percentage, such as the interest on a loan, as mentioned in Chapter 7 for the sewer service charge.

The impact fees calculated in this report were based on numerous assumptions and forecasts in future development and service levels provided by the Village. The exact specifications of public facilities' design and costs may vary from the estimates developed through the analysis of this report. Therefore, it is recommended that the impact fees be reviewed on a consistent basis to adjust for changes in inflation, development trends or major changes in project plans, ideally on a schedule of every three to five years.



Building a Better World
for All of Us®

July 25, 2023

RE: Village of Jackson
The Oaks of Jackson
Application for Payment No. 2
SEH No. JACKV 170026 73.00

Brian Kober, P.E.
Director of Public Works & Village Engineer
Village of Jackson
W194N16660 Eagle Drive
Jackson, WI 53037

Dear Brian:

In accordance with Article 15 of the General Conditions of the contract for The Oaks of Jackson Project, we submit our pay recommendation for Application for Payment No. 2 for processing by the Village.

Per the enclosed spreadsheet, D.F. Tomasini Contractors, Inc. has earned \$516,092.59 through the second work period ending July 15, 2023. All quantities through this second work period have been agreed upon. Work performed during this period included:

- Installation of storm sewer, water main, water services and sump lines
- Relocation of hydrant

We recommend that the Village make a payment to D.F. Tomasini Contractors, Inc. for the work as described above. The Village should retain an additional \$11,270.61 in contractor earnings, for a total of \$48,885.49 (5% of the first 50% of work completed). Accordingly, we recommend the Village make a payment in the amount of \$504,821.98.

Following your review of the above, please advise if there are any questions.

Sincerely,

Robert W. Malzahn, P.E.
Project Engineer

Enclosure: Pay Application No. 2
DFT Application for Payment No. 2

c: Mike Court, SEH
Jake Baneck, D.F. Tomasini Contractors, Inc.
Dillon Reynolds, SEH

Engineers | Architects | Planners | Scientists

Short Elliott Hendrickson Inc., 501 Maple Avenue, Delafield, WI 53018-9351
SEH is 100% employee-owned | sehinc.com | 262.646.6855 | 888.908.8166 fax



Application for Payment No. 2

Contractor DF Tomasini Inc.
N70W25176 Indian Grass Lane
Sussex, WI 53089

Contract For The Oaks of Jackson

Owner Village of Jackson

Project No. JACKV 170026

Contract Date April 18, 2023

Contract Amount \$1,955,419.53

For Period Ending July 15, 2023

Item No.	Item	Unit	Unit Price	CONTRACT		THIS PAYMENT		WORK TO DATE		BALANCE TO	PERCENT
				Quantity	Amount	Quantity	Amount	Quantity	Amount	FINISH	COMPLETE
SECTION 100 EROSION CONTROL AND SITE GRADING ITEMS											
100-01	Mobilization	LS	\$ 30,350.00	1.00	\$ 30,350.00	0.0	\$ -	1.0	\$ 30,350.00	\$ -	100.00%
100-02	Clearing and Grubbing	AC	\$ 13,755.00	3.00	\$ 41,265.00	0.0	\$ -	3.0	\$ 41,265.00	\$ -	100.00%
100-03	Tree Protection Fence	LF	\$ 3.99	600.00	\$ 2,394.00	0.0	\$ -	0.0	\$ -	\$ 2,394.00	0.00%
100-04	Silt Fence	LF	\$ 1.77	2,400.00	\$ 4,248.00	0.0	\$ -	1,624.0	\$ 2,874.48	\$ 1,373.52	67.67%
100-05	Sediment Logs	EA	\$ 126.25	120.00	\$ 15,150.00	0.0	\$ -	0.0	\$ -	\$ 15,150.00	0.00%
100-06	Tracking Pad	EA	\$ 4,337.00	1.00	\$ 4,337.00	0.0	\$ -	1.0	\$ 4,337.00	\$ -	100.00%
100-07	Inlet Protection Type A	EA	\$ 253.00	4.00	\$ 1,012.00	0.0	\$ -	0.0	\$ -	\$ 1,012.00	0.00%
100-08	Inlet Protection Type C	EA	\$ 65.65	17.00	\$ 1,116.05	0.0	\$ -	10.0	\$ 656.50	\$ 459.55	58.82%
100-09	Inlet Protection Type D	EA	\$ 126.25	9.00	\$ 1,136.25	0.0	\$ -	0.0	\$ -	\$ 1,136.25	0.00%
100-10	Strip and Stockpile Topsoil	LS	\$ 43,831.00	1.00	\$ 43,831.00	0.00	\$ -	0.8	\$ 32,873.25	\$ 10,957.75	75.00%
100-11	Site Grading	LS	\$ 134,086.00	1.00	\$ 134,086.00	0.00	\$ -	0.8	\$ 100,564.50	\$ 33,521.50	75.00%
100-12	Basin Construction	LS	\$ 3,651.00	2.00	\$ 7,302.00	0.0	\$ -	2.0	\$ 7,302.00	\$ -	100.00%
100-13	Respread Topsoil, Seed, and Fertilizer	SY	\$ 0.71	60,000.00	\$ 42,600.00	0.0	\$ -	7,760.0	\$ 5,509.60	\$ 37,090.40	12.93%
100-14	Erosion Mat Class I Type A	SY	\$ 1.57	8,000.00	\$ 12,560.00	0.0	\$ -	7,400.0	\$ 11,618.00	\$ 942.00	92.50%
100-15	Erosion Mat Class II Type B	SY	\$ 3.13	2,600.00	\$ 8,138.00	0.0	\$ -	360.0	\$ 1,126.80	\$ 7,011.20	13.85%
100-16	Erosion Mat Class III Type B	SY	\$ 15.66	200.00	\$ 3,132.00	0.0	\$ -	24.9	\$ 389.62	\$ 2,742.38	12.44%
100-17	Straw Mulch	SY	\$ 0.35	55,000.00	\$ 19,250.00	0.0	\$ -	0.0	\$ -	\$ 19,250.00	0.00%
	Subtotal:				\$ 371,907.30		\$ -		\$ 238,866.75	\$ 133,040.55	64.23%
SECTION 200 ROADWAY ITEMS											
200-01	Base Repair	CY	\$ 50.00	250.00	\$ 12,500.00	0.0	\$ -	0.0	\$ -	\$ 12,500.00	0.00%
200-02	Prepare Foundation for HMA Paving	LS	\$ 15,529.76	1.00	\$ 15,529.76	0.0	\$ -	0.0	\$ -	\$ 15,529.76	0.00%
200-03	Base Aggregate Dense 3/4"	TN	\$ 15.57	1,600.00	\$ 24,912.00	0.0	\$ -	0.0	\$ -	\$ 24,912.00	0.00%
200-04	Base Aggregate Dense 1-1/4"	TN	\$ 15.57	6,300.00	\$ 98,091.00	0.0	\$ -	0.0	\$ -	\$ 98,091.00	0.00%
200-05	HMA Pavement 4 LT 58-28 S (3")	SY	\$ 13.94	8,100.00	\$ 112,914.00	0.0	\$ -	0.0	\$ -	\$ 112,914.00	0.00%
200-06	Concrete Curb & Gutter 30" Vertical Face	LF	\$ 19.19	5,100.00	\$ 97,869.00	0.0	\$ -	0.0	\$ -	\$ 97,869.00	0.00%
200-07	Concrete Sidewalk 4-Inch	SF	\$ 4.51	25,900.00	\$ 116,809.00	0.0	\$ -	0.0	\$ -	\$ 116,809.00	0.00%
200-08	Concrete Sidewalk 6-Inch	SF	\$ 8.49	650.00	\$ 5,518.50	0.0	\$ -	0.0	\$ -	\$ 5,518.50	0.00%
200-09	Curb Ramp Detectable Warning Field (Yellow)	SF	\$ 40.40	150.00	\$ 6,060.00	0.0	\$ -	0.0	\$ -	\$ 6,060.00	0.00%
200-10	Geotextile Type SR	SY	\$ 3.04	400.00	\$ 1,216.00	0.0	\$ -	0.0	\$ -	\$ 1,216.00	0.00%
200-11	Geogrid Type SR	SY	\$ 3.04	400.00	\$ 1,216.00	0.0	\$ -	0.0	\$ -	\$ 1,216.00	0.00%
	Subtotal:				\$ 492,635.26		\$ -		\$ -	\$ 492,635.26	0.00%
SECTION 300 SANITARY SEWER ITEMS											
300-01	Connection to Existing Utility	EA	\$ 2,059.14	1.00	\$ 2,059.14	0.0	\$ -	1.0	\$ 2,059.14	\$ -	100.00%
300-02	6-Inch PVC SDR-35 Sanitary Lateral w/ Granular Backfill	LF	\$ 80.42	1,675.00	\$ 134,703.50	0.0	\$ -	1,462.5	\$ 117,614.25	\$ 17,089.25	87.31%

Item No.	Item	Unit	Unit Price	CONTRACT		THIS PAYMENT		WORK TO DATE		BALANCE TO FINISH	PERCENT COMPLETE
				Quantity	Amount	Quantity	Amount	Quantity	Amount		
300-03	8-Inch PVC SDR-35 Sanitary Sewer Main w/ Granular Backfill	LF	\$ 77.92	2,300.00	\$ 179,216.00	0.0	\$ -	2,297.0	\$ 178,982.24	\$ 233.76	99.87%
300-04	Sanitary Manhole 4-FT Diameter	EA	\$ 3,492.55	13.00	\$ 45,403.15	0.0	\$ -	13.0	\$ 45,403.15	\$ -	100.00%
300-05	Sanitary Manhole Internal Chimney Seal	EA	\$ 400.00	13.00	\$ 5,200.00	0.0	\$ -	13.0	\$ 5,200.00	\$ -	100.00%
	Subtotal:				\$ 366,581.79		\$ -		\$ 349,258.78	\$ 17,323.01	95.27%
SECTION 400 STORM SEWER ITEMS											
400-01	Connection to Existing Utility	EA	\$ 2,362.14	2.00	\$ 4,724.28	0.0	\$ -	2.0	\$ 4,724.28	\$ -	100.00%
400-02	Storm Sewer RCP Class V 12-Inch	LF	\$ 59.21	400.00	\$ 23,684.00	375.0	\$ 22,203.75	375.0	\$ 22,203.75	\$ 1,480.25	93.75%
400-03	Storm Sewer RCP Class IV 15-Inch	LF	\$ 63.92	940.00	\$ 60,084.80	809.0	\$ 51,711.28	929.0	\$ 59,381.68	\$ 703.12	98.83%
400-04	Storm Sewer RCP Class III 18-Inch	LF	\$ 66.95	650.00	\$ 43,517.50	596.0	\$ 39,902.20	639.0	\$ 42,781.05	\$ 736.45	98.31%
400-05	Storm Sewer RCP Class III 24-Inch	LF	\$ 90.99	155.00	\$ 14,103.45	122.5	\$ 11,146.28	138.5	\$ 12,602.12	\$ 1,501.34	89.35%
400-06	Storm Sewer RCP Class III 27-Inch	LF	\$ 104.98	75.00	\$ 7,873.50	40.0	\$ 4,199.20	74.0	\$ 7,768.52	\$ 104.98	98.67%
400-07	Storm Sewer HDPE 12-Inch	LF	\$ 39.94	550.00	\$ 21,967.00	544.0	\$ 21,727.36	544.0	\$ 21,727.36	\$ 239.64	98.91%
400-08	Storm Sewer HDPE 15-Inch	LF	\$ 48.22	111.00	\$ 5,352.42	111.0	\$ 5,352.42	111.0	\$ 5,352.42	\$ -	100.00%
400-09	Storm Reinforced Concrete Endwall 12-Inch	EA	\$ 876.00	2.00	\$ 1,752.00	2.0	\$ 1,752.00	2.0	\$ 1,752.00	\$ -	100.00%
400-10	Storm Reinforced Concrete Endwall 18-Inch	EA	\$ 968.00	1.00	\$ 968.00	1.0	\$ 968.00	2.0	\$ 1,936.00	\$ (968.00)	200.00%
400-11	Storm Reinforced Concrete Endwall 27-Inch	EA	\$ 1,456.00	1.00	\$ 1,456.00	0.0	\$ -	1.0	\$ 1,456.00	\$ -	100.00%
400-12	Storm PVC SDR-35 Pipe 6-Inch (Sump System)	LF	\$ 31.78	1,275.00	\$ 40,519.50	681.0	\$ 21,642.18	681.0	\$ 21,642.18	\$ 18,877.32	53.41%
400-13	Storm PVC SDR-35 6-Inch Clean-Out	EA	\$ 697.35	4.00	\$ 2,789.40	0.0	\$ -	0.0	\$ -	\$ 2,789.40	0.00%
400-14	Storm Catch Basin 3-FT Diameter	EA	\$ 2,091.16	4.00	\$ 8,364.64	4.0	\$ 8,364.64	4.0	\$ 8,364.64	\$ -	100.00%
400-15	Storm Inlet Manhole 4-FT Diameter	EA	\$ 2,775.24	8.00	\$ 22,201.92	8.0	\$ 22,201.92	8.0	\$ 22,201.92	\$ -	100.00%
400-16	Storm Inlet Manhole 5-FT Diameter	EA	\$ 3,584.22	3.00	\$ 10,752.66	2.0	\$ 7,168.44	2.0	\$ 7,168.44	\$ 3,584.22	66.67%
400-17	Storm Manhole 4-FT Diameter (Doghouse)	EA	\$ 2,778.30	1.00	\$ 2,778.30	1.0	\$ 2,778.30	1.0	\$ 2,778.30	\$ -	100.00%
400-18	Storm Inlet 2x3-FT	EA	\$ 2,233.99	17.00	\$ 37,977.83	13.0	\$ 29,041.87	17.0	\$ 37,977.83	\$ -	100.00%
400-19	Storm Outlet Structure 4-FT Diameter	EA	\$ 4,127.33	1.00	\$ 4,127.33	0.0	\$ -	1.0	\$ 4,127.33	\$ -	100.00%
400-20	Storm Outlet Structure 5-FT Diameter	EA	\$ 6,229.82	1.00	\$ 6,229.82	0.0	\$ -	1.0	\$ 6,229.82	\$ -	100.00%
	Subtotal:				\$ 321,224.35		\$ 250,159.84		\$ 292,175.64	\$ 29,048.72	90.96%
SECTION 500 WATER MAIN ITEMS											
500-01	Connection to Existing Utility	EA	\$ 4,320.28	2.00	\$ 8,640.56	1.0	\$ 4,320.28	2.0	\$ 8,640.56	\$ -	100.00%
500-02	8-Inch PVC C-900 Water Main w/ Granular Backfill	LF	\$ 74.19	2,600.00	\$ 192,894.00	1,322.0	\$ 98,079.18	2,582.0	\$ 191,558.58	\$ 1,335.42	99.31%
500-03	6-Inch PVC C-900 Water Hydrant Lead w/ Granular Backfill	LF	\$ 148.95	100.00	\$ 14,895.00	64.8	\$ 9,651.96	91.0	\$ 13,554.45	\$ 1,340.55	91.00%
500-04	8-Inch Gate Valve and Box	EA	\$ 2,382.61	7.00	\$ 16,678.27	4.0	\$ 9,530.44	7.0	\$ 16,678.27	\$ -	100.00%
500-05	Hydrant Assembly w/ Granular Backfill	EA	\$ 6,653.11	6.00	\$ 39,918.66	4.0	\$ 26,612.44	6.0	\$ 39,918.66	\$ -	100.00%
500-06	Existing Hydrant Relocation	EA	\$ 2,359.54	2.00	\$ 4,719.08	2.0	\$ 4,719.08	2.0	\$ 4,719.08	\$ -	100.00%
500-07	1-1/4-Inch HDPE SDR-9 Water Service	LF	\$ 47.35	1,875.00	\$ 88,781.25	1,759.0	\$ 83,288.65	1,759.0	\$ 83,288.65	\$ 5,492.60	93.81%
500-08	1-1/4-Inch Water Service Tap and	EA	\$ 304.77	59.00	\$ 17,981.43	48.0	\$ 14,628.96	48.0	\$ 14,628.96	\$ 3,352.47	81.36%
500-09	1-1/4-Inch Water Curb Valve and Box	EA	\$ 314.62	59.00	\$ 18,562.58	48.0	\$ 15,101.76	48.0	\$ 15,101.76	\$ 3,460.82	81.36%
	Subtotal:				\$ 403,070.83		\$ 265,932.75		\$ 388,088.97	\$ 14,981.86	96.28%
PROJECT TOTAL:					\$ 1,955,419.53		\$ 516,092.59		\$ 1,268,390.14	\$ 687,029.39	64.87%
ALTERNATE NO. 3 - Contractor Purchase and Haul Excess Topsoil (ADD/DEDUCT)											
A3-01	Purchase Excess Topsoil and Haul Away	CY	\$ (3.00)	8,000.00	\$ (24,000.00)	0.0	\$ -	0.0	\$ -	\$ (24,000.00)	0.00%

Item No.	Item	Unit	Unit Price	CONTRACT		THIS PAYMENT		WORK TO DATE		BALANCE TO FINISH	PERCENT COMPLETE
				Quantity	Amount	Quantity	Amount	Quantity	Amount		

CONTRACT SUMMARY

ORIGINAL CONTRACT SUM:	\$ 1,955,419.53
NET CHANGE BY CHANGE ORDER:	\$ -
REVISED CONTRACT SUM TO DATE:	\$ 1,955,419.53

TOTAL WORK COMPLETED:	\$ 1,268,390.14
NEW RETAINAGE (5% ON 1ST HALF OF WORK COMPLETED)	\$ 48,885.49
RETAINAGE TO BE PAID:	\$ -
FUNDS TO BE RETAINED:	\$ 48,885.49

TOTAL EARNED LESS DEDUCTIONS AND RETAINAGE:	\$ 1,219,504.65
LESS PREVIOUS APPROVALS FOR PAYMENT:	\$ 714,682.67
CURRENT PAYMENT APPROVED (PAYMENT OF RETAINAGE):	\$ 504,821.98

TOTAL PREVIOUS PAYMENTS TO CONTRACTOR:	\$ 714,682.67
TOTAL PAYMENTS TO CONTRACTOR THIS INVOICE:	\$ 504,821.98
TOTAL PAYMENTS TO CONTRACTOR TO DATE:	\$ 1,219,504.65

APPLICATION AND CERTIFICATION FOR PAYMENT

AIA DOCUMENT G702

PAGE ONE OF 2

TO OWNER:

Village of Jackson
N168W19851 Main Street
Jackson, WI 53037

PROJECT:

The Oaks of Jackson
Jackson, WI

APPLICATION NO:

2 Distribution to:

PERIOD TO:

7/15/23

FROM CONTRACTOR:

D.F. Tomasini Contractors, Inc.
N70 W25176 Indian Grass Lane
Sussex, WI 53089

VIA ARCHITECT:

SEH
501 Maple Avenue
Delafield, WI 53018

PROJECT NOS:

JACKV170026
DFT#2262

CONTRACT FOR: Site Improvements

CONTRACT DATE:

4/18/2023

CONTRACTOR'S APPLICATION FOR PAYMENT

Application is made for payment, as shown below, in connection with the Contract.
Continuation Sheet, AIA Document G703, is attached.

1. ORIGINAL CONTRACT SUM	\$	1,955,419.53
2. Net change by Change Orders	\$	0.00
3. CONTRACT SUM TO DATE (Line 1 + 2)	\$	1,955,419.53
4. TOTAL COMPLETED & STORED TO DATE (Column G on G703)	\$	1,268,390.14
5. RETAINAGE:		
a. % of Completed Work (Column D + E on G703)	\$	48,885.49
b. % of Stored Material (Column F on G703)	\$	0.00
Total Retainage (Lines 5a + 5b or Total in Column I of G703)	\$	48,885.49
6. TOTAL EARNED LESS RETAINAGE (Line 4 Less Line 5 Total)	\$	1,219,504.65
7. LESS PREVIOUS CERTIFICATES FOR PAYMENT (Line 6 from prior Certificate)	\$	714,682.67
8. CURRENT PAYMENT DUE	\$	504,821.98
9. BALANCE TO FINISH, INCLUDING RETAINAGE (Line 3 less Line 6)	\$	735,914.88

CHANGE ORDER SUMMARY	ADDITIONS	DEDUCTIONS
Total changes approved in previous months by Owner		
Total approved this Month		
TOTALS	\$0.00	\$0.00
NET CHANGES by Change Order	\$0.00	

The undersigned Contractor certifies that to the best of the Contractor's knowledge, information and belief the Work covered by this Application for Payment has been completed in accordance with the Contract Documents, that all amounts have been paid by the Contractor for Work for which previous Certificates for Payment were issued and payments received from the Owner, and that current payment shown herein is now due.

CONTRACTOR: D.F. TOMASINI CONTRACTORS, INC.

By:

Mike Benish, President

Date: 6/21/23

State of: Wisconsin

County of: Waukesha

Subscribed and sworn to before me this

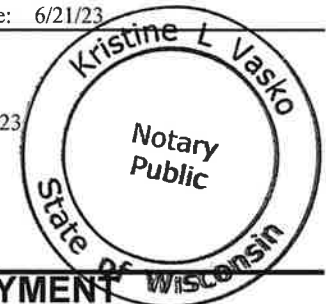
21st day of June, 2023

Notary Public:

Kristine L. Vasko

My Commission expires:

09/25/24



ARCHITECT'S CERTIFICATE FOR PAYMENT

In accordance with the Contract Documents, based on on-site observations and the data comprising the application, the Architect certifies to the Owner that to the best of the Architect's knowledge, information and belief the Work has progressed as indicated, the quality of the Work is in accordance with the Contract Documents, and the Contractor is entitled to payment of the AMOUNT CERTIFIED.

AMOUNT CERTIFIED \$

(Attach explanation if amount certified differs from the amount applied. Initial all figures on this Application and on the Continuation Sheet that are changed to conform with the amount certified.)
ARCHITECT:

By:

Date:

This Certificate is not negotiable. The AMOUNT CERTIFIED is payable only to the Contractor named herein. Issuance, payment and acceptance of payment are without prejudice to any rights of the Owner or Contractor under this Contract.

CONTINUATION SHEET

AIA DOCUMENT G703

2 of 2

AIA Document G702, APPLICATION AND CERTIFICATION FOR PAYMENT, containing Contractor's signed certification is attached.

In tabulations below, amounts are stated to the nearest dollar.

Use Column I on Contracts where variable retainage for line items may apply.

[illegible]

Users may obtain validation of this document by requesting of the license a completed AIA Document D401 - Certification of Document's Authenticity



Building a Better World
for All of Us®

August 23, 2023

RE: Village of Jackson
The Oaks of Jackson
Application for Payment No. 3
SEH No. JACKV 170026 73.00

Brian Kober, P.E.
Director of Public Works & Village Engineer
Village of Jackson
W194N16660 Eagle Drive
Jackson, WI 53037

Dear Brian:

In accordance with Article 15 of the General Conditions of the contract for The Oaks of Jackson Project, we submit our pay recommendation for Application for Payment No. 3 for processing by the Village.

Per the enclosed spreadsheet, D.F. Tomasini Contractors, Inc. has earned \$503,394.00 through the third work period ending August 22, 2023. All quantities through this third work period have been agreed upon. Work performed during this period included:

- Respreading topsoil
- Cement stabilization of road subgrade
- Placing road base, curb & gutter, and asphalt pavement
- Installation of additional water services, sewer lateral, and sump lines

We recommend that the Village make a payment to D.F. Tomasini Contractors, Inc. for the work as described above. The Village should not retain any additional contractor earnings, totaling \$48,885.49 (5% of the first 50% of work completed). Accordingly, we recommend the Village make a payment in the amount of \$503,394.00.

Following your review of the above, please advise if there are any questions.

Sincerely,

Robert W. Malzahn, P.E.
Project Engineer

Enclosure: Pay Application No. 3
DFT Application for Payment No. 3

c: Mike Court, SEH

Engineers | Architects | Planners | Scientists

Short Elliott Hendrickson Inc., 501 Maple Avenue, Delafield, WI 53018-9351
SEH is 100% employee-owned | sehinc.com | 262.646.6855 | 888.908.8166 fax

Application for Payment No. 3
August 23, 2023
Page 2

Jake Baneck, D.F. Tomasini Contractors, Inc.
Dillon Reynolds, SEH



Application for Payment No. 3

Contractor DF Tomasini Inc.
N70W25176 Indian Grass Lane
Sussex, WI 53089

Contract For The Oaks of Jackson

Owner Village of Jackson

Project No. JACKV 170026

Contract Date April 18, 2023

Contract Amount \$1,955,419.53

For Period Ending August 22, 2023

Item No.	Item	Unit	Unit Price	CONTRACT		THIS PAYMENT		WORK TO DATE		BALANCE TO FINISH	PERCENT COMPLETE
				Quantity	Amount	Quantity	Amount	Quantity	Amount		
SECTION 100 EROSION CONTROL AND SITE GRADING ITEMS											
100-01	Mobilization	LS	\$ 30,350.00	1.00	\$ 30,350.00	0.00	\$ -	1.00	\$ 30,350.00	\$ -	100.00%
100-02	Clearing and Grubbing	AC	\$ 13,755.00	3.00	\$ 41,265.00	0.00	\$ -	3.00	\$ 41,265.00	\$ -	100.00%
100-03	Tree Protection Fence	LF	\$ 3.99	600.00	\$ 2,394.00	0.00	\$ -	0.00	\$ -	\$ 2,394.00	0.00%
100-04	Silt Fence	LF	\$ 1.77	2,400.00	\$ 4,248.00	0.00	\$ -	1,624.00	\$ 2,874.48	\$ 1,373.52	67.67%
100-05	Sediment Logs	EA	\$ 126.25	120.00	\$ 15,150.00	0.00	\$ -	0.00	\$ -	\$ 15,150.00	0.00%
100-06	Tracking Pad	EA	\$ 4,337.00	1.00	\$ 4,337.00	0.00	\$ -	1.00	\$ 4,337.00	\$ -	100.00%
100-07	Inlet Protection Type A	EA	\$ 253.00	4.00	\$ 1,012.00	0.00	\$ -	0.00	\$ -	\$ 1,012.00	0.00%
100-08	Inlet Protection Type C	EA	\$ 65.65	17.00	\$ 1,116.05	0.00	\$ -	10.00	\$ 656.50	\$ 459.55	58.82%
100-09	Inlet Protection Type D	EA	\$ 126.25	9.00	\$ 1,136.25	0.00	\$ -	0.00	\$ -	\$ 1,136.25	0.00%
100-10	Strip and Stockpile Topsoil	LS	\$ 43,831.00	1.00	\$ 43,831.00	0.25	\$ 10,957.75	1.00	\$ 43,831.00	\$ -	100.00%
100-11	Site Grading	LS	\$ 134,086.00	1.00	\$ 134,086.00	0.25	\$ 33,521.50	1.00	\$ 134,086.00	\$ -	100.00%
100-12	Basin Construction	LS	\$ 3,651.00	2.00	\$ 7,302.00	0.00	\$ -	2.00	\$ 7,302.00	\$ -	100.00%
100-13	Respread Topsoil, Seed, and Fertilizer	SY	\$ 0.71	60,000.00	\$ 42,600.00	22,240.00	\$ 15,790.40	30,000.00	\$ 21,300.00	\$ 21,300.00	50.00%
100-14	Erosion Mat Class I Type A	SY	\$ 1.57	8,000.00	\$ 12,560.00	0.00	\$ -	7,400.00	\$ 11,618.00	\$ 942.00	92.50%
100-15	Erosion Mat Class II Type B	SY	\$ 3.13	2,600.00	\$ 8,138.00	0.00	\$ -	360.00	\$ 1,126.80	\$ 7,011.20	13.85%
100-16	Erosion Mat Class III Type B	SY	\$ 15.66	200.00	\$ 3,132.00	0.00	\$ -	24.88	\$ 389.62	\$ 2,742.38	12.44%
100-17	Straw Mulch	SY	\$ 0.35	55,000.00	\$ 19,250.00	0.00	\$ -	0.00	\$ -	\$ 19,250.00	0.00%
	Subtotal:				\$ 371,907.30		\$ 60,269.65		\$ 299,136.40	\$ 72,770.90	80.43%
SECTION 200 ROADWAY ITEMS											
200-01	Base Repair	CY	\$ 50.00	250.00	\$ 12,500.00	0.00	\$ -	0.00	\$ -	\$ 12,500.00	0.00%
200-02	Prepare Foundation for HMA Paving	LS	\$ 15,529.76	1.00	\$ 15,529.76	1.00	\$ 15,529.76	1.00	\$ 15,529.76	\$ -	100.00%
200-03	Base Aggregate Dense 3/4"	TN	\$ 15.57	1,600.00	\$ 24,912.00	0.00	\$ -	0.00	\$ -	\$ 24,912.00	0.00%
200-04	Base Aggregate Dense 1-1/4"	TN	\$ 15.57	6,300.00	\$ 98,091.00	4,814.82	\$ 74,966.75	4,814.82	\$ 74,966.75	\$ 23,124.25	76.43%
200-05	HMA Pavement 4 LT 58-28 S (3")	SY	\$ 13.94	8,100.00	\$ 112,914.00	8,261.00	\$ 115,158.34	8,261.00	\$ 115,158.34	\$ (2,244.34)	101.99%
200-06	Concrete Curb & Gutter 30" Vertical Face	LF	\$ 19.19	5,100.00	\$ 97,869.00	5,163.00	\$ 99,077.97	5,163.00	\$ 99,077.97	\$ (1,208.97)	101.24%
200-07	Concrete Sidewalk 4-Inch	SF	\$ 4.51	25,900.00	\$ 116,809.00	560.00	\$ 2,525.60	560.00	\$ 2,525.60	\$ 114,283.40	2.16%
200-08	Concrete Sidewalk 6-Inch	SF	\$ 8.49	650.00	\$ 5,518.50	0.00	\$ -	0.00	\$ -	\$ 5,518.50	0.00%
200-09	Curb Ramp Detectable Warning Field (Yellow)	SF	\$ 40.40	150.00	\$ 6,060.00	0.00	\$ -	0.00	\$ -	\$ 6,060.00	0.00%
200-10	Geotextile Type SR	SY	\$ 3.04	400.00	\$ 1,216.00	0.00	\$ -	0.00	\$ -	\$ 1,216.00	0.00%
200-11	Geogrid Type SR	SY	\$ 3.04	400.00	\$ 1,216.00	0.00	\$ -	0.00	\$ -	\$ 1,216.00	0.00%
	Subtotal:				\$ 492,635.26		\$ 307,258.42		\$ 307,258.42	\$ 185,376.84	62.37%
SECTION 300 SANITARY SEWER ITEMS											
300-01	Connection to Existing Utility	EA	\$ 2,059.14	1.00	\$ 2,059.14	0.00	\$ -	1.00	\$ 2,059.14	\$ -	100.00%
300-02	6-Inch PVC SDR-35 Sanitary Lateral w/ Granular Backfill	LF	\$ 80.42	1,675.00	\$ 134,703.50	29.00	\$ 2,332.18	1,491.50	\$ 119,946.43	\$ 14,757.07	89.04%

Item No.	Item	Unit	Unit Price	CONTRACT		THIS PAYMENT		WORK TO DATE		BALANCE TO FINISH	PERCENT COMPLETE
				Quantity	Amount	Quantity	Amount	Quantity	Amount		
300-03	8-Inch PVC SDR-35 Sanitary Sewer Main w/ Granular Backfill	LF	\$ 77.92	2,300.00	\$ 179,216.00	0.00	\$ -	2,297.00	\$ 178,982.24	\$ 233.76	99.87%
300-04	Sanitary Manhole 4-FT Diameter	EA	\$ 3,492.55	13.00	\$ 45,403.15	0.00	\$ -	13.00	\$ 45,403.15	\$ -	100.00%
300-05	Sanitary Manhole Internal Chimney Seal	EA	\$ 400.00	13.00	\$ 5,200.00	0.00	\$ -	13.00	\$ 5,200.00	\$ -	100.00%
	Subtotal:				\$ 366,581.79		\$ 2,332.18		\$ 351,590.96	\$ 14,990.83	95.91%
SECTION 400 STORM SEWER ITEMS											
400-01	Connection to Existing Utility	EA	\$ 2,362.14	2.00	\$ 4,724.28	0.00	\$ -	2.00	\$ 4,724.28	\$ -	100.00%
400-02	Storm Sewer RCP Class V 12-Inch	LF	\$ 59.21	400.00	\$ 23,684.00	0.00	\$ -	375.00	\$ 22,203.75	\$ 1,480.25	93.75%
400-03	Storm Sewer RCP Class IV 15-Inch	LF	\$ 63.92	940.00	\$ 60,084.80	0.00	\$ -	929.00	\$ 59,381.68	\$ 703.12	98.83%
400-04	Storm Sewer RCP Class III 18-Inch	LF	\$ 66.95	650.00	\$ 43,517.50	0.00	\$ -	639.00	\$ 42,781.05	\$ 736.45	98.31%
400-05	Storm Sewer RCP Class III 24-Inch	LF	\$ 90.99	155.00	\$ 14,103.45	0.00	\$ -	138.50	\$ 12,602.12	\$ 1,501.33	89.35%
400-06	Storm Sewer RCP Class III 27-Inch	LF	\$ 104.98	75.00	\$ 7,873.50	0.00	\$ -	74.00	\$ 7,768.52	\$ 104.98	98.67%
400-07	Storm Sewer HDPE 12-Inch	LF	\$ 39.94	550.00	\$ 21,967.00	0.00	\$ -	544.00	\$ 21,727.36	\$ 239.64	98.91%
400-08	Storm Sewer HDPE 15-Inch	LF	\$ 48.22	111.00	\$ 5,352.42	0.00	\$ -	111.00	\$ 5,352.42	\$ -	100.00%
400-09	Storm Reinforced Concrete Endwall 12-Inch	EA	\$ 876.00	2.00	\$ 1,752.00	0.00	\$ -	2.00	\$ 1,752.00	\$ -	100.00%
400-10	Storm Reinforced Concrete Endwall 18-Inch	EA	\$ 968.00	1.00	\$ 968.00	0.00	\$ -	2.00	\$ 1,936.00	\$ (968.00)	200.00%
400-11	Storm Reinforced Concrete Endwall 27-Inch	EA	\$ 1,456.00	1.00	\$ 1,456.00	0.00	\$ -	1.00	\$ 1,456.00	\$ -	100.00%
400-12	Storm PVC SDR-35 Pipe 6-Inch (Sump System)	LF	\$ 31.78	1,275.00	\$ 40,519.50	632.00	\$ 20,084.96	1,313.00	\$ 41,727.14	\$ (1,207.64)	102.98%
400-13	Storm PVC SDR-35 6-Inch Clean-Out	EA	\$ 697.35	4.00	\$ 2,789.40	4.00	\$ 2,789.40	4.00	\$ 2,789.40	\$ -	100.00%
400-14	Storm Catch Basin 3-FT Diameter	EA	\$ 2,091.16	4.00	\$ 8,364.64	0.00	\$ -	4.00	\$ 8,364.64	\$ -	100.00%
400-15	Storm Inlet Manhole 4-FT Diameter	EA	\$ 2,775.24	8.00	\$ 22,201.92	0.00	\$ -	8.00	\$ 22,201.92	\$ -	100.00%
400-16	Storm Inlet Manhole 5-FT Diameter	EA	\$ 3,584.22	3.00	\$ 10,752.66	0.00	\$ -	2.00	\$ 7,168.44	\$ 3,584.22	66.67%
400-17	Storm Manhole 4-FT Diameter (Doghouse)	EA	\$ 2,778.30	1.00	\$ 2,778.30	0.00	\$ -	1.00	\$ 2,778.30	\$ -	100.00%
400-18	Storm Inlet 2x3-FT	EA	\$ 2,233.99	17.00	\$ 37,977.83	0.00	\$ -	17.00	\$ 37,977.83	\$ -	100.00%
400-19	Storm Outlet Structure 4-FT Diameter	EA	\$ 4,127.33	1.00	\$ 4,127.33	0.00	\$ -	1.00	\$ 4,127.33	\$ -	100.00%
400-20	Storm Outlet Structure 5-FT Diameter	EA	\$ 6,229.82	1.00	\$ 6,229.82	0.00	\$ -	1.00	\$ 6,229.82	\$ -	100.00%
	Subtotal:				\$ 321,224.35		\$ 22,874.36		\$ 315,050.00	\$ 6,174.35	98.08%
SECTION 500 WATER MAIN ITEMS											
500-01	Connection to Existing Utility	EA	\$ 4,320.28	2.00	\$ 8,640.56	0.00	\$ -	2.00	\$ 8,640.56	\$ -	100.00%
500-02	8-Inch PVC C-900 Water Main w/ Granular Backfill	LF	\$ 74.19	2,600.00	\$ 192,894.00	44.00	\$ 3,264.36	2,626.00	\$ 194,822.94	\$ (1,928.94)	101.00%
500-03	6-Inch PVC C-900 Water Hydrant Lead w/ Granular Backfill	LF	\$ 148.95	100.00	\$ 14,895.00	0.00	\$ -	91.00	\$ 13,554.45	\$ 1,340.55	91.00%
500-04	8-Inch Gate Valve and Box	EA	\$ 2,382.61	7.00	\$ 16,678.27	0.00	\$ -	7.00	\$ 16,678.27	\$ -	100.00%
500-05	Hydrant Assembly w/ Granular Backfill	EA	\$ 6,653.11	6.00	\$ 39,918.66	0.00	\$ -	6.00	\$ 39,918.66	\$ -	100.00%
500-06	Existing Hydrant Relocation	EA	\$ 2,359.54	2.00	\$ 4,719.08	0.00	\$ -	2.00	\$ 4,719.08	\$ -	100.00%
500-07	1-1/4-Inch HDPE SDR-9 Water Service	LF	\$ 47.35	1,875.00	\$ 88,781.25	88.00	\$ 4,166.80	1,847.00	\$ 87,455.45	\$ 1,325.80	98.51%
500-08	1-1/4-Inch Water Service Tap and	EA	\$ 304.77	59.00	\$ 17,981.43	2.00	\$ 609.54	50.00	\$ 15,238.50	\$ 2,742.93	84.75%
500-09	1-1/4-Inch Water Curb Valve and Box	EA	\$ 314.62	59.00	\$ 18,562.58	2.00	\$ 629.24	50.00	\$ 15,731.00	\$ 2,831.58	84.75%
	Subtotal:				\$ 403,070.83		\$ 8,669.94		\$ 396,758.91	\$ 6,311.92	98.43%
PROJECT SUBTOTAL:					\$ 1,955,419.53		\$ 401,404.55		\$ 1,669,794.69	\$ 285,624.84	85.39%

Item No.	Item	Unit	Unit Price	CONTRACT		THIS PAYMENT		WORK TO DATE		BALANCE TO FINISH	PERCENT COMPLETE
				Quantity	Amount	Quantity	Amount	Quantity	Amount		
CHANGE ORDER NO. 1 - Subbase Stabilizer											
CO1.1	Mobilization for Cement Stabilization	LS	\$ 5,197.50	1.00	\$ 5,197.50	1.00	\$ 5,197.50	1.00	\$ 5,197.50	\$ -	100.00%
CO1.2	Cement Stabilization (12")	SY	\$ 7.93	10,525.00	\$ 83,463.25	10,525.00	\$ 83,463.25	10,525.00	\$ 83,463.25	\$ -	100.00%
CO1.3	Fine Grading During Stabilization	LS	\$ 13,328.70	1.00	\$ 13,328.70	1.00	\$ 13,328.70	1.00	\$ 13,328.70	\$ -	100.00%
Subtotal, Change Order No. 1					\$ 101,989.45		\$ 101,989.45		\$ 101,989.45		100.00%
OVERALL TOTAL					\$ 2,057,408.98		\$ 503,394.00		\$ 1,771,784.14	\$ 285,624.84	86.12%
ALTERNATE NO. 3 - Contractor Purchase and Haul Excess Topsoil (ADD/DEDUCT)											
A3-01	Purchase Excess Topsoil and Haul Away	CY	\$ (3.00)	8,000.00	\$ (24,000.00)	0.00	\$ -	0.00	\$ -	\$ (24,000.00)	0.00%

CONTRACT SUMMARY

ORIGINAL CONTRACT SUM: \$ 1,955,419.53
NET CHANGE BY CHANGE ORDER: \$ 101,989.45
REVISED CONTRACT SUM TO DATE: \$ 2,057,408.98

TOTAL WORK COMPLETED: \$ 1,771,784.14
NEW RETAINAGE (5% ON 1ST HALF OF WORK COMPLETED) \$ 48,885.49
RETAINAGE TO BE PAID: \$ -
FUNDS TO BE RETAINED: \$ 48,885.49

TOTAL EARNED LESS DEDUCTIONS AND RETAINAGE: \$ 1,722,898.65
LESS PREVIOUS APPROVALS FOR PAYMENT: \$ 1,219,504.65
CURRENT PAYMENT APPROVED (PAYMENT OF RETAINAGE): \$ 503,394.00

TOTAL PREVIOUS PAYMENTS TO CONTRACTOR:	\$ 1,219,504.65
TOTAL PAYMENTS TO CONTRACTOR THIS INVOICE:	\$ 503,394.00
TOTAL PAYMENTS TO CONTRACTOR TO DATE:	\$ 1,722,898.65

APPLICATION AND CERTIFICATION FOR PAYMENT

AIA DOCUMENT G702

PAGE ONE OF 2

TO OWNER:

Village of Jackson
N168W19851 Main Street
Jackson, WI 53037

PROJECT:

The Oaks of Jackson
Jackson, WI

FROM CONTRACTOR:

D.F. Tomasini Contractors, Inc.
N70 W25176 Indian Grass Lane
Sussex, WI 53089

VIA ARCHITECT:

SEH
501 Maple Avenue
Delafield, WI 53018

APPLICATION NO:

3 Distribution to:

PERIOD TO:

8/22/23

PROJECT NOS:

JACK V170026
DFT#2262

CONTRACT FOR: Site Improvements

CONTRACT DATE:

4/18/2023

CONTRACTOR'S APPLICATION FOR PAYMENT

Application is made for payment, as shown below, in connection with the Contract.
Continuation Sheet, AIA Document G703, is attached.

The undersigned Contractor certifies that to the best of the Contractor's knowledge, information and belief the Work covered by this Application for Payment has been completed in accordance with the Contract Documents, that all amounts have been paid by the Contractor for Work for which previous Certificates for Payment were issued and payments received from the Owner, and that current payment shown herein is now due.

1. ORIGINAL CONTRACT SUM

\$ 1,955,419.53

2. Net change by Change Orders

\$ 101,989.45

3. CONTRACT SUM TO DATE (Line 1 ± 2)

\$ 2,057,408.98

4. TOTAL COMPLETED & STORED TO DATE (Column G on G703)

\$ 1,771,784.14

5. RETAINAGE:

a. % of Completed Work \$ 48,885.49
(Column D + E on G703)b. % of Stored Material \$ 0.00
(Column F on G703)

Total Retainage (Lines 5a + 5b or

Total in Column I of G703)

\$ 48,885.49

6. TOTAL EARNED LESS RETAINAGE

\$ 1,722,898.65
(Line 4 Less Line 5 Total)

7. LESS PREVIOUS CERTIFICATES FOR PAYMENT (Line 6 from prior Certificate)

\$ 1,219,504.65

8. CURRENT PAYMENT DUE

\$ 503,394.00

9. BALANCE TO FINISH, INCLUDING RETAINAGE (Line 3 less Line 6)

\$ 334,510.33

CHANGE ORDER SUMMARY	ADDITIONS	DEDUCTIONS
Total changes approved in previous months by Owner		
Total approved this Month	\$101,989.45	
TOTALS	\$101,989.45	\$0.00
NET CHANGES by Change Order	\$101,989.45	

ARCHITECT'S CERTIFICATE FOR PAYMENT

In accordance with the Contract Documents, based on on-site observations and the data comprising the application, the Architect certifies to the Owner that to the best of the Architect's knowledge, information and belief the Work has progressed as indicated, the quality of the Work is in accordance with the Contract Documents, and the Contractor is entitled to payment of the AMOUNT CERTIFIED.

AMOUNT CERTIFIED \$

(Attach explanation if amount certified differs from the amount applied. Initial all figures on this Application and on the Continuation Sheet that are changed to conform with the amount certified.)
ARCHITECT:

By: _____ Date: _____

This Certificate is not negotiable. The AMOUNT CERTIFIED is payable only to the Contractor named herein. Issuance, payment and acceptance of payment are without prejudice to any rights of the Owner or Contractor under this Contract.

CONTINUATION SHEET

AIA Document G702, APPLICATION AND CERTIFICATION FOR PAYMENT, containing Contractor's signed certification is attached.

In tabulations below, amounts are stated to the nearest dollar.

Use Column I on Contracts where variable retainage for line items may apply.

A ITEM NO.	B DESCRIPTION OF WORK	C SCHEDULED VALUE	D WORK COMPLETED		F MATERIALS PRESENTLY STORED (NOT IN D OR E)	G TOTAL COMPLETED AND STORED TO DATE (D+E+F)		H BALANCE TO FINISH (C-G)	I RETAINAGE (IF VARIABLE RATE)
			FROM PREVIOUS APPLICATION (D + E)	THIS PERIOD			%		
1	Erosion Control & Site Grading	371,907.30	238,866.75	60,269.65	-	299,136.40	80.43%	72,770.90	11,943.34
2	Roadway Items	492,635.26	-	307,258.42	-	307,258.42	62.37%	185,376.84	-
3	Sanitary Sewer	366,581.79	349,258.78	2,332.18	-	351,590.96	95.91%	14,990.83	17,462.94
4	Storm Sewer	321,224.35	292,175.64	22,874.36	-	315,050.00	98.08%	6,174.35	-
5	Water Main	403,070.83	388,088.97	8,669.94	-	396,758.91	98.43%	6,311.92	19,479.21
6	Change Order #1	101,989.45	-	101,989.45	-	101,989.45	100.00%	-	-
		2,057,408.98	1,268,390.14	503,394.00	-	1,771,784.14	86%	285,624.84	48,885.49

Users may obtain validation of this document by requesting of the license a completed AIA Document D401 - Certification of Document's Authenticity



August 23, 2023

Village of Jackson
W194 N16660 Eagle Drive
Jackson, WI 53037

Attention: Brian Kober, P.E.
Director of Public Works

Subject: Project: VOJ 23-01
2023 Utility & Street Improvements
CTH P, Sherman Road & Highland Road
Pay Request #2

Dear Mr. Kober:

Enclosed you will find Pay Request #2 for the 2023 Utility and Street Improvements project in the Village of Jackson. The total amount, due to the contractor, has been reduced by five percent (5%) for retainage but not to exceed maximum retainage. The maximum retainage was met with this pay request #2. This is per Article 6.02.A.1 Progress Payments; Retainage, of Contract Document 00500, Agreement:

Total work completed to date	= \$1,129,570.12
Work completed, Pay Request # 2	= \$889,635.11
Retainage, Pay Request #2 (5%)	= \$42,400.91
Total Retainage	= \$54,397.66
Amount due to Contractor, Pay Request #4	= \$847,234.20

If you have any questions or comments, please contact me at (920) 924-5720.

Sincerely,

Todd Drew

Todd Drew
Project Inspector
Gremmer & Associates, Inc.

Project VOJ 23-01
2023 Utility Street Improvements
CTH P, Sherman Road and Highland Road

Pay Request #2
Vinton Construction - Prime Contractor

				Vinton Construction		Pay Request #1		Pay Request #2		Pay Request #3		Pay Request #4		Pay Request #5		Pay Request #6		Cumulative Totals		% Complete
Item No.	Description	Units	Total	Unit Price	Bid Total	Actual Quantity	Total	Actual Quantity	Total	Actual Quantity	Total	Actual Quantity	Total	Actual Quantity	Total	Actual Quantity	Total	Actual Quantity	Total	
100-01	Removing Asphaltic Surface	SY	1,376	\$9.50	\$13,072.00		\$0.00	765	\$7,267.50		\$0.00		\$0.00		\$0.00		\$0.00	765	\$7,267.50	56%
100-02	Removing Curb & Gutter	LF	62	\$10.00	\$620.00		\$0.00	0	\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	0	\$0.00	0%
100-05	Base Aggregate Dense 3/4-Inch	TON	375	\$36.88	\$13,830.00		\$0.00	0	\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	0	\$0.00	0%
100-06	Base Aggregate Dense 1 1/4-Inch	TON	740	\$19.24	\$14,237.60		\$0.00	555	\$10,678.20		\$0.00		\$0.00		\$0.00		\$0.00	555	\$10,678.20	75%
100-07	Asphaltic Surface	TON	325	\$134.00	\$43,550.00		\$0.00	12	\$1,608.00		\$0.00		\$0.00		\$0.00		\$0.00	12	\$1,608.00	4%
100-08	Asphaltic Flumes	SY	15	\$55.00	\$825.00		\$0.00	0	\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	0	\$0.00	0%
100-09	Concrete Curb & Gutter 6-Inch Sloped 30-Inch Type J	LF	62	\$77.00	\$4,774.00		\$0.00	0	\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	0	\$0.00	0%
100-11	Traffic Control	LS	1	\$8,967.00	\$8,967.00		\$0.00	1	\$8,967.00		\$0.00		\$0.00		\$0.00		\$0.00	1	\$8,967.00	100%
100-14	Sawing Asphalt & Concrete	LF	2,361	\$2.50	\$5,902.50		\$0.00	1710	\$4,275.00		\$0.00		\$0.00		\$0.00		\$0.00	1710	\$4,275.00	72%
100-15	Salvaged Topsoil, Seed No. 40, Fertilizer Type B & Erosion Mat Urban Class I Type B	SY	4,150	\$7.04	\$29,216.00		\$0.00	0	\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	0	\$0.00	0%
100-16	Salvaged Topoil, Seed No. 40, Fertilizer Type B & Mulch	SY	1,500	\$6.04	\$9,060.00		\$0.00	0	\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	0	\$0.00	0%
100-19	Culvert Pipe Checks	EACH	6	\$40.00	\$240.00		\$0.00	0	\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	0	\$0.00	0%
100-20	Temporary Ditch Checks	EACH	18	\$27.00	\$486.00		\$0.00	0	\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	0	\$0.00	0%
100-21	Inlet Protection Type B	EACH	1	\$70.00	\$70.00		\$0.00	0	\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	0	\$0.00	0%
100-23	Silt Fence	LF	2,660	\$2.02	\$5,373.20		\$0.00	1686	\$3,405.72		\$0.00		\$0.00		\$0.00		\$0.00	1686	\$3,405.72	63%
100-24	Remove & Replace Driveway Culverts	EACH	3	\$953.00	\$2,859.00		\$0.00	3	\$2,859.00		\$0.00		\$0.00		\$0.00		\$0.00	3	\$2,859.00	100%
100-26	Remove & Replace Tracking Pad	EACH	1	\$3,000.00	\$3,000.00		\$0.00	0	\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	0	\$0.00	0%
100-27	Mobilization	LS	1	\$240,000.00	\$240,000.00		\$0.00	1	\$240,000.00		\$0.00		\$0.00		\$0.00		\$0.00	1	\$240,000.00	100%
100-28	Mobilization Directional Drill	LS	1	\$19,619.00	\$19,619.00		\$0.00	0	\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	0	\$0.00	0%
300-02	Connect to Existing Sanitary Sewer Main	EACH	1	\$2,177.00	\$2,177.00		\$0.00	0	\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	0	\$0.00	0%
300-03	Sanitary Manhole 4-FT Diameter With Casting	EACH	5	\$8,797.00	\$43,985.00		\$0.00	4	\$35,188.00		\$0.00		\$0.00		\$0.00		\$0.00	4	\$35,188.00	80%
300-05	Sanitary Sewer PVC SDR-35 6-Inch	LF	312	\$219.00	\$68,328.00		\$0.00	105	\$22,995.00		\$0.00		\$0.00		\$0.00		\$0.00	105	\$22,995.00	34%
300-06	Sanitary Sewer PVC SDR-35 8-Inch	LF	424	\$389.00	\$164,936.00		\$0.00	401	\$155,989.00		\$0.00		\$0.00		\$0.00		\$0.00	401	\$155,989.00	95%
300-07	Sanitary Sewer PVC SDR-26 8-Inch	LF	1,127	\$326.00	\$367,402.00		\$0.00	900	\$293,400.00		\$0.00		\$0.00		\$0.00		\$0.00	900	\$293,400.00	80%
400-01	Connect to Existing Water Main Pipe	EACH	2	\$4,408.00	\$8,816.00		\$0.00	0	\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	0	\$0.00	0%
400-02	Water Main Steel Casing 24-Inch	LF	90	\$0.00	\$0.00		\$0.00	0	\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	0	\$0.00	#DIV/0!
400-03	Water Main PVC DR-18 6-Inch	LF	77.0	\$102.00	\$7,854.00		\$0.00	0	\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	0	\$0.00	0%
400-04	Water Main PVC DR-18 12-Inch	LF	3,368	\$171.00	\$575,928.00		\$0.00	0	\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	0	\$0.00	0%
400-04B	Water Main HDPE DR-11 Directional Drill	LF	3,100	\$169.90	\$526,690.00		\$0.00	0	\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	0	\$0.00	0%
400-05	Water Gate Valve 6-Inch	EACH	2	\$1,929.00	\$3,858.00		\$0.00	0	\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	0	\$0.00	0%
400-06	Water Gate Valve 12-Inch	EACH	8	\$4,877.00	\$39,016.00		\$0.00	0	\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	0	\$0.00	0%
400-07	Water Tee 12x6-Inch	EACH	2	\$866.00	\$1,732.00		\$0.00	0	\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	0	\$0.00	0%
400-08	Water Tee 12x12-Inch	EACH	1	\$1,485.00	\$1,485.00		\$0.00	0	\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	0	\$0.00	0%
400-09	Water 11.25 Deg Bend 12-Inch	EACH	2	\$769.00	\$1,538.00		\$0.00	0	\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	0	\$0.00	0%
400-10	Water 22.5 Deg Bend 12-Inch	EACH	1	\$790.00	\$790.00		\$0.00	0	\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	0	\$0.00	0%
400-11	Water 45 Deg Bend 12-Inch	EACH	12	\$861.00	\$10,332.00		\$0.00	0	\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	0	\$0.00	0%
400-12	Water Sleeve 12-Inch	EACH	1	\$762.00	\$762.00		\$0.00	0	\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	0	\$0.00	0%
400-13	Water Plug 12-Inch	EACH	1	\$342.00	\$342.00		\$0.00	0	\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	0	\$0.00	0%
400-14	Water Hydrant	EACH	2	\$5,895.00	\$11,790.00		\$0.00	0	\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	0	\$0.00	0%
400-15	Water Manhole 5-FT Diameter with Casting	EACH	1	\$7,685.00	\$7,685.00		\$0.00	0	\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	0	\$0.00	0%
CTH P TOTAL					\$2,261,147.30		\$0.00		\$786,632.42		\$0.00		\$0.00		\$0.00		\$0.00		\$786,632.42	35%
100-01	Removing Asphaltic Surface	SY	111	\$9.50	\$1,054.50	229	\$2,177.40		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	229	\$2,177.40	206%
100-02	Removing Curb & Gutter	LF	23	\$10.00	\$230.00	21	\$206.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	21	\$206.00	90%
100-05	Base Aggregate Dense 3/4-Inch	TON	25	\$56.88	\$1,422.00	19	\$1,104.61		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	19	\$1,104.61	78%
100-06	Base Aggregate Dense 1 1/4-Inch	TON	65	\$19.24	\$1,250.60	90	\$1,731.60		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	90	\$1,731.60	138%
100-07	Asphaltic Surface	TON	32	\$265.00	\$8,480.00	84	\$22,207.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	84	\$22,207.00	262%
100-10	Concrete Curb & Gutter 30-Inch Type D	LF	23	\$109.00	\$2,507.00	21	\$2,245.40		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	21	\$2,245.40	90%
100-11	Traffic Control	LS	1	\$4,155.00	\$4,155.00	1	\$4,155.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	1	\$4,155.00	100%
100-14	Sawing Asphalt & Concrete	LF	218	\$2.50	\$545.00	580	\$1,450.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	580	\$1,450.00	266%
100-17	Topsoil, Seed No. 40, Fertilizer Type B & Erosion	SY	350	\$8.50	\$2,975.00	866	\$7,361.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	866	\$7,361.00	247%
100-19	Culvert Pipe Checks	EACH	1	\$40.00	\$40.00	0	\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	0	\$0.00	0%
100-20	Temporary Ditch Checks	EACH	3	\$27.00	\$81.00	3	\$81.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	3	\$81.00	100%
100-23	Silt Fence	LF	243	\$3.00	\$729.00	255	\$765.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	255	\$765.00	105%
100-25	Remove, Salvage & Reinstall Riprap	LS	1	\$1,500.00	\$1,500.00	1	\$1,500.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	0%
100-27	Mobilization	EACH	1	\$20,000.00	\$20,000.00	1	\$20,000.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	1	\$20,000.00	100%

Project VOJ 23-01																				
2023 Utility Street Improvements																				
CTH P, Sherman Road and Highland Road																				
300-01	Connect to Existing Sanitary Sewer Manhole	EACH	1	\$2,177.00	\$2,177.00	1	\$2,177.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	1	\$2,177.00	100%
300-03	Sanitary Manhole 4-FT Diameter With Casting	EACH	1	\$9,050.00	\$9,050.00	1	\$9,050.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	1	\$9,050.00	100%
300-05	Sanitary Sewer PVC SDR-35 6-Inch	LF	54	\$280.00	\$15,120.00	54	\$15,120.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	54	\$15,120.00	100%
300-06	Sanitary Sewer PVC SDR-35 8-Inch	LF	400	\$388.00	\$155,200.00	383	\$148,604.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	383	\$148,604.00	96%
SHERMAN ROAD TOTAL				\$226,516.10			\$239,935.01		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$238,435.01	105%
100-01	Removing Asphaltic Surface	SY	515	\$4.60	\$2,369.00		\$0.00	474	\$2,180.40		\$0.00		\$0.00		\$0.00		\$0.00	474	\$2,180.40	92%
100-02	Removing Curb & Gutter	LF	42	\$10.00	\$420.00		\$0.00	54	\$536.00		\$0.00		\$0.00		\$0.00		\$0.00	54	\$536.00	128%
100-03	Removing Concrete Sidewalk & Driveway	SY	65	\$9.00	\$585.00		\$0.00	77	\$695.70		\$0.00		\$0.00		\$0.00		\$0.00	77	\$695.70	119%
100-04	Excavation Common	CY	313	\$30.70	\$9,609.10		\$0.00	313	\$9,609.10		\$0.00		\$0.00		\$0.00		\$0.00	313	\$9,609.10	100%
100-05	Base Aggregate Dense 3/4-Inch	TON	45	\$34.34	\$1,545.30		\$0.00	41	\$1,417.21		\$0.00		\$0.00		\$0.00		\$0.00	41	\$1,417.21	92%
100-06	Base Aggregate Dense 1 1/4-Inch	TON	445	\$19.25	\$8,566.25		\$0.00	282	\$5,420.03		\$0.00		\$0.00		\$0.00		\$0.00	282	\$5,420.03	63%
100-07	Asphaltic Surface	TON	150	\$115.00	\$17,250.00		\$0.00	173	\$19,877.75		\$0.00		\$0.00		\$0.00		\$0.00	173	\$19,877.75	115%
100-08	Asphaltic Flumes	SY	15	\$55.00	\$825.00		\$0.00	5	\$291.50		\$0.00		\$0.00		\$0.00		\$0.00	5	\$291.50	35%
100-10	Concrete Curb & Gutter 30-Inch Type D	LF	453.0	\$30.00	\$13,590.00		\$0.00	464	\$13,920.00		\$0.00		\$0.00		\$0.00		\$0.00	464	\$13,920.00	102%
100-11	Traffic Control	LS	1	\$3,268.00	\$3,268.00		\$0.00	1	\$3,268.00		\$0.00		\$0.00		\$0.00		\$0.00	1	\$3,268.00	100%
100-12	Concrete Sidewalk 4-Inch	SF	1,396	\$8.75	\$12,215.00		\$0.00	1400	\$12,250.00		\$0.00		\$0.00		\$0.00		\$0.00	1400	\$12,250.00	100%
100-13	Concrete Driveway 6-Inch	SY	115	\$89.00	\$10,235.00		\$0.00	136	\$12,059.50		\$0.00		\$0.00		\$0.00		\$0.00	136	\$12,059.50	118%
100-14	Sawing Asphalt & Concrete	LF	537	\$2.50	\$1,342.50		\$0.00	591	\$1,477.50		\$0.00		\$0.00		\$0.00		\$0.00	591	\$1,477.50	110%
100-18	Topsoil, Seed No. 40, Fertilizer Type B & Mulch	SY	665	\$8.20	\$5,453.00		\$0.00	0	\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	0	\$0.00	0%
100-20	Temporary Ditch Checks	EACH	1	\$40.00	\$40.00		\$0.00	0	\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	0	\$0.00	0%
100-22	Inlet Protection Type C	EACH	2	\$70.00	\$140.00		\$0.00	0	\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	0	\$0.00	0%
100-27	Mobilization	EACH	1	\$20,000.00	\$20,000.00		\$0.00	1	\$20,000.00		\$0.00		\$0.00		\$0.00		\$0.00	1	\$20,000.00	100%
300-04	Adjusting Sanitary Sewer Manhole Casting	EACH	1	\$650.00	\$650.00		\$0.00	0	\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	0	\$0.00	0%
400-16	Adjusting Hydrant	EACH	1	\$1,425.00	\$1,425.00		\$0.00	0	\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	0	\$0.00	0%
400-17	Adjusting Water Curb Box	EACH	2	\$412.00	\$824.00		\$0.00	0	\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	0	\$0.00	0%
HIGHLAND ROAD TOTAL				\$110,352.15			\$0.00		\$103,002.69		\$0.00		\$0.00		\$0.00		\$0.00		\$103,002.69	93%
TOTAL					\$2,598,015.55		\$239,935.01		\$889,635.11		\$0.00		\$0.00		\$0.00		\$0.00		\$2,153,137.55	82.88%

Vinton original bid #

\$2,175,906.55

Difference / Increase of

\$422,109.00

Work completed, previous estimate

\$239,935.01

Work completed, this estimate

\$889,635.11

Total work completed

\$1,129,570.12

Retainage, this estimate

\$42,400.91

Total retainage, previous estimates

\$11,996.75

Total retainage

\$54,397.66

Amount due to contractor, this estimate

\$847,234.20

Max retainage to hold =
Based off original bid price

\$11,996.75 Retainage Est #1

\$44,481.76 Retainage Est #2

\$0.00 Retainage Est #3

\$54,397.66

\$42,400.91

Contractor's Application for Payment No. 2

Application Period: 6/17/23-8/18/23	Application Date: 8/23/2023	
To (Owner): Village of Jackson	From (Contractor): Vinton Construction Company	Via (Engineer): Jeff Spaeth
Project: 2023 Utility & Street Improvements	Contract: 2023 Utility & Street Improvements	Gremmer & Associates
Owner's Contract No.:	Contractor's Project No.: 23073	Engineer's Project No.:

Application For Payment Change Order Summary

Approved Change Orders				
Number	Additions	Deductions		
1	\$546,309.00	\$654,300.00		
TOTALS	\$546,309.00	\$654,300.00		
NET CHANGE BY CHANGE ORDERS	-\$107,991.00			

1. ORIGINAL CONTRACT PRICE.....	\$	\$2,175,906.55
2. Net change by Change Orders.....	\$	-\$107,991.00
3. Current Contract Price (Line 1 ± 2).....	\$	\$2,067,915.55
4. TOTAL COMPLETED AND STORED TO DATE		
(Column F total on Progress Estimates).....	\$	\$1,129,570.12
5. RETAINAGE:		
a. 2.5% X \$2,175,906.55 Work Completed.....	\$	\$54,397.66
b. X Stored Material.....	\$	
c. Total Retainage (Line 5.a + Line 5.b).....	\$	\$54,397.66
6. AMOUNT ELIGIBLE TO DATE (Line 4 - Line 5.c).....	\$	\$1,075,172.46
7. LESS PREVIOUS PAYMENTS (Line 6 from prior Application).....	\$	\$227,938.26
8. AMOUNT DUE THIS APPLICATION.....	\$	\$847,234.20
9. BALANCE TO FINISH, PLUS RETAINAGE		
(Column G total on Progress Estimates + Line 5.c above).....	\$	\$1,220,681.35

Contractor's Certification

The undersigned Contractor certifies, to the best of its knowledge, the following:

(1) All previous progress payments received from Owner on account of Work done under the Contract have been applied on account to discharge Contractor's legitimate obligations incurred in connection with the Work covered by prior Applications for Payment;

(2) Title to all Work, materials and equipment incorporated in said Work, or otherwise listed in or covered by this Application for Payment, will pass to Owner at time of payment free and clear of all Liens, security interests, and encumbrances (except such as are covered by a bond acceptable to Owner indemnifying Owner against any such Liens, security interest, or encumbrances); and

(3) All the Work covered by this Application for Payment is in accordance with the Contract Documents and is not defective.

Contractor Signature

By:  Date: 8-23-2023

Payment of: \$ _____
(Line 8 or other - attach explanation of the other amount)

is recommended by: _____
(Engineer) (Date)

Payment of: \$ _____
(Line 8 or other - attach explanation of the other amount)

is approved by: _____
(Owner) (Date)

Approved by: _____
Funding or Financing Entity (if applicable) (Date)

Unit Cost Breakdown

Project: Jackson 2023 Utility Street Improvements

Page 1 of 3

Contractor: Vinton Construction Company

Application Date: 08/23/23

Payment Application #: 2

VCC Job# 23073

ITEM NO.	DESCRIPTION OF WORK	Scheduled-				Work Completed				Total Completed/Stored		Scheduled Vs.	Percent Complete
		Quantity	UOM	Unit Price	Amount	Previous Request		This Request		To Date		Actual	
						Quantity	Amount	Quantity	Amount	Quantity	Amount	Add(Deduct)	
CTH P													
100	100-01 Removing Asphaltic Surface	1,376	SY	\$ 9.50	\$ 13,072.00	-	\$ -	765.00	\$ 7,267.50	765.00	\$ 7,267.50	\$ 5,804.50	55.6%
101	100-02 Removing Curb & Gutter	62	LF	\$ 10.00	\$ 620.00	-	\$ -	-	\$ -	-	\$ -	\$ 620.00	0.0%
102	100-05 Base Aggregate Dense 3/4-Inch	375	TON	\$ 36.88	\$ 13,830.00	-	\$ -	-	\$ -	-	\$ -	\$ 13,830.00	0.0%
103	100-06 Base Aggregate Dense 1 1/4-Inch	740	TON	\$ 19.24	\$ 14,237.60	-	\$ -	555.00	\$ 10,678.20	555.00	\$ 10,678.20	\$ 3,559.40	75.0%
104	100-07 Asphaltic Surface	325	TON	\$ 134.00	\$ 43,550.00	-	\$ -	12.00	\$ 1,608.00	12.00	\$ 1,608.00	\$ 41,942.00	3.7%
105	100-08 Asphaltic Flumes	15	SY	\$ 55.00	\$ 825.00	-	\$ -	-	\$ -	-	\$ -	\$ 825.00	0.0%
106	100-09 Concrete Curb & Gutter 6-Inch	62	LF	\$ 77.00	\$ 4,774.00	-	\$ -	-	\$ -	-	\$ -	\$ 4,774.00	0.0%
107	100-11 Traffic Control	1	LS	\$ 8,967.00	\$ 8,967.00	-	\$ -	1.00	\$ 8,967.00	1.00	\$ 8,967.00	\$ -	100.0%
108	100-14 Sawing Asphalt & Concrete	2,361	LF	\$ 2.50	\$ 5,902.50	-	\$ -	1,710.00	\$ 4,275.00	1,710.00	\$ 4,275.00	\$ 1,627.50	72.4%
109	100-15 Salvaged Topsoil, Seed No. 40,	4,150	SY	\$ 7.04	\$ 29,216.00	-	\$ -	-	\$ -	-	\$ -	\$ 29,216.00	0.0%
110	100-16 Salvaged Topoil, Seed No. 40,	1,500	SY	\$ 6.04	\$ 9,060.00	-	\$ -	-	\$ -	-	\$ -	\$ 9,060.00	0.0%
111	100-19 Culvert Pipe Checks	6	EA	\$ 40.00	\$ 240.00	-	\$ -	-	\$ -	-	\$ -	\$ 240.00	0.0%
112	100-20 Temporary Ditch Checks	18	EA	\$ 27.00	\$ 486.00	-	\$ -	-	\$ -	-	\$ -	\$ 486.00	0.0%
113	100-21 Inlet Protection Type B	1	EA	\$ 70.00	\$ 70.00	-	\$ -	-	\$ -	-	\$ -	\$ 70.00	0.0%
114	100-23 Silt Fence	2,660	LF	\$ 2.02	\$ 5,373.20	-	\$ -	1,686.00	\$ 3,405.72	1,686.00	\$ 3,405.72	\$ 1,967.48	63.4%
115	100-24 Remove & Replace Driveway	3	EA	\$ 953.00	\$ 2,859.00	-	\$ -	3.00	\$ 2,859.00	3.00	\$ 2,859.00	\$ -	100.0%
116	100-26 Remove & Replace Tracking Pad	1	EA	\$ 3,000.00	\$ 3,000.00	-	\$ -	-	\$ -	-	\$ -	\$ 3,000.00	0.0%
117	100-27 Mobilization	1	EA	\$ 240,000.00	\$ 240,000.00	-	\$ -	1.00	\$240,000.00	1.00	\$ 240,000.00	\$ -	100.0%
118	300-02 Connect to Existing Sanitary Sewer	1	EA	\$ 2,177.00	\$ 2,177.00	-	\$ -	-	\$ -	-	\$ -	\$ 2,177.00	0.0%
119	300-03 Sanitary Manhole 4-FT Diameter	5	EA	\$ 8,797.00	\$ 43,985.00	-	\$ -	4.00	\$ 35,188.00	4.00	\$ 35,188.00	\$ 8,797.00	80.0%
120	300-05 Sanitary Sewer PVC SDR-35 6-	312	LF	\$ 219.00	\$ 68,328.00	-	\$ -	105.00	\$ 22,995.00	105.00	\$ 22,995.00	\$ 45,333.00	33.7%
121	300-06 Sanitary Sewer PVC SDR-35 8-	424	LF	\$ 389.00	\$ 164,936.00	-	\$ -	401.00	\$155,989.00	401.00	\$ 155,989.00	\$ 8,947.00	94.6%
122	300-07 Sanitary Sewer PVC SDR-26 8-	1,127	LF	\$ 326.00	\$ 367,402.00	-	\$ -	900.00	\$293,400.00	900.00	\$ 293,400.00	\$ 74,002.00	79.9%
123	400-01 Connect to Existing Water Main	2	EA	\$ 4,408.00	\$ 8,816.00	-	\$ -	-	\$ -		\$ -	\$ 8,816.00	0.0%
124	400-02 Water Main Steel Casing 24-Inch	-	LF	\$ 1,380.00	\$ -	-	\$ -	-	\$ -	-	\$ -	\$ -	#DIV/0!
125	400-03 Water Main PVC DR-18 6-Inch	77	LF	\$ 102.00	\$ 7,854.00	-	\$ -	-	\$ -	-	\$ -	\$ 7,854.00	0.0%
126	400-04 Water Main PVC DR-18 12-Inch	268	LF	\$ 171.00	\$ 45,828.00	-	\$ -	-	\$ -	-	\$ -	\$ 45,828.00	0.0%
127	400-05 Water Gate Valve 6-Inch	2	EA	\$ 1,929.00	\$ 3,858.00	-	\$ -	-	\$ -	-	\$ -	\$ 3,858.00	0.0%
128	400-06 Water Gate Valve 12-Inch	8	EA	\$ 4,877.00	\$ 39,016.00	-	\$ -	-	\$ -	-	\$ -	\$ 39,016.00	0.0%
129	400-07 Water Tee 12x6-Inch	2	EA	\$ 866.00	\$ 1,732.00	-	\$ -	-	\$ -	-	\$ -	\$ 1,732.00	0.0%
130	400-08 Water Tee 12x12-Inch	1	EA	\$ 1,485.00	\$ 1,485.00	-	\$ -	-	\$ -	-	\$ -	\$ 1,485.00	0.0%
131	400-09 Water 11.25 Deg Bend 12-Inch	2	EA	\$ 769.00	\$ 1,538.00	-	\$ -	-	\$ -	-	\$ -	\$ 1,538.00	0.0%
132	400-10 Water 22.5 Deg Bend 12-Inch	1	EA	\$ 790.00	\$ 790.00	-	\$ -	-	\$ -	-	\$ -	\$ 790.00	0.0%

Unit Cost Breakdown

Project: Jackson 2023 Utility Street Improvements

Page 2 of 3

Contractor: Vinton Construction Company

Application Date: 08/23/23

Payment Application #: 2

VCC Job# 23073

ITEM NO.	DESCRIPTION OF WORK	Scheduled-				Work Completed				Total Completed/Stored		Scheduled Vs.	Percent Complete
		Quantity	UOM	Unit Price	Amount	Previous Request		This Request		To Date		Actual	
						Quantity	Amount	Quantity	Amount	Quantity	Amount	Add(Deduct)	
133	400-11 Water 45 Deg Bend 12-Inch	12	EA	\$ 861.00	\$ 10,332.00	-	\$ -	-	\$ -	-	\$ -	\$ 10,332.00	0.0%
134	400-12 Water Sleeve 12-Inch	1	EA	\$ 762.00	\$ 762.00	-	\$ -	-	\$ -	-	\$ -	\$ 762.00	0.0%
135	400-13 Water Plug 12-Inch	1	EA	\$ 342.00	\$ 342.00	-	\$ -	-	\$ -	-	\$ -	\$ 342.00	0.0%
136	400-14 Water Hydrant	2	EA	\$ 5,895.00	\$ 11,790.00	-	\$ -	-	\$ -	-	\$ -	\$ 11,790.00	0.0%
137	400-15 Water Manhole 5-FT Diameter with	1	EA	\$ 7,685.00	\$ 7,685.00	-	\$ -	-	\$ -	-	\$ -	\$ 7,685.00	0.0%
Sherman Road													
200	100-01 Removing Asphaltic Surface	111	SY	\$ 9.50	\$ 1,054.50	229.20	\$ 2,177.40	-	\$ -	229.20	\$ 2,177.40	\$ (1,122.90)	206.5%
201	100-02 Removing Curb & Gutter	23	LF	\$ 10.00	\$ 230.00	20.60	\$ 206.00	-	\$ -	20.60	\$ 206.00	\$ 24.00	89.6%
202	100-05 Base Aggregate Dense 3/4-Inch	25	TON	\$ 56.88	\$ 1,422.00	19.42	\$ 1,104.61	-	\$ -	19.42	\$ 1,104.61	\$ 317.39	77.7%
203	100-06 Base Aggregate Dense 1 1/4-Inch	65	TON	\$ 19.24	\$ 1,250.60	90.00	\$ 1,731.60	-	\$ -	90.00	\$ 1,731.60	\$ (481.00)	138.5%
204	100-07 Asphaltic Surface	32	TON	\$ 265.00	\$ 8,480.00	83.80	\$ 22,207.00	-	\$ -	83.80	\$ 22,207.00	\$ (13,727.00)	261.9%
205	100-10 Concrete Curb & Gutter 30-Inch	23	LF	\$ 109.00	\$ 2,507.00	20.60	\$ 2,245.40	-	\$ -	20.60	\$ 2,245.40	\$ 261.60	89.6%
206	100-11 Traffic Control	1	LS	\$ 4,155.00	\$ 4,155.00	1.00	\$ 4,155.00	-	\$ -	1.00	\$ 4,155.00	\$ -	100.0%
207	100-14 Sawing Asphalt & Concrete	218	LF	\$ 2.50	\$ 545.00	580.00	\$ 1,450.00	-	\$ -	580.00	\$ 1,450.00	\$ (905.00)	266.1%
208	100-17 Topsoil, Seed No. 40, Fertilizer	350	SY	\$ 8.50	\$ 2,975.00	866.00	\$ 7,361.00	-	\$ -	866.00	\$ 7,361.00	\$ (4,386.00)	247.4%
209	100-19 Culvert Pipe Checks	1	EA	\$ 40.00	\$ 40.00	-	\$ -	-	\$ -	-	\$ -	\$ 40.00	0.0%
210	100-20 Temporary Ditch Checks	3	EA	\$ 27.00	\$ 81.00	3.00	\$ 81.00	-	\$ -	3.00	\$ 81.00	\$ -	100.0%
211	100-23 Silt Fence	243	LF	\$ 3.00	\$ 729.00	255.00	\$ 765.00	-	\$ -	255.00	\$ 765.00	\$ (36.00)	104.9%
212	100-25 Remove, Salvage & Reinstall	1	LS	\$ 1,500.00	\$ 1,500.00	1.00	\$ 1,500.00	-	\$ -	1.00	\$ 1,500.00	\$ -	100.0%
213	100-27 Mobilization	1	EA	\$ 20,000.00	\$ 20,000.00	1.00	\$ 20,000.00	-	\$ -	1.00	\$ 20,000.00	\$ -	100.0%
214	300-01 Connect to Existing Sanitary Sewer	1	EA	\$ 2,177.00	\$ 2,177.00	1.00	\$ 2,177.00	-	\$ -	1.00	\$ 2,177.00	\$ -	100.0%
215	300-03 Sanitary Manhole 4-FT Diameter	1	EA	\$ 9,050.00	\$ 9,050.00	1.00	\$ 9,050.00	-	\$ -	1.00	\$ 9,050.00	\$ -	100.0%
216	300-05 Sanitary Sewer PVC SDR-35 6-	54	LF	\$ 280.00	\$ 15,120.00	54.00	\$ 15,120.00	-	\$ -	54.00	\$ 15,120.00	\$ -	100.0%
217	300-06 Sanitary Sewer PVC SDR-35 8-	400	LF	\$ 388.00	\$ 155,200.00	383.00	\$148,604.00	-	\$ -	383.00	\$ 148,604.00	\$ 6,596.00	95.8%
Highland Road													
300	100-01 Removing Asphaltic Surface	515	SY	\$ 4.60	\$ 2,369.00	-	\$ -	474.00	\$ 2,180.40	474.00	\$ 2,180.40	\$ 188.60	92.0%
301	100-02 Removing Curb & Gutter	42	LF	\$ 10.00	\$ 420.00	-	\$ -	53.60	\$ 536.00	53.60	\$ 536.00	\$ (116.00)	127.6%
302	100-03 Removing Concrete Sidewalk &	65	SY	\$ 9.00	\$ 585.00	-	\$ -	77.30	\$ 695.70	77.30	\$ 695.70	\$ (110.70)	118.9%
303	100-04 Excavation Common	313	CY	\$ 30.70	\$ 9,609.10	-	\$ -	313.00	\$ 9,609.10	313.00	\$ 9,609.10	\$ -	100.0%
304	100-05 Base Aggregate Dense 3/4-Inch	45	TON	\$ 34.34	\$ 1,545.30	-	\$ -	41.27	\$ 1,417.21	41.27	\$ 1,417.21	\$ 128.09	91.7%
305	100-06 Base Aggregate Dense 1 1/4-Inch	445	TON	\$ 19.25	\$ 8,566.25	-	\$ -	281.56	\$ 5,420.03	281.56	\$ 5,420.03	\$ 3,146.22	63.3%
306	100-07 Asphaltic Surface	150	TON	\$ 115.00	\$ 17,250.00	-	\$ -	172.85	\$ 19,877.75	172.85	\$ 19,877.75	\$ (2,627.75)	115.2%
307	100-08 Asphaltic Flumes	15	SY	\$ 55.00	\$ 825.00	-	\$ -	5.30	\$ 291.50	5.30	\$ 291.50	\$ 533.50	35.3%
308	100-10 Concrete Curb & Gutter 30-Inch	453	LF	\$ 30.00	\$ 13,590.00	-	\$ -	464.00	\$ 13,920.00	464.00	\$ 13,920.00	\$ (330.00)	102.4%

Unit Cost Breakdown

Project: Jackson 2023 Utility Street Improvements

Page 3 of 3

Contractor: Vinton Construction Company

Application Date: 08/23/23

Payment Application #: 2

VCC Job# 23073

ITEM NO.	DESCRIPTION OF WORK	Scheduled-				Work Completed				Total Completed/Stored		Scheduled Vs.	Percent Complete
		Quantity	UOM	Unit Price	Amount	Previous Request		This Request		To Date		Actual	
						Quantity	Amount	Quantity	Amount	Quantity	Amount	Add(Deduct)	
309	100-11 Traffic Control	1	LS	\$ 3,268.00	\$ 3,268.00	-	\$ -	1.00	\$ 3,268.00	1.00	\$ 3,268.00	\$ -	100.0%
310	100-12 Concrete Sidewalk 4-Inch	1,396	SF	\$ 8.75	\$ 12,215.00	-	\$ -	1,400.00	\$ 12,250.00	1,400.00	\$ 12,250.00	\$ (35.00)	100.3%
311	100-13 Concrete Driveway 6-Inch	115	SY	\$ 89.00	\$ 10,235.00	-	\$ -	135.50	\$ 12,059.50	135.50	\$ 12,059.50	\$ (1,824.50)	117.8%
312	100-14 Sawing Asphalt & Concrete	537	LF	\$ 2.50	\$ 1,342.50	-	\$ -	591.00	\$ 1,477.50	591.00	\$ 1,477.50	\$ (135.00)	110.1%
313	100-18 Topsoil, Seed No. 40, Fertilizer	665	SY	\$ 8.20	\$ 5,453.00	-	\$ -	-	\$ -	-	\$ -	\$ 5,453.00	0.0%
314	100-20 Temporary Ditch Checks	1	EA	\$ 40.00	\$ 40.00	-	\$ -	-	\$ -	-	\$ -	\$ 40.00	0.0%
315	100-22 Inlet Protection Type C	2	EA	\$ 70.00	\$ 140.00	-	\$ -	-	\$ -	-	\$ -	\$ 140.00	0.0%
316	100-27 Mobilization	1	EA	\$ 20,000.00	\$ 20,000.00	-	\$ -	1.00	\$ 20,000.00	1.00	\$ 20,000.00	\$ -	100.0%
317	300-04 Adjusting Sanitary Sewer Manhole	1	EA	\$ 650.00	\$ 650.00	-	\$ -	-	\$ -	-	\$ -	\$ 650.00	0.0%
318	400-16 Adjusting Hydrant	1	EA	\$ 1,425.00	\$ 1,425.00	-	\$ -	-	\$ -	-	\$ -	\$ 1,425.00	0.0%
319	400-17 Adjusting Water Curb Box	2	EA	\$ 412.00	\$ 824.00	-	\$ -	-	\$ -	-	\$ -	\$ 824.00	0.0%
Change Orders													
900	CO1 100-28 Mobilization Directional Drill	1	LS	\$ 19,619.00	\$ 19,619.00	-	\$ -	-	\$ -	-	\$ -	\$ 19,619.00	0.0%
901	CO1 400-04B WM DPE DR-11 Directional Drill	3,100	LF	\$ 169.90	\$ 526,690.00	-	\$ -	-	\$ -	-	\$ -	\$ 526,690.00	0.0%
	Total:				\$ 2,067,915.55		\$239,935.01		\$889,635.11		\$ 1,129,570.12	\$ 938,345.43	
	Less: 5% Retainage						\$ 11,996.75		\$ 42,400.91		\$ 54,397.66		
	Total:						\$227,938.26		\$847,234.20		\$ 1,075,172.46		
	Amount Previously Paid						\$227,938.26		\$ -		\$ 227,938.26		
	Amount DueThis Request								\$847,234.20		\$ 847,234.20		



Taking the lead in Washington County.

Assessment Report for 2023 Utility Street Improvement Project containing Sherman Road Sewer Extension & Highland Road Improvement

Attached is the following information regarding the 2023 Utility Street Improvement Project containing Sherman Road Sewer Extension & Highland Road Improvement:

1. Plans and Specifications used to bid the project and construct.
2. The cost of the two portions of the project was \$350,287.16, the base bid was \$336,868.25 and the amount being special assessed for the project is \$253,025.01. The Engineer's Estimate amount was \$239,772.00 of the project.
3. Schedule of the proposed assessment.

Staff takes the position that the schedule of proposed assessment is a fair and equitable allocation of cost and that each property list in the report is benefiting. All other properties have been reviewed and the allocation has been deemed fair and benefiting. The project consisted of the following items:

Sherman Road Sewer Extension

Installed new sanitary sewer and lateral.

Resurface roadway where utility was installed and landscaped area.

Highland Road Improvements

Installed new Curb & Gutter with sidewalk.

Resurface roadway and landscaped area.

The Village Board has approved to special assess properties along both project areas, which benefited from the project. The Village along the Jackson Sewer and Water Utilities will be paying for the majority of the project, although, the Village has determined the following parts of the project will be assessed to the benefiting properties: **Sanitary Sewer Main, Sanitary Lateral, Curb & Gutter and Sidewalk.**

This report was compiled by Brian W. Kober, P.E., Village Engineer.

Date: August 25, 2023

WI 194N16660
Eagle Drive
Jackson, WI 53037
Phone: 262-677-0707
Fax: 262-677-8770

Mailing Address:
P.O. Box 437

www.villageofjackson.com

Village of Jackson

Sherman Road Sanitary Sewer Extension Project 2023

Oakland Drive to Maple Road

FINAL Assessment

August 25, 2023

Title	First Name	Last Name	City	State	ZIP Code	Physical Address	Mailing Address	Tax Key No	Size of Parcel (Acres)	Residential Equivalent Unit (REU)	Sanitary Lateral Cost	Total Cost of REUs	Total Assessment Amount
Mr. & Mrs.	Albert & Brenna	Sunn	Jackson	WI	53037	W188 N15989 Maple Road	11633 W. Mill Street	V3 074900H	1.05	1	\$15,120.00	\$3,122.43	\$18,242.43
	Sherman Heights LP		Jackson	WI	53037	Maple Rd & Sherman Rd	2018 Sherman Road	T7 0571	38.98	39		\$121,774.80	\$121,774.80
Mr.	Austin	Mozdzen	Jackson	WI	53037	2039 Sherman Road	2039 Sherman Road	T7 073000C	24.38	24		\$74,938.34	\$74,938.34
Mr.	Thomas	Okruhlica	Jackson	WI	53037	1998 Sherman Road	1998 Sherman Road	T7 057100A	1.02	1		\$3,122.43	\$3,122.43
	Heckendorf Farms LLC		Jackson	WI	53037	1997 Sherman Road	1997 Sherman Road	T7 073000B	1.29	1		\$3,122.43	\$3,122.43
Mr. & Mrs.	Guy & Gail	Maciejewski	Jackson	WI	53037	3252 Maple Road	3252 Maple Road	T7 073100B	5.016	1		\$3,122.43	\$3,122.43
Mr. & Mrs.	Francisco & Colleen	Rueda	Jackson	WI	53037	3279 Maple Road	3279 Maple Road	T7 074900J	0.99	1		\$3,122.43	\$3,122.43
Mr. & Mrs.	Gregory & Carla	Harry	Jackson	WI	53037	3255 Maple Road	3225 Maple Road	T7 0749	5.9	1		\$3,122.43	\$3,122.43
Mr. & Mrs.	Andrew & Jaclyn	Hembel	Jackson	WI	53037	3223 Maple Road	3223 Maple Road	T7 074900K	6.22	1		\$3,122.43	\$3,122.43
Ms.	Jean	Wagenknecht	Jackson	WI	53037	3209 Maple Road	3209 Maple Road	T7 074900C	2.99	1		\$3,122.43	\$3,122.43
Mr. & Mrs.	James & Nicolle	Feilbach	Jackson	WI	53037	Maple Road	1915 Western Avenue	T7 073000D	7.32	1		\$3,122.43	\$3,122.43

72

\$239,935.01

Construction Cost minus sanitary lasteral cost

\$224,815.01

Total Cost of Project

\$239,935.01

REU Cost

\$3,122.43

Percentage Accessed

100.00%

FINAL Assessment

August 10, 2023

350.00		\$13,090.00
	Total Cost of Project	\$110,352.15
	Percentage Accessed	11.86%

August 23, 2023

Village of Jackson
W194 N16660 Eagle Drive
Jackson, WI 53037

Attention: Brian Kober, P.E.
Director of Public Works

Subject: Project: VOJ 22-01
STH 60 Utility Upgrades
CTH P – Ridgeway Drive
Pay Request #6

Dear Mr. Kober:

Enclosed you will find Pay Request #6 for the STH 60 Utility Upgrades project in the Village of Jackson. The total amount, due to the contractor, has been reduced by five percent (5%) for retainage but not to exceed maximum retainage; which was met with pay request #4. This is per Article 6.02.A.1 Progress Payments; Retainage, of Contract Document 00500, Agreement:

Total work completed to date	= \$2,754,528.10
Work completed, Pay Request #6	= \$39,921.45
Total Retainage	= \$67,835.84
Amount due to Contractor, Pay Request #6	= \$39,921.45

If you have any questions or comments, please contact me at (920) 924-5720.

Sincerely,



Todd Drew
Project Inspector
Gremmer & Associates, Inc.

Project VOJ 21-01
Coffee Connection Trail
Jackson Drive - Eagle Drive

Pay Request #6
Advance Construction - Prime Contractor

			Advance Construction		Pay Request #1		Pay Request #2		Pay Request #3		Pay Request #4		Pay Request #5		Pay Request #6		Cumulative Totals		% Complete	
Item No.	Description	Unit	Total	Unit Price	Bid Total	Actual Quantity	Total	Actual Quantity	Total	Actual Quantity	Total	Actual Quantity	Total	Actual Quantity	Total	Actual Quantity	Total	Actual Quantity	Total	
100-01	Removing Curb	LF	6	\$7.00	\$42.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	0	\$0.00	0%
100-02	Removing Curb & Gutter	LF	960	\$5.00	\$4,800.00		\$0.00		\$0.00	20.00	\$100.00	192.40	\$962.00	77.00	\$385.00		\$0.00	289	\$1,447.00	30%
100-03	Removing Concrete Sidewalk and Driveways	SY	1,205	\$5.00	\$6,025.00	13.34	\$66.70	28.43	\$142.15	22.89	\$114.45	156.91	\$784.55	248.00	\$1,240.00		\$0.00	470	\$2,347.85	39%
100-04	Base Aggregate Dense 1 1/4-Inch	TON	1,875	\$15.80	\$29,625.00		\$0.00		\$0.00	26.70	\$421.86		\$0.00	1191.90	\$18,832.02		\$0.00	1219	\$19,253.88	65%
100-05	Base Aggregate Open-Graded	TON	1,130	\$23.00	\$25,990.00		\$0.00		\$0.00		\$0.00		\$0.00	590.77	\$13,587.71		\$0.00	591	\$13,587.71	52%
100-06	Concrete Driveway 6-Inch	SY	505	\$75.65	\$38,203.25		\$0.00		\$0.00		\$0.00		\$0.00	289.01	\$21,863.61		\$0.00	289	\$21,863.61	57%
100-07	Concrete Driveway 8-Inch	SY	80	\$77.00	\$6,160.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	0	\$0.00	0%
100-08	Drilled Tie Bars	EACH	525	\$9.00	\$4,725.00		\$0.00		\$0.00		\$0.00		\$0.00	326.00	\$2,934.00		\$0.00	326	\$2,934.00	62%
100-09	HMA Pavement 3 MT 58-28.5	TON	1,110	\$275.00	\$305,250.00		\$0.00		\$0.00		\$0.00	169.35	\$46,571.25	820.00	\$225,500.00	53.87	\$14,814.25	1043.22	\$286,885.50	94%
100-10	HMA Pavement 4 MT 58-28.5	TON	67	\$510.00	\$34,170.00		\$0.00		\$0.00		\$0.00		\$0.00	60.00	\$30,600.00	16.89	\$8,613.90	76.89	\$39,213.90	115%
100-11	Asphaltic Surface	TON	17	\$510.00	\$8,670.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	0	\$0.00	0%
100-12	Asphaltic Surface Driveways and Field Entrances	TON	50	\$510.00	\$25,500.00		\$0.00		\$0.00		\$0.00		\$0.00	45.00	\$22,950.00	27.33	\$13,938.30	72.33	\$36,888.30	145%
100-13	Concrete Curb Type D	LF	6	\$48.00	\$288.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	0	\$0.00	0%
100-14	Concrete Curb & Gutter 30-Inch Type D	LF	960	\$42.75	\$41,040.00		\$0.00		\$0.00		\$0.00		\$0.00	289.00	\$12,354.75		\$0.00	289	\$12,354.75	30%
100-15	Concrete Sidewalk 5-Inch	SF	5,520	\$8.00	\$44,160.00		\$0.00		\$0.00		\$0.00		\$0.00	1690.55	\$13,524.40		\$0.00	1691	\$13,524.40	31%
100-16	Concrete Steps	SF	30	\$55.00	\$1,650.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	0	\$0.00	0%
100-17	Pipe Underdrain Wrapped 4-Inch	LF	200	\$55.00	\$11,000.00		\$0.00		\$0.00		\$0.00	81.00	\$4,455.00	19.00	\$1,045.00		\$0.00	100	\$5,500.00	50%
100-18	Mobilization	EACH	1	\$35,000.00	\$35,000.00		\$0.00		\$0.00	0.75	\$26,250.00	0.25	\$8,750.00		\$0.00		\$0.00	1	\$35,000.00	100%
100-19	Lawn Restoration	SY	900	\$10.00	\$9,000.00		\$0.00		\$0.00	86.04	\$860.40	1221.60	\$12,216.00	15.00	\$150.00		\$0.00	1323	\$13,226.40	147%
100-20	Inlet Protection Type C	EACH	35	\$55.00	\$1,925.00	12	\$660.00	20	\$1,100.00	10.00	\$550.00		\$0.00		\$0.00		\$0.00	42	\$2,310.00	120%
100-21	Geotextile Type SAS	SY	945	\$2.50	\$2,362.50		\$0.00		\$0.00	66.33	\$165.83	29.33	\$73.33		\$0.00		\$0.00	96	\$239.13	10%
100-22	Marking Line Paint 4-Inch	LF	6,405	\$1.35	\$8,646.75		\$0.00		\$0.00		\$0.00		\$0.00	6514.00	\$8,793.90		\$0.00	6514	\$8,793.90	102%
100-23	Marking Line Paint 8-Inch	LF	225	\$2.55	\$573.75		\$0.00		\$0.00		\$0.00		\$0.00	195.00	\$497.25		\$0.00	195	\$497.25	87%
100-24	Marking Arrow Paint	EACH	5	\$95.00	\$475.00		\$0.00		\$0.00		\$0.00		\$0.00	5.00	\$475.00		\$0.00	5	\$475.00	100%
100-25	Marking Word Paint	EACH	1	\$125.00	\$125.00		\$0.00		\$0.00		\$0.00		\$0.00	1.00	\$125.00		\$0.00	1	\$125.00	100%
100-26	Marking Railroad Crossing Paint	EACH	2	\$450.00	\$900.00		\$0.00		\$0.00		\$0.00		\$0.00	2.00	\$900.00		\$0.00	2	\$900.00	100%
100-27	Marking Stop Line Paint 18-Inch	LF	45	\$5.85	\$263.25		\$0.00		\$0.00		\$0.00		\$0.00	67.00	\$391.95		\$0.00	67	\$391.95	149%
100-28	Marking Diagonal Paint 6-Inch	LF	6	\$2.25	\$13.50		\$0.00		\$0.00		\$0.00		\$0.00	20.00	\$45.00		\$0.00	20	\$45.00	333%
100-29	Marking Crosswalk Paint Transverse Line 6-Inch	LF	205	\$2.25	\$461.25		\$0.00		\$0.00		\$0.00		\$0.00	549.00	\$1,235.25		\$0.00	549	\$1,235.25	268%
100-30	Marking Crosswalk Paint Block Style 24-Inch	LF	25	\$7.75	\$193.75		\$0.00		\$0.00		\$0.00		\$0.00	30.00	\$232.50		\$0.00	30	\$232.50	120%
100-31	Conduit Loop Detector	LF	224	\$16.50	\$3,696.00		\$0.00		\$0.00		\$0.00		\$0.00	224.00	\$3,696.00		\$0.00	224	\$3,696.00	100%
100-32	Loop Detector Wire	LF	800	\$2.35	\$1,880.00		\$0.00		\$0.00		\$0.00		\$0.00	800.00	\$1,880.00		\$0.00	800	\$1,880.00	100%
100-33	Sawing Asphalt	LF	8,760	\$2.00	\$17,520.00	15	\$30.00	2274.10	\$4,548.20	3612.50	\$7,225.00	1213.50	\$2,427.00	79.40	\$158.80		\$0.00	7195	\$14,389.00	82%
100-34	Sawing Concrete	LF	2,625	\$3.00	\$7,875.00	25	\$75.00	72	\$216.00	71.00	\$213.00	295.50	\$886.50	218.60	\$655.80		\$0.00	682	\$2,046.30	26%
100-35	Remove and Replace Retaining Wall	LS	1	\$8,990.00	\$8,990.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	0	\$0.00	0%
100-36	Traffic Control and Detour	LS	1	\$25,000.00	\$25,000.00	0.25	\$6,250.00	0.25	\$6,250.00	0.25	\$6,250.00	0.25	\$6,250.00		\$0.00		\$0.00	1	\$25,000.00	100%
100-37	Excavating, Hauling, and Disposal of Contaminated Soil	TON	990	\$45.00	\$44,550.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	0	\$0.00	0%
200-01	Remove and Replace Sanitary Manhole Casting and Adjustment Rings	EACH	27	\$4,500.00	\$121,500.00		\$0.00	1	\$4,500.00		\$0.00	23.00	\$103,500.00	3.00	\$13,500.00		\$0.00	27	\$121,500.00	100%
200-02	Connect to Existing Sanitary Sewer Manhole	EACH	1	\$2,000.00	\$2,000.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	0	\$0.00	0%
200-03	Connect to Existing Sanitary Sewer Main	EACH	3	\$2,000.00	\$6,000.00		\$0.00	2	\$4,000.00		\$0.00	2.00	\$4,000.00		\$0.00		\$0.00	4	\$8,000.00	133%
200-04	Sanitary Sewer PVC 10-Inch, Granular Backfill	LF	232	\$200.00	\$46,400.00		\$0.00	70	\$14,000.00		\$0.00		\$0.00	201.00	\$40,200.00		\$0.00	271	\$54,200.00	117%
200-05	Sanitary Sewer PVC 8-Inch, Slurry Backfill	LF	1,099	\$243.00	\$267,057.00		\$0.00	3	\$729.00	547.00	\$132,921.00	521.00	\$126,603.00		\$0.00		\$0.00	1071	\$260,253.00	97%
200-06	Sanitary Sewer PVC 10-Inch, Slurry Backfill	LF	39	\$300.00	\$11,700.00		\$0.00		\$0.00		\$0.00	61.00	\$18,300.00		\$0.00		\$0.00	61	\$18,300.00	156%
200-07A	Sanitary Sewer PVC 12-Inch, Slurry Backfill	LF	1,402	\$325.00	\$455,650.00		\$0.00	166	\$53,950.00	1171.00	\$380,575.00		\$0.00		\$0.00		\$0.00	1337	\$434,525.00	95%
200-07B	Sanitary Sewer Lateral 6-Inch, Granular Backfill	LF	615	\$145.00	\$89,175.00		\$0.00	31	\$4,495.00	89.50	\$12,977.50	143.00	\$20,735.00		\$0.00		\$0.00	264	\$38,207.50	43%
200-08	Sanitary Sewer Lateral 6-Inch, Slurry Backfill	LF	310	\$197.00	\$61,070.00		\$0.00	18	\$3,546.00	228.50	\$45,014.50	338.00	\$66,586.00		\$0.00		\$0.00	585	\$115,146.50	189%
200-09	Sanitary Manholes 4-FT Diameter With Casting	EACH	10	\$6,500.00	\$65,000.00		\$0.00	1	\$6,500.00	5.00	\$32,500.00	3.00	\$19,500.00		\$0.00		\$0.00	9	\$58,500.00	90%
200-10	Sanitary Outside Drop Manholes 4-FT Diameter With Casting	EACH	2	\$9,518.00	\$19,036.00		\$0.00		\$0.00	1.00	\$9,518.00	1.00	\$9,518.00		\$0.00		\$0.00	2	\$19,036.00	100%
200-11	Abandon Sanitary Sewer - Jackson Drive	LS	1	\$1,500.00	\$1,500.00		\$0.00		\$0.00		\$0.00	1.00	\$1,500.00		\$0.00		\$0.00	1	\$1,500.00	100%
200-12	Sanitary Sewer Lateral Pipe Bursting	LF	3,000	\$139.00	\$417,000.00		\$0.00		\$0.00	1966.00	\$273,274.00	2230.00	\$309,970.00		\$0.00		\$0.00	4196	\$583,244.00	140%
200-13	Furnish and Install 36" cleanout manhole with casting	EACH	1	\$3,645.00	\$3,645.00		\$0.00		\$0.00		\$0.00	1.00	\$3,645.00		\$0.00		\$0.00	1	\$3,645.00	100%
200-14	Repair existing storm laterals not shown on plan	EACH	6	\$448.00	\$2,688.00		\$0.00		\$0.00	10.00	\$4,480.00	4.00	\$1,792.00		\$0.00		\$0.00	14	\$6,272.00	233%
300-01	Removing Hydrant	EACH	2	\$1,100.00	\$2,200.00		\$0.00		\$0.00		\$0.00									

Project VOJ 21-01
Coffee Connection Trail
Jackson Drive - Eagle Drive

300-17	Water 22.5 Degree Bend 12-Inch	EACH	4	\$1,004.00	\$4,016.00		\$0.00		\$0.00		\$0.00	2.00	\$2,008.00		\$0.00	2	\$2,008.00	50%
300-18	Water Cap 12-Inch	EACH	2	\$2,216.00	\$4,432.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	0	\$0.00	0%
300-19	HDD Water service connect to main, new curb box	EACH	1	\$4,750.00	\$4,750.00		\$0.00		\$0.00	1.00	\$4,750.00		\$0.00		\$0.00	1	\$4,750.00	100%
300-20	Furnish and Install 1" Curb Stop - if existing one does not function while replacing Curb Box	EACH	6	\$750.00	\$4,500.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	0	\$0.00	0%
300-21	Temporary water service on Jackson Drive	LS	1	\$8,000.00	\$8,000.00		\$0.00		\$0.00	1.00	\$8,000.00		\$0.00		\$0.00	1	\$8,000.00	100%
300-22	Extra work involved with repairing the 12" water main near sanitary manhole #1	LS	1	\$7,939.00	\$7,939.00		\$0.00		\$0.00	1.00	\$7,939.00		\$0.00		\$0.00	1	\$7,939.00	100%
300-23	Abandon water service corporation stops not in service	LS	1	\$16,537.50	\$16,537.50		\$0.00		\$0.00		\$0.00	1.00	\$16,537.50		\$0.00	1	\$16,537.50	100%
400-01	WM Repair on Jackson Dr	LS	1	\$6,514.00	\$6,514.00		\$0.00		\$0.00		\$0.00	1.00	\$6,514.00		\$0.00	1	\$6,514.00	100%
400-02	H9 Loads of gravel hauled to DF project	TON	1,078	\$8.00	\$8,624.00		\$0.00		\$0.00		\$0.00	1078.00	\$8,624.00		\$0.00	1078	\$8,624.00	100%
400-03	Dumpsters lined and filled with contaminated	EACH	7	\$450.00	\$3,150.00		\$0.00		\$0.00		\$0.00	7.00	\$3,150.00		\$0.00	7	\$3,150.00	100%
400-04	Sanitary MH 10.1 turned over to VOJ	LS	1	\$2,405.00	\$2,405.00		\$0.00		\$0.00		\$0.00		\$0.00	1.00	\$2,405.00	1	\$2,405.00	100%
TOTAL					\$2,871,315.50		\$121,881.70		\$168,376.35		\$922,473.31		\$961,609.53		\$540,265.76		\$39,921.45	95.93%

Advance original bid #

\$2,713,433.75

Difference / Increase of

\$157,881.75

Work completed, previous estimate

\$540,265.76

Work completed, this estimate

\$39,921.45

Total work completed

\$2,754,528.10

Retainage, this estimate

\$0.00

Total retainage, previous estimates

\$67,835.84

Total retainage

\$67,835.84

Amount due to contractor, this estimate

\$39,921.45

\$39,921.45 Retainage Est #1

\$5,218,798.14 Retainage Est #2

\$46,123.67 Retainage Est #3

\$0.00 Retainage Est #4

Max retainage to hold =
Based off original bid price

Contractor's Application for Payment No. 6

	Application Date: 8/22/2023	Application Period: 6/22/23 - 8/22/23
To (Owner): Village of Jackson	From (Contractor): ADVANCE CONSTRUCTION, INC.	Via (Engineer): Gremmer & Associates, Inc.
Contact:	Contact: Paul Kultgen	Contact: Todd Drew
Project: STH 60 Utility Upgrades	Address: 241 Woodale Avenue Green Bay, WI 54313	Address: 93 S. Pioneer Rd, Fond du Lac, WI 54935
Owner's Project No.:	Contractor's Project No.:	Engineer's Project No.:

Change Order Summary

Approved Change Orders			1. ORIGINAL CONTRACT PRICE	\$ 2,713,433.75
Number	Additions	Deductions (Enter as Positive Number)	2. Net change by Change Orders	\$
			3. CURRENT CONTRACT PRICE (Line 1 + Line 2)	\$ 2,713,433.75
			4. TOTAL COMPLETED & STORED TO DATE	
			(Column L Total on Progress Estimates)	\$ 2,754,528.10
			5. RETAINAGE:	
			a. 5% X \$1,356,716.88 Work Completed	\$ 67,835.84
			b. 5% x Stored Materials	\$
			6. RETAINAGE REDUCTION TO DATE (Enter as Positive Number) .	\$ 67,835.84
			7. AMOUNT ELIGIBLE TO DATE (Line 4 - Line 5a. + Line 7)	\$ 2,686,692.26
			8. LESS PREVIOUS PAYMENTS (Line 6 from Prior Application)	\$ 2,646,770.81
			9. AMOUNT DUE THIS APPLICATION	39,921.45
TOTALS				
NET CHANGE BY CHANGE ORDERS				

Contractor's Certification The undersigned Contractor certifies that to the best of its knowledge: (1) all previous progress payments received from Owner on account of Work done under the Contract have been applied on account to discharge Contractor's legitimate obligations incurred in connection with Work covered by prior Applications for Payment; (2) title to all Work, materials and equipment incorporated in said Work or otherwise listed in or covered by this Application for Payment will pass to Owner per Article 15 of the General Conditions; and (3) all Work covered by this Application for Payment is in accordance with the Contract Documents and is not defective.	By: Paul Kultgen Date: 8.22.23
--	--

\$ **39,921.45**

Payment of: _____
(Line 8 or other - attach explanation of the other amount)

Recommended by: _____ (Date) _____
(Thomas J. Holtan, Town DPW/ENG)

\$

Payment of: _____
(Line 8 or other - attach explanation of the other amount)

Approved by: _____ (Date) _____
(Daniel W. Hein, Town Chair)

Progress Estimate - Unit Price Work

Contractor's Application for Payment No.

6

For (Project): ST 60								Application Date: 8/22/2023				
Application Period: 6/21/23 - 8/22/23												
A	B	C	D	E	F	G	H	I	J	K	L	M
Item No.	Description	Unit	Estimated Quantity	Bid Unit Price	Bid Item Value (\$)	Work Completed Previously		Work Completed This Period		Stored Material	Total Work Completed to Date	
						Estimated Quantity Installed	Value of Work Installed (\$)	Estimated Quantity Installed	Value of Work Installed (\$)		Estimated Quantity Installed	Value of Work Installed (\$)
100-01	Removing curb	LF	6	7.00	42.00							
100-02	Removing Curb & Gutter	LF	960	5.00	4,800.00	289.40	\$1,447.00				289.40	\$1,447.00
100-03	Removing Concrete Sidewalk and Driveways	SY	1205	5.00	6,025.00	469.57	\$2,347.85				469.57	\$2,347.85
100-04	Base Aggregate Dense 1 1/4-inch	TON	1875	15.80	29,625.00	1,218.60	\$19,253.88				1,218.60	\$19,253.88
100-05	Base Aggregate Open-Graded	TON	1130	23.00	25,990.00	590.77	\$13,587.71				590.77	\$13,587.71
100-06	Concrete Driveway 6-inch	SY	505	75.65	38,203.25	289.01	\$21,863.61				289.01	\$21,863.61
100-07	Concrete Driveway 8-inch	SY	80	77.00	6,160.00							
100-08	Drilled Tie Bars	EA	525	9.00	4,725.00	326.00	\$2,934.00				326.00	\$2,934.00
100-09	HMA Pavement 3 MT 58-28 S	TON	1110	275.00	305,250.00	989.35	\$272,071.25	53.87	\$14,814.25		1,043.22	\$286,885.50
100-10	HMA Pavement 4 MT 58-28 S	TON	67	510.00	34,170.00	60.00	\$30,600.00	16.89	\$8,613.90		76.89	\$39,213.90
100-11	Asphaltic Surface	TON	17	510.00	8,670.00							
100-12	Asphaltic Surface Driveways and Field Entrances	TON	50	510.00	25,500.00	45.00	\$22,950.00	27.33	\$13,938.30		72.33	\$36,888.30
100-13	Concrete Cur Type D	LF	6	48.00	288.00							
100-14	Concrete Curb & Gutter 30-inch Type D	LF	960	42.75	41,040.00	289.00	\$12,354.75				289.00	\$12,354.75
100-15	Concrete Sidewalk 5-inch	SF	5520	8.00	44,160.00	1,690.55	\$13,524.40				1,690.55	\$13,524.40
100-16	Concrete Steps	SF	30	55.00	1,650.00							

Progress Estimate - Unit Price Work

Contractor's Application for Payment No.

6

For (Project): ST 60								Application Date: 8/22/2023				
Application Period: 6/21/23 - 8/22/23												
A	B	C	D	E	F	G	H	I	J	K	L	M
Item No.	Description	Unit	Estimated Quantity	Bid Unit Price	Bid Item Value (\$)	Work Completed Previously		Work Completed This Period		Stored Material	Total Work Completed to Date	
						Estimated Quantity Installed	Value of Work Installed (\$)	Estimated Quantity Installed	Value of Work Installed (\$)		Estimated Quantity Installed	Value of Work Installed (\$)
100-17	Pipe Underdrain Wrppped 4-inch	LF	200	55.00	11,000.00	100.00	\$5,500.00				100.00	\$5,500.00
100-18	Moblization	EA	1	35,000.00	35,000.00	1.00	\$35,000.00				1.00	\$35,000.00
100-19	Lawn Restoration	SY	900	10.00	9,000.00	1,307.64	\$13,076.40	15.00	\$150.00		1,322.64	\$13,226.40
100-20	Inlet Protection Type C	EA	35	55.00	1,925.00	42.00	\$2,310.00				42.00	\$2,310.00
100-21	Geotextile Type SAS	SY	945	2.50	2,362.50	95.66	\$239.15				95.66	\$239.15
100-22	Marking Line Pain 4-inch	LF	6405	1.35	8,646.75	6,514.00	\$8,793.90				6,514.00	\$8,793.90
100-23	Marking Line Pain 8-inch	LF	225	2.55	573.75	195.00	\$497.25				195.00	\$497.25
100-24	arking Arrow Paint	EA	5	95.00	475.00	5.00	\$475.00				5.00	\$475.00
100-25	Marking Word Paint	EA	1	125.00	125.00	1.00	\$125.00				1.00	\$125.00
100-26	Marking Railroad Crossing Paint	EA	2	450.00	900.00	2.00	\$900.00				2.00	\$900.00
100-27	Marking Stop Line Paint 18-inch	LF	45	5.85	263.25	67.00	\$391.95				67.00	\$391.95
100-28	Marking Diagonal Paint 6-inch	LF	6	2.25	13.50	20.00	\$45.00				20.00	\$45.00
100-29	Marking Crosswalk Paint Transverse Line 6-inch	LF	205	2.25	461.25	549.00	\$1,235.25				549.00	\$1,235.25
100-30	Marking Crosswalk Paint Block Style 24-inch	LF	25	7.75	193.75	30.00	\$232.50				30.00	\$232.50
100-31	Conduit Loop Detector	LF	224	16.50	3,696.00	224.00	\$3,696.00				224.00	\$3,696.00
100-32	Loop Detector Wire	LF	800	2.35	1,880.00	800.00	\$1,880.00				800.00	\$1,880.00

Progress Estimate - Unit Price Work

Contractor's Application for Payment No.

6

For (Project): ST 60								Application Date: 8/22/2023				
Application Period: 6/21/23 - 8/22/23												
A	B	C	D	E	F	G	H	I	J	K	L	M
Item No.	Description	Unit	Estimated Quantity	Bid Unit Price	Bid Item Value (\$)	Work Completed Previously		Work Completed This Period		Stored Material	Total Work Completed to Date	
						Estimated Quantity Installed	Value of Work Installed (\$)	Estimated Quantity Installed	Value of Work Installed (\$)	Value of Stored Materials(\$)	Estimated Quantity Installed	Value of Work Installed (\$)
100-33	Sawing Asphalt	LF	8,760	2.00	17,520.00	7,194.50	\$14,389.00				7,194.50	\$14,389.00
100-34	Sawing Concrete	LF	2625	3.00	7,875.00	682.10	\$2,046.30				682.10	\$2,046.30
100-35	Remove and Replace Retaining Wall	LS	1	8,990.00	8,990.00							
100-36	Traffic Control and Detour	LS	1	25,000.00	25,000.00	1.00	\$25,000.00				1.00	\$25,000.00
100-37	Excavating, Hauling, and Disposal of Contaminated Soil	TON	990	45.00	44,550.00							
200-01	Remove and Replace Sanitary Manhole Casting and Adjustment Rings	EA	27	4,500.00	121,500.00	27.00	\$121,500.00				27.00	\$121,500.00
200-02	Connect to Existing Sanitary Sewer Manhole	EA	1	2,000.00	2,000.00							
200-03	Connect to Existing Sanitary Sewer Main	EA	3	2,000.00	6,000.00	4.00	\$8,000.00				4.00	\$8,000.00
200-04	Sanitary Sewer PVC 10-inch, Granular Backfill	LF	232	200.00	46,400.00	271.00	\$54,200.00				271.00	\$54,200.00
200-05	Sanitary Sewer PVC 8-inch, Slurry Backfill	LF	1,099	243.00	267,057.00	1,071.00	\$260,253.00				1,071.00	\$260,253.00
200-06	Sanitary Sewer PVC 10-inch, Slurry Backfill	LF	39	300.00	11,700.00	61.00	\$18,300.00				61.00	\$18,300.00
200-07	Sanitary Sewer PVC 12-inch, Slurry Backfill	LF	1402	325.00	455,650.00	1,337.00	\$434,525.00				1,337.00	\$434,525.00
200-07	Sanitary Sewer Lateral 6-inch, Granular Backfill	LF	615	145.00	89,175.00	263.50	\$38,207.50				263.50	\$38,207.50
200-08	Sanitary Sewer Lateral 6-inch, Slurry Backfill	LF	310	197.00	61,070.00	584.50	\$115,146.50				584.50	\$115,146.50
200-09	Sanitary Manholes 4-Ft Diameter with Casting	EA	10	6,500.00	65,000.00	9.00	\$58,500.00				9.00	\$58,500.00
200-10	Sanitary Outside Deep Manholes 4-FT Diameter with Casting	EA	2	9,518.00	19,036.00	2.00	\$19,036.00				2.00	\$19,036.00

Progress Estimate - Unit Price Work

Contractor's Application for Payment No.

6

For (Project): ST 60								Application Date: 8/22/2023				
Application Period: 6/21/23 - 8/22/23												
A	B	C	D	E	F	G	H	I	J	K	L	M
Item No.	Description	Unit	Estimated Quantity	Bid Unit Price	Bid Item Value (\$)	Work Completed Previously		Work Completed This Period		Stored Material	Total Work Completed to Date	
						Estimated Quantity Installed	Value of Work Installed (\$)	Estimated Quantity Installed	Value of Work Installed (\$)		Estimated Quantity Installed	Value of Work Installed (\$)
200-11	Abandon Sanitary Sewer - Jackson Drive	LS	1	1,500.00	1,500.00	1.00	\$1,500.00				1.00	\$1,500.00
200-12	Sanitary Sewer Lateral Pipe Bursting	LF	3000	139.00	417,000.00	4,196.00	\$583,244.00				4,196.00	\$583,244.00
200-13	Funish and install 36" cleanout manhole with casting	LS	1	3,645.00	3,645.00	1.00	\$3,645.00				1.00	\$3,645.00
200-14	Repair Existing Storm Laterals not shown on plan	EA	6	448.00	2,688.00	14.00	\$6,272.00				14.00	\$6,272.00
300-01	Removing Hydrant	EA	2	1,100.00	2,200.00	2.00	\$2,200.00				2.00	\$2,200.00
300-02	Connect to Existing Water Valve	EA	2	2,500.00	5,000.00	1.00	\$2,500.00				1.00	\$2,500.00
300-03	Connect to Existing Water Main Pipe	EA	3	3,850.00	11,550.00	2.00	\$7,700.00				2.00	\$7,700.00
300-04	Remove and Replace Water Serice Curb Box	EA	100	2,800.00	280,000.00	85.00	\$238,000.00				85.00	\$238,000.00
300-05	Water Main PVC 6-inch, Slurry Backfill	LF	45	315.00	14,175.00	13.00	\$4,095.00				13.00	\$4,095.00
300-06	Water Main PVC 12-inch, Slurry Backfill	LF	12	550.00	6,600.00							
300-07	Water Service Pipe 1 1/4-inch, Granular Backfill	LF	168	150.00	25,200.00	108.00	\$16,200.00				108.00	\$16,200.00
300-08	Water Service Pipe 1 1/4-inch, Slurry Backfill	LF	88	200.00	17,600.00	155.00	\$31,000.00				155.00	\$31,000.00
300-09	Water Service Saddle, Corporation Stop, Curb Stop, Curb Box and Couplings 1 1/4-inch	EA	7	1,400.00	9,800.00	6.00	\$8,400.00				6.00	\$8,400.00
300-10	Water Gate Valve 12-inch	EA	1	5,200.00	5,200.00							
300-11	Water 45 Degree Bend 6-inch	EA	1	500.00	500.00	1.00	\$500.00				1.00	\$500.00
300-12	Water 90 Degree Bend 6-inch	EA	3	530.00	1,590.00	1.00	\$530.00				1.00	\$530.00

Progress Estimate - Unit Price Work

Contractor's Application for Payment No.

6

For (Project): ST 60								Application Date: 8/22/2023				
Application Period: 6/21/23 - 8/22/23												
A	B	C	D	E	F	G	H	I	J	K	L	M
Item No.	Description	Unit	Estimated Quantity	Bid Unit Price	Bid Item Value (\$)	Work Completed Previously		Work Completed This Period		Stored Material	Total Work Completed to Date	
						Estimated Quantity Installed	Value of Work Installed (\$)	Estimated Quantity Installed	Value of Work Installed (\$)		Estimated Quantity Installed	Value of Work Installed (\$)
300-13	Hydrant	EA	2	9,000.00	18,000.00	2.00	\$18,000.00				2.00	\$18,000.00
300-14	Temporary Blow off 2-inch	EA	1	506.00	506.00	1.00	\$506.00				1.00	\$506.00
300-15	Connect to Existing Water Main lpe with 12-inch Gate Valve	EA	1	4,480.00	4,480.00	1.00	\$4,480.00				1.00	\$4,480.00
300-16	Water Main DI 12-incch with flurocarbon Gaskets, Granular Backfill	LF	247	291.00	71,877.00	247.00	\$71,877.00				247.00	\$71,877.00
300-17	Water 22.5 Degree Bend 12-inch	EA	4	1,004.00	4,016.00	2.00	\$2,008.00				2.00	\$2,008.00
300-18	Water Cap 12-inch	EA	2	2,216.00	4,432.00							
300-19	HDD Water service connect to main, new curb box	EA	1	4,750.00	4,750.00	1.00	\$4,750.00				1.00	\$4,750.00
300-20	Furnish and Install 1" Curb Stop - If existing one does not fuction while replacing Curb Box	EA	6	750.00	4,500.00							
300-21	Temporary water service on Jackson Drive	LS	1	8,000.00	8,000.00	1.00	\$8,000.00				1.00	\$8,000.00
300-22	Extra wrk involved with repairing the 12" water main near sanitary manhole #1	LS	1	7,939.00	7,939.00	1.00	\$7,939.00				1.00	\$7,939.00
300-23	Abarndon water service corporation stops not in service	LS	1	16,537.50	16,537.50	1.00	\$16,537.50				1.00	\$16,537.50
400-01	WM Repair on Jackson	LS	1	6,514.00	6,514.00	1.00	\$6,514.00				1.00	\$6,514.00
400-02	49 Loads of Gravel hauled to DF project	TON	1078	8.00	8,624.00	1,078.00	\$8,624.00				1,078.00	\$8,624.00
400-03	Dumpsters lined and filled with contaminated	EA	7	450.00	3,150.00	7.00	\$3,150.00				7.00	\$3,150.00
400-04	Sanitry MH 10.1 turned over to VOJ	LS	1	2,405.00	2,405.00			1.00	\$2,405.00		1.00	\$2,405.00

Progress Estimate - Unit Price Work

Contractor's Application for Payment No.

6

For (Project): ST 60								Application Date: 8/22/2023					
Application Period: 6/21/23 - 8/22/23													
A	B	C	D	E	F	G	H	I	J	K	L	M	
Item No.	Description	Unit	Estimated Quantity	Bid Unit Price	Bid Item Value (\$)	Work Completed Previously		Work Completed This Period		Stored Material	Total Work Completed to Date		
						Estimated Quantity Installed	Value of Work Installed (\$)	Estimated Quantity Installed	Value of Work Installed (\$)	Value of Stored Materials(\$)	Estimated Quantity Installed	Value of Work Installed (\$)	
TOTAL BID ITEMS						\$2,871,315.50		\$2,714,606.65		\$39,921.45			\$2,754,528.10

Project No. _____

Date: August 21, 2023

**Confirmation of Client Request for Services
between Cedar Corporation (ENGINEER)
and Village of Jackson (CLIENT)**

**Authorization to Perform Professional Engineering Services
for TID #7 Improvements**

ENGINEER is hereby authorized to proceed with the project listed below. The services are to be completed in a timely manner mutually agreeable with the CLIENT and ENGINEER.

Project: TID #7 Improvements

Scope of Work: ENGINEER will complete Design Services for the TID #7 Improvements Project as defined in the Project Scope. ENGINEER has attached a copy of this Project Scope as Attachment A.

Method of Compensation: Design work will be completed for an estimated fee of \$17,000.00. ENGINEER will not exceed the estimated Design fee amount without authorization from the CLIENT.

Payments are due and payable thirty (30) days from the date of the ENGINEER's invoice. Amounts unpaid thirty (30) days after the invoice date shall bear interest at the rate of one percent (1%) per month from invoice date.

THIS AGREEMENT is hereby approved and executed this ____ day of _____, 2023.

VILLAGE OF JACKSON

CEDAR CORPORATION

By: _____

By: 

Name: _____

Name: Ronald Dalton, P.E.

Title: _____

Title: Director

By: _____

By: 

Name: _____

Name: Douglas Kroes

Title: _____

Title: Construction Manager

Project No. _____

Date: August 21, 2023

Exhibit A

Scope of Services

ENGINEER will complete the following Scope of Services for the Project, as follows:

Provide design and bidding services for improvements at TID #7 located southwest of the intersection of STH60 and Ridgeway Drive. Improvements will include four (4) sewer laterals and water services and a new driveway approach off of Ridgeway Drive. The Engineer agrees to provide the following design services for the project:

1. Attend a project kick-off meeting.
2. Complete a topographic survey of the project limits.
3. Prepare plan and profile drawings of the sanitary sewer laterals, water services and driveway approach.
4. Prepare a final estimate.
5. Attend a 60% plan review meeting to discuss the project.
6. Prepare specifications and bid documents for the project.
7. Provide plans to private utilities.
8. Construction bidding assistance including:
 - a. Prepare advertising for bidding.
 - b. Provide plans and specifications for distribution through Bid Quest.
 - c. Answer bidder's questions.
 - d. Administer the bid opening and provide a letter of recommendation for award of the construction contract.

August 21, 2023

Mr. Brian Kober, P.E.
Public Works Director
Village of Jackson
W194N16660 Eagle Drive
Jackson, WI 53037

Subject: Analysis of Equipment Proposals – Tertiary Filter Equipment

Dear Mr. Kober:

The purpose of this letter is to analyze the proposals received for the tertiary filter equipment at the WWTF. The tertiary filters are used to remove suspended solids and phosphorus from the treated effluent prior to discharge to Cedar Creek. The tertiary filters are a critical part of the phosphorus compliance plan that the Village has provided the DNR as part of the Village's efforts to meet the more stringent phosphorus limits enacted as part of the Village's new WPDES permit.

The pre-selection of the equipment allows the Village to select the system that provides the overall best value to the Village. The selected equipment will be listed as an allowance in the bidding documents when the project is bid early next year as part of the Tertiary Filters and Disinfection Improvements project.

The Request for Proposals (RFP) was left open ended to allow manufacturers of various styles of tertiary filter equipment to propose as the filters will be housed in an addition to the existing Tertiary Filter Building. Two (2) proposals were received, and a summary of the equipment proposal costs is as follows:

Manufacturer	WesTech	Veolia (Kruger)
Base Equipment Cost	\$703,057	\$704,000
Master Control Panel	\$114,334	\$48,000
Phosphorus Optimization Panel	\$53,903	\$52,000 ⁽¹⁾
Filter Chemical Cleaning System	\$46,948	\$14,000
Extended Warranty (24 month)	\$19,682	\$0
Extended Warranty (60 month)	\$39,175	\$45,000 ⁽²⁾
Flocculation Tank Mixers	\$70,672	\$71,000
BABAA Compliance	\$0	\$80,000 ⁽³⁾
Total (All Items Listed Above)	\$1,047,771	\$1,014,000
Total (Recommended / Highlighted Items)	\$	\$837,000

- (1) Per discussion with the manufacturer, the existing effluent phosphorus analyzer (Chemscan) can be reused rather than purchasing new units. This system is not required.
- (2) Recommend selecting the 24-month warranty at no cost in lieu of the 5-year warranty offered based on the reliability of the existing filters.
- (3) Build America, Buy America Act (BABAA) requirements likely will not apply to the Clean Water Fund loan anticipated to be used for this project. This will need to be confirmed with the DNR as part of the funding application process.

Equipment Evaluation:

The Village currently utilizes two (2) Veolia tertiary filters of the same model with only 9 disks in lieu of the 10 disks proposed with the new units to provide tertiary treatment at the WWTF. This equipment has been in operation for over 10 years with few maintenance issues. The master control panel proposed for this system will operate both of the new filters with a single panel.

The filter chemical cleaning system is an ancillary piece of equipment designed to assist the operators with more regular cleaning of the filters. While the existing filters require cleaning only a few times per year, it is anticipated that the filters will require cleaning once per month when a coagulant is introduced upstream of the filters for low-level phosphorus removal. The chemical cleaning system expedites this cleaning process and can be used on both the new and existing filter equipment.

With the tighter effluent limits at the WWTF, flocculation tanks are required to be added ahead of the tertiary filters to optimize their operation. Each manufacturer has provided information on preliminary sizing of these tanks, but Veolia appears to have more experience in sizing these tanks and using their equipment to meet the low (less than 0.10 mg/L) phosphorus limits we have specified for this project. The flocculation tank mixers proposed are part of this system.

Engineer's Recommendation:

Consideration of the various tertiary filter equipment included the capital and O&M costs, the ease of maintenance for the operators, and references from similar installations. Based on our evaluation process, the best fit equipment is the Veolia Model HSF2210-1C filters unit as it matches the Village's two existing tertiary filters with only minor design modifications. Veolia is an experienced tertiary filter manufacturer who has provided similar equipment for phosphorus and solids removal at WWTFs throughout Wisconsin.

The budget for the tertiary filter equipment was set at \$850,000 as part of the Facilities Plan completed in September 2022. **We recommend that Veolia Model HSF2210-1C tertiary filters and ancillary equipment be selected to provide the equipment and warranty highlighted above at a cost of \$837,000.**

If you have any questions with respect to our thoughts on this matter, I am available at your convenience to discuss them with you.

Very truly yours,
TOWN & COUNTRY ENGINEERING, INC.



Gregory J. Droessler, P.E.
Vice-President

GJD

Jackson WWTF
Tertiary Filtration

Company		Tertiary Filters	
		WesTech LAI	Veolia/Kruger Peterson & Matz
Cost			
Capital Cost	\$	\$703,057	\$704,000
Master Control Panel	\$	\$114,334	\$48,000
Phosphorus Optimization Panel	\$	\$53,903	\$52,000
Filter Chemical Cleaning System		\$46,948	\$14,000
Extended Warranty (24 mo)	\$	\$19,682	\$0
Extended Warranty (60 mo)	\$	\$39,175	\$45,000
Mixers		\$70,672	\$71,000
BABAA Compliance		\$0	\$80,000
Total Cost	\$	\$1,047,771	\$1,014,000
Qualitative Evaluation			
<i>Service and Experience</i>			
Local Representative		Rich Hussey	Rob Szekeress
Manufacturing		USA	Sweden
Service Location		USA	Raleigh, NC
Model		SuperDisc TD 2410-09, Tank Mounted	HSF2210-1C
Installed Units		2	14
<i>Performance</i>			
Filter Pore Size	um	10.0	10.0
Filter Weight	lbs	6,757.0	8,157
Unit Dimensions (LxWxH)	ft	11' x 9' x 9'-2"	12'-8" x 7'-7" x 10'-1"
# of Filters		2	2
# of disks/filter		9/10	10
Spares		- (2) Filter Cassettes - (4) Spray Nozzles	- (5) Filter Media Panels -(5) Nozzle Assemblies
Life of filter media	years	20*	8 - 12
Direction of Flow (in→out or out→in)		in→out	in→out
Type of Polymer		Alum	Hydrex 3750 30% Active
Flocculation Time	min	5.56	8.5
Headloss at Peak Q	in	8.00	7.0
Filter Cleaning		yes	yes
Filter HP		1.5 filter, 15 backwash, .16 spray bar	1.5 filter, 10 backwash
Flow	MGD	1.875	1.31
throughput	gpm/sf	3.1	3.4
Wash Water Requirement	gpm	75	69
Control Panel Quantity		1	
Control Panel Type		NEMA 4X, 304 SS Wall Mount	NEMA 4x SS Free standing
Lead Time	wks	30 - 38	24 - 36
<i>Warranty</i>			
Time Period	months	12 OR 18	12 OR 18
Comments		- Mixer supports, installation, and tanks shall be by others - Payment terms differ from ours (10% PO acceptance & contract execution, 15% submittals, 35% release for fab, 40% notification of ready to ship - Internal bypass system - "Because not all system equipment is by WesTech, we cannot provide a guarantee for these limits"	- Payment terms differ from ours (10% receipt of fully executed contract, 15% delivery of submittals, 75% delivery of equipment - Includes less on-site days for training & system optimization
References			
Contacted			

August 21, 2023

Mr. Brian Kober, P.E.
Public Works Director
Village of Jackson
W194N16660 Eagle Drive
Jackson, WI 53037

Subject: Analysis of Equipment Proposals – Ultraviolet (UV) Disinfection Equipment

Dear Mr. Kober:

The purpose of this letter is to analyze the proposals received for the UV disinfection equipment for replacement of the chlorine disinfection at the WWTF. The UV disinfection is used to kill E. coli and other bacteria as the final stage of treatment at the facility prior to discharge to Cedar Creek. The pre-selection of the equipment allows the Village to select the system that provides the overall best value to the Village. The selected equipment will be listed as an allowance in the bidding documents when the project is bid early next year as part of the Tertiary Filters and Disinfection Improvements project.

The Request for Proposals (RFP) was left open ended to allow manufacturers of various styles of disinfection equipment to propose. Five (5) proposals were received, and a summary of the equipment proposal costs is as follows:

Manufacturer (Model)	Capital Cost	Est. Annual O&M	20-Year Present Worth Cost
Glasco VC-16-A800X2	\$159,000	\$4,531	\$249,620
Trojan UV3000+	\$189,902	\$11,805	\$426,002
Trojan Signa Inclined	\$209,633	\$4,770	\$305,073
De Nora C ³ 500D	\$210,000	\$2,987*	\$269,740*
Xylem (Wedeco) Duron	\$239,079	\$6,426	\$367,599

* The O&M costs for this unit appear to be estimated low for the annual hours of maintenance and the actual O&M costs will likely be approximately \$1,000 to \$2,000 per year higher.

Prices were secured for the equipment cost in stainless steel construction, and each vendor provided a standard 1-year warranty on the equipment and a 5-year warranty on the ballasts. The lamps for all proposed equipment have a prorated warranty of 12,000 to 16,000 hours based on the individual manufacturer.

Engineer's Recommendation:

Consideration of the various disinfection equipment included the capital and O&M costs, the ease of maintenance for the operators, and references from similar installations. Based on our evaluation process, the best fit equipment is the Trojan Signa Inclined unit as it offers the fewest lamps to maintain and requires no ancillary equipment (air compressors, air dryers, davit cranes, etc.) to be installed outside to maintain or remove the UV equipment. Trojan is an experienced manufacturer of UV disinfection equipment and has similar installations of both this equipment and the UV3000+ throughout Wisconsin.

The budget for the UV disinfection equipment was set at \$250,000 as part of the Facilities Plan completed in September 2022. **We recommend that Trojan Signa Inclined unit be selected to provide the UV disinfection equipment at a cost of \$209,633.**

If you have any questions with respect to our thoughts on this matter, I am available at your convenience to discuss them with you.

Very truly yours,
TOWN & COUNTRY ENGINEERING, INC.



Gregory J. Droessler, P.E.
Vice-President

GJD

Company		Glasco	Trojan		De Nora	Wedeco
Model		VC-16-A800X2	3000Plus	Signa Inclined	C ³ 500D	Duron
Type		Vertical	Horizontal	Inclined	Horizontal	Inclined
Cost						
Base Scope	\$	\$159,000	\$189,902	\$209,633	\$210,000	\$239,079
Additive Items						
BABAA Compliance		\$0	CANNOT BE PROVIDED	CANNOT BE PROVIDED	CANNOT BE PROVIDED	CANNOT BE PROVIDED
Total Cost	\$	\$159,000	\$189,902	\$209,633	\$210,000	\$239,079
Manufacturer Information						
General						
Country of Manufacturer		USA	Canada	Canada	USA	Germany
US Location of Service Facility		Mahwah, NJ	Cedarburg, WI	Cedarburg, WI	Pittsburgh, PA	
Number of Sumilar Installations		24	2,500	230	60	130
Performance						
Power Demand for 1.227 MGD	kW	4.8	9	8	12.42	7
Power Demand for 2.619 MGD	kW	10.2	12	12	17.6	12.1
Maintenance (hours per year)	hpy					
Lamp Cleaning		4	7.5	1.5	0	0
Routine Inspection/Maintenance		20	15	15	8	16
Equipment						
Bulb Orientation		vertical	horizontal	inclined	horizontal	inclined
Electrical Requirements (voltage, amps, phase)		480/3	480/277/3 4 wire + GND	480/277/3 4 wire + GND	480/277/3	480/60/3 4-wire + GND
UV Lamps						
Total Lamps Provided (quantity)		32	80	20	30	48
Type of Lamp		Low Pressure Amalgam	Low Pressure, High Output Amalgam	Low Pressure, High Output Amalgam	LPHO	LPHO
Manufacturer Name		Light Sources	Trojan	Trojan	De Nora	Wedeco
Power Rating (watts per lamp)		800	250	1000	520 nominal, 575 w ballast	600
Warranty (operation hours)		16,000	12,000	15,000	16,000	14,000
Replacement Cost (\$US)	\$ ea	\$296	\$400	\$650	\$318	\$391
Ballasts						
Total Quantity						24
Type of Ballast		Low Pressure Lamp Driver	Electronic	Electronic	Electronic	Electronic
Manufacturer Name		NEDAP	Trojan	Trojan	De Nora	Xylem Wedeco
Ballast Warranty (hours)	year	43,830	43,800	87,600	43,800	87,600
Replacement Cost (\$US)	\$/ballast	\$720	\$750	\$800	\$638	\$997
Accessories Included						
Weir		304 SS Finger Weir	316 SS Weir	316 SS Weir	Weir	304 SS finger weir
Davit Crane		Portable Davit Crane	Thern 5122 + sling	N/A	N/A	N/A
Service Rack		N/A	Yes	N/A	Yes	N/A
Air Compressor		Air Compressor, regulator, drier	N/A	N/A	N/A	N/A
Cleaning		Compressed Air	Hydraulic	Hydraulic	Mechanical Wiper	Mechanical Wiper
Enclosure		S.S. Channel Bump Out	N/A	N/A	N/A	N/A
Level Sensor		Low level sensor	Low level sensor	Low level sensor	Low level sensor / UV intensity	low level / UV intensity
Weir						
Overall Length (feet)	ft	Unknown	60.5	60.5	Unknown	Unknown
Head Loss (in) at Peak Hydraulic Capacity						
UV System	in	0.61	4.68	2.88	3.86	1.4
Weir	in	2.08	3	3	2	4.0
Lead Time	weeks	16 - 20	23 - 25	27- 29	20 - 26	44 - 50

Warranty		12 OR 18	12 OR 18	12 OR 18	12 OR 18	12
Spares		- (1) UV Intensity Sensor - (8) UV Lamps - (8) Quartz sleeves - (8) Lamp Holders - (2) Ballasts - (4) Seals and wiper rings - (1) Operator's kit w face shield - (2) Operation Manuals - (2) UV Warning Signs	- (8) UV lamp/sleeve assemblies - (2) Ballasts - (1) Operators Kit - (1) Spare intensity sensor - (1) Wiper seal kit - (8) Lamp holder seals	- (8) UV Lamps - (2) Lamp drivers - (8) Solo sleeves - (1) UV sensor - (8) 2 Row - Pair of Wiper Seals	- (8) UV Lamps - (8) Quartz Sleeves - (8) End Seals - (2) Electronic Ballasts - (4) Scraper Assemblies - (2) UV Area Warning Signs - (1) Mercury Spill Kit - (1) Service Trolley - (1) Rack Lifting Sling	- (8) UV Lamps - (8) Quartz sleeve assemblies - (1) face shield - (4) wiper seals - (1) UV Sensor - (2) Ballasts - (2) UV warning signs
Comments		- Payment terms: 10% approved drawings, 80% upon equipment delivery, 10% startup - System uses mechanical cleaning, not chemical	- Provides lifetime UV disinfection performance guarantee - Payment terms: 15% submittal, 80% delivery, 5% equipment acceptance	- Provides lifetime UV disinfection performance guarantee - Payment terms: 15% submittal, 80% delivery, 5% equipment acceptance	- Contractor to raise UV channel floor by 2' - Payment terms: 10% upon order acceptance, 10% at engineering submittals, 70% at delivery, 10% at startup. A 10% retainage is acknowledged - Quartz sleeve warranty of 5 years, UV Irradiance warranty of 3 years, Quartz Scraper warranty of 5 years - No provision for expansion included in scope. Channel reduction baffles are required to reduce the existing channel to fit the lamp racks - The system uses only automatic mechanical cleaning system, not chemical - Performance testing shall be based on the State's defined permit limit	- Has a mechanical cleaning system, will not provide air scrubbing system - Only want 1 enclosure - Payment Terms: 10% submittal, 80% from shipment, 5% installation, 5% startup
References						
Contacted						
Clarifications/Exceptions						

UV Disinfection Operating Cost Evaluation - Power Consumption						
Flow Rate (mgd)	% of Time	Glasco	Trojan (3000+)	Trojan (Signa)	De Nora	Wedeco
		kW	kW	kW	kW	kW
1.227	75%	4.8	9.0	8.0	12.4	7.0
2.619	25%	10.2	12.0	12.0	17.6	12.1
Annual Electricity Cost	\$0.10	\$2,214	\$3,510	\$3,240	\$4,937	\$2,979

UV Disinfection Operating Cost Evaluation -Ballast and Lamp Replacement Cost						
Manufacturer		Glasco	Trojan (3000+)	Trojan (Signa)	De Nora	Wedeco
Routine Maintenance	(Hours/Year)	24	23	16.5	8	16
Annual Cost	\$100.00	\$2,400	\$2,250	\$1,650	\$840	\$1,600
Seasonal Operation	hr/yr	3,600	3,600	3,600	3,600	3,600
Lamps	#	32	80	20	30	48
Lifespan	hours	16,000	12,000	15,000	16,000	14,000
Replacement Cost	\$/lamp	\$ 296	\$ 400	\$ 650	\$ 318	\$ 391
Service Life	yr	4.44	3.33	4.17	4.44	3.89
Annual Replacements	lamps/yr	7.2	24.0	4.8	6.8	12.3
Annual Replacement Cost	(\$/Year)	\$2,131	\$9,600	\$3,120	\$2,147	\$4,826
Annual Replacements	\$/yr	\$2,131	\$9,600	\$3,120	\$2,147	\$4,826
Annual O&M	\$/yr	\$4,531	\$11,850	\$4,770	\$2,987	\$6,426

Public Works Report

August 29, 2023

Treatment Plant - Designed Capacity – 1.67 million gallons per day
 Peak Flow Capacity – 6.0 million gallons per day

Year 2021

January	Avg. Flow 1.075 MGD	Min. Flow 880,000 g.p.d.	Max. 1.460 MGD
February	Avg. Flow 1.015 MGD	Min. Flow 830,000 g.p.d.	Max. 1.590 MGD
March	Avg. Flow 1.525 MGD	Min. Flow 1.160 MGD	Max. 1.970 MGD
April	Avg. Flow 1.264 MGD	Min. Flow 1.020 MGD	Max. 1.950 MGD
May	Avg. Flow 1.108 MGD	Min. Flow 880,000 g.p.d.	Max. 1.450 MGD
June	Avg. Flow 1.091 MGD	Min. Flow 810,000 g.p.d.	Max. 1.670 MGD
July	Avg. Flow 983,226 g.p.d.	Min. Flow 780,000 g.p.d.	Max. 1.410 MGD
August	Avg. Flow 1.281 MGD	Min. Flow 800,000 g.p.d.	Max. 2.530 MGD
September	Avg. Flow 932,333 g.p.d.	Min. Flow 710,000 g.p.d.	Max. 1.170 MGD
October	Avg. Flow 930,000 g.p.d.	Min. Flow 770,000 g.p.d.	Max. 1.140 MGD
November	Avg. Flow 853,667 g.p.d.	Min. Flow 720,000 g.p.d.	Max. 970,000 g.p.d.
December	Avg. Flow 952,581 g.p.d.	Min. Flow 720,000 g.p.d.	Max. 1.330 MGD

Year 2022

January	Avg. Flow 839,968 g.p.d.	Min. Flow 720,000 g.p.d.	Max. 960,000 g.p.d.
February	Avg. Flow 848,571 g.p.d.	Min. Flow 710,000 g.p.d.	Max. 1.080 MGD
March	Avg. Flow 1.499 MGD	Min. Flow 890,000 g.p.d.	Max. 3.910 MGD
April	Avg. Flow 2.245 MGD	Min. Flow 1.200 MGD	Max. 4.100 MGD
May	Avg. Flow 1.237 MGD	Min. Flow 850,000 g.p.d.	Max. 2.070 MGD
June	Avg. Flow 1.438 MGD	Min. Flow 780,000 g.p.d.	Max. 3.680 MGD
July	Avg. Flow 1.141 MGD	Min. Flow 760,000 g.p.d.	Max. 2.370 MGD
August	Avg. Flow 1.139 MGD	Min. Flow 810,000 g.p.d.	Max. 1.920 MGD
September	Avg. Flow 1.395 MGD	Min. Flow 780,000 g.p.d.	Max. 4.160 MGD
October	Avg. Flow 920,322 g.p.d.	Min. Flow 760,000 g.p.d.	Max. 1.130 MGD
November	Avg. Flow 1.259 MGD	Min. Flow 810,000 g.p.d.	Max. 2.660 MGD
December	Avg. Flow 1.267 MGD	Min. Flow 930,000 g.p.d.	Max. 2.190 MGD

Year 2023

January	Avg. Flow 1.247 MGD	Min. Flow 1.010 MGD	Max. 1.560 MGD
February	Avg. Flow 1.351 MGD	Min. Flow 950,000 g.p.d.	Max. 3.130 MGD
March	Avg. Flow 1.762 MGD	Min. Flow 1.250 MGD	Max. 2.560 MGD
April	Avg. Flow 1.594 MGD	Min. Flow 980,000 g.p.d.	Max. 3.290 MGD
May	Avg. Flow 1.094 MGD	Min. Flow 780,000 g.p.d.	Max. 1.520 MGD
June	Avg. Flow 875,333 g.p.d.	Min. Flow 750,000 g.p.d.	Max. 1.050 MGD
July	Avg. Flow 841,935 g.p.d.	Min. Flow 680,000 g.p.d.	Max. 1.050 MGD

Years Summary of Water Consumption

2006 Total Pumpage 207,719,000 gallons	2007 Total Pumpage 217,224,000 gallons
2008 Total Pumpage 229,613,000 gallons	2009 Total Pumpage 231,160,000 gallons
2010 Total Pumpage 239,326,000 gallons	2011 Total Pumpage 240,268,000 gallons
2012 Total Pumpage 253,492,000 gallons	2013 Total Pumpage 228,371,000 gallons
2014 Total Pumpage 230,973,000 gallons	2015 Total Pumpage 222,621,000 gallons
2016 Total Pumpage 254,531,000 gallons	2017 Total Pumpage 251,387,000 gallons
2018 Total Pumpage 241,322,000 gallons	2019 Total Pumpage 253,427,000 gallons
2020 Total Pumpage 259,413,000 gallons	2021 Total Pumpage 242,216,000 gallons

Year 2021

Jan.	Avg.	565,650 g.p.d.	Highest Day 789,000 gals.	Total	17,535,000 gallons
Feb	Avg.	517,650 g.p.d.	Highest Day 913,000 gals.	Total	16,047,000 gallons
March	Avg.	583,770 g.p.d.	Highest Day 1.303 MGD	Total	18,097,000 gallons
April	Avg.	642,770 g.p.d.	Highest Day 1.190 MGD	Total	19,283,000 gallons
May	Avg.	659,610 g.p.d.	Highest Day 1.103 MGD	Total	20,448,000 gallons
June	Avg.	825,730 g.p.d.	Highest Day 1.311 MGD	Total	24,772,000 gallons
July	Avg.	750,190 g.p.d.	Highest Day 1.529 MGD	Total	23,256,000 gallons
August	Avg.	768,940 g.p.d.	Highest Day 1.920 MGD	Total	23,837,000 gallons
Sept	Avg.	633,060 g.p.d.	Highest Day 1.775 MGD	Total	19,625,000 gallons
Oct	Avg.	753,030 g.p.d.	Highest Day 1.992 MGD	Total	23,344,000 gallons
Nov	Avg.	619,870 g.p.d.	Highest Day 1.059 MGD	Total	18,596,000 gallons
Dec	Avg.	560,520 g.p.d.	Highest Day 1.167 MGD	Total	17,376,000 gallons

Year 2022

Jan.	Avg.	553,580 g.p.d.	Highest Day 707,000 gals.	Total	17,161,000 gallons
Feb.	Avg.	575,360 g.p.d.	Highest Day 683,000 gals.	Total	16,110,000 gallons
March	Avg.	578,290 g.p.d.	Highest Day 861,000 gals.	Total	17,927,000 gallons
April	Avg.	606,400 g.p.d.	Highest Day 1.084 MGD	Total	18,192,000 gallons
May	Avg.	605,190 g.p.d.	Highest Day 808,000 gals.	Total	18,761,000 gallons
June	Avg.	660,500 g.p.d.	Highest Day 1.034 MGD	Total	19,815,000 gallons
July	Avg.	685,520 g.p.d.	Highest Day 853,000 gals.	Total	21,251,000 gallons
August	Avg.	654,160 g.p.d.	Highest Day 800,000 gals.	Total	20,279,000 gallons
Sept	Avg.	602,170 g.p.d.	Highest Day 727,000 gals.	Total	18,065,000 gallons
October	Avg.	661,390 g.p.d.	Highest Day 1.185 MGD	Total	20,503,000 gallons
Nov	Avg.	561,670 g.p.d.	Highest Day 714,000 gals.	Total	16,850,000 gallons
Dec	Avg.	552,160 g.p.d.	Highest Day 712,000 gals.	Total	17,117,000 gallons

Year 2023

Jan.	Avg.	544,810 g.p.d.	Highest Day 716,000 gals.	Total	16,889,000 gallons
Feb.	Avg.	576,070 g.p.d.	Highest Day 762,000 gals.	Total	16,130,000 gallons
March	Avg.	532,060 g.p.d.	Highest Day 713,000 gals.	Total	16,494,000 gallons
April	Avg.	597,230 g.p.d.	Highest Day 869,000 gals.	Total	17,917,000 gallons
May	Avg.	651,650 g.p.d.	Highest Day 1.243 MGD	Total	20,201,000 gallons
June	Avg.	850,070 g.p.d.	Highest Day 1.018 MGD	Total	24,152,000 gallons
July	Avg.	793,870 g.p.d.	Highest Day 944,000 gals.	Total	24,610,000 gallons

Pump Capacity Well #1- 400 g.p.m. Well #3 -900 g.p.m. Well #4 - 1200 g.p.m. Well #5 – 1,100 g.p.m. Well #6 – 800 g.p.m.

WWTP – Holding & Septage Receiving

2005	\$ 87,562.01	2006	\$101,115.11	2007	\$152,201.07	2008	\$210,441.47
2009	\$183,815.34	2010	\$197,653.66	2011	\$220,576.28	2012	\$236,224.70
2013	\$235,336.46	2014	\$203,938.32	2015	\$210,644.47	2016	\$220,473.17
2017	\$232,358.23	2018	\$245,767.74	2019	\$219,822.80	2020	\$204,656.11
2021	\$209,083.10	2022	\$251,109.46				

2021	Holdings (gals)	Grease (gals)	G Decant (gals)	Septage (gals)	S Decant (gals)	Total Billings
January	1,284,600			6,650	77,250	\$12,507.30
February	1,386,475			3,000	44,450	\$12,338.05
March	1,633,050			27,600	206,050	\$19,457.65
April	1,425,850			38,000	268,500	\$19,829.30
May	1,297,900			34,550	232,100	\$17,740.45
June	1,392,350			52,800	258,500	\$19,977.30
July	1,338,500			31,600	245,050	\$18,256.25
August	1,499,450			31,200	196,250	\$18,305.85
September	1,389,200			23,900	213,400	\$17,524.10
October	1,275,550			16,250	297,260	\$18,367.15
November	1,249,400			22,400	224,200	\$16,608.20
December	1,448,000			32,000	205,900	\$18,171.50

2022	Holdings (gals)	Grease (gals)	G Decant (gals)	Septage (gals)	S Decant (gals)	Total Billings
January	1,311,750	2,700			40,650	\$11,780.25
February	1,321,050	8,000			48,350	\$12,577.15
March	2,076,350	2,000		40,750	303,750	\$26,238.30
April	1,791,650	5,400	1,500	101,700	326,050	\$27,660.95
May	1,703,450		5,200	164,850	288,100	\$28,456.35
June	1,759,050	3,000		100,400	373,050	\$28,348.65
July	1,437,400	2,700		92,100	186,800	\$20,583.70
August	1,670,350	1,200	3,500	63,700	242,850	\$22,560.55
September	1,479,850			73,350	168,950	\$19,363.30
October	1,204,370	3,000	5,500	47,650	253,200	\$18,629.21
November	1,264,850		1,000	48,300	228,250	\$18,038.55
December	1,454,750		4,000	24,100	159,600	\$16,872.50

2023	Holdings (gals)	Grease (gals)	G Decant (gals)	Septage (gals)	S Decant (gals)	Total Billings
January	1,232,950		1,000	2,800	72,460	\$11,841.10
February	1,299,600			1,000	27,000	\$11,121.30
March	849,250			18,800	62,550	\$ 9,203.75
April	Primary Clarifiers were receiving new diffusers.					
May	1,011,750			44,350	121,650	\$13,131.00
June	1,089,100			44,100	148,950	\$14,421.05
July	928,350		3,500	6,000	110,500	\$12,546.00

Morning Meadows Subdivision

Streetlights are being planned by the Village for installation in Phase 1 and 2. Punch list has been created for Phase 2 to accept the utilities. Phase 3 has started utility installation on Wednesday, August 23rd.

Eagle Drive & STH 60 Intersection Improvement

Terra Venture Advisors are working on the land acquisition for the project. Working through the details and approvals. The plans are nearing the 100% plan stage.

Midwest Fiber Installation

Street Opening Permits have been approved for the Fiber to the Home Project. Now the request will be made with Mid-West for fiber to Utility owned properties. No update.

Impact Fee Study

We made the deadline for the August Board of Public Works meeting with approval of the report. Next, at the September 12th Village Board meeting. If approved the Public Hearing will be held on October 10th, and the new impact and connection fees would start on January 1, 2024.

Stormwater Ponds Management Inspection Program

The program continues.

Main Street (STH 60) Sewer and Water Replacement

Final Assessments are approved. Now working to close out the project.

CTH P (Sherman Road to STH 60) Utility Project

The Sherman Road Sewer Project has been completed. The Highland Road improvements have been completed. The CTH P Utility has the sewer main being installed. Next, is sanitary laterals to the right of way lines, and then water main.

Maple Fields Subdivision

Streetlights still need to be completed in Phase 1.

Next Generation Housing

The roadway has been paved. Now waiting for We-Energies to start on September 6th for electric and gas installation. Once We-Energies is completed the sidewalk will be installed.

Jackson Park Tennis Court Pickleball Conversion

A soft opening occurred on Monday, August 21st. The extreme heat slowed the use of the pickleball and basketball courts, although, people were using the new courts. Landscaping and completion of the seating area needs to be completed before the grand opening is announced.

Main Street Streetlight Replacement Project

Contracts have been signed. Working on approvals with We-Energies and properties owners for the location of the poles. The project is scheduled to start in October and be finished the beginning of December.

WWTP Storage Building Addition

Contracts have been signed. A preconstruction meeting is being scheduled.

Respectfully submitted, Brian W. Kober, P.E.