

Capital Improvement Plan Update FY 2020 – 2024 City of Merville, Iowa

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REPORT FOR:

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Introduction + Purpose

The Capital Improvement Plan (CIP) is a flexible plan based on improvement planning, equipment and technology needs, and financial projections. Identifying these needs helps to schedule major public improvements that may be incurred by the City over the next five years. A major public improvement or capital expense is described as any project or item costing at least \$5,000. The flexibility of the CIP is established through annual review and revision if necessary. The annual review assures that the program will become a continuing part of the budgetary process and that it will be consistent with changing demands as well as changing patterns in cost and financial resources.

The Capital Improvement Plan can be used to describe the overall objectives of City development, the relationship between projects with respect to timing and need, and the City's fiscal capabilities. Additionally, the CIP serves as a tool for implementing the goals and objectives identified in the Comprehensive Plan relating to major public improvements or expenditures.

The Capital Improvement Plan Assists with the Following:

1. A systematic approach to planning and initiating capital projects affording the opportunity to plan the location, timing, and financing of needed public improvements
2. The development of a realistic program of capital spending within the City's projected fiscal capability to finance such projects, avoiding significant changes in the tax levy or bonded indebtedness
3. The coordination of public and private improvement projects to allow adequate time for design, engineering, and permitting to eliminate duplication of effort and expense
4. The expenditure of public funds that is compatible with the City's adopted Comprehensive Plan
5. Informs the public of proposed future projects and expenditures and provide a guiding document for elected and appointed officials
6. Aid in achieving federal and/or state funding participation by providing the necessary planning and lead time required for a successful application, in addition to meeting prerequisites required for certain federal and state grants
7. Review and establish utility rate structures that support future capital needs in water, sanitary sewer, and storm sewer enterprise funds

CIP PROCESS

For the City of Menville, the updating process for the City's CIP included the following steps:

1. Review the July 2013 CIP with City Staff, elected officials, and stakeholders to revise project priority lists and update infrastructure and department needs

2. Gather financial information from City Officials to guide the development of financial recommendations for identified improvements
3. Develop the CIP project priority list and financing recommendations
4. Review priority lists and financing recommendations with City Staff and elected officials
5. Present the final CIP to the City Council for adoption and implementation

SOURCES OF FUNDING

In order to fund the anticipated capital improvements, the City can utilize a variety of funding sources and it is important to identify the uses and limitations of the available revenue sources. Many of these sources have a specific purpose. For example, dollars from the water utility fund will finance watermain installations, but not a street overlay on a watermain project.

Current Reserves + General Fund

This represents funding from current year revenue collections in the General Fund that support operations and capital outlay expenditures. Revenue sources include property tax levies, state aid payments, and various permit and license fees. This source of funding is generally used only for operations and small capital purchases or improvements.

General Fund Reserves

Reserves of the General Fund are the funds remaining after subtracting cash flow and emergency amounts from the City's cash balance, sometimes referred to as the fund balance. The use of the General Fund Reserves is not recommended for capital improvements without significant City Staff, City Council, or financial advisor review.

General Obligation (GO) Bonds

General Obligation bonds are backed by the full faith and credit of the subject municipality. GO bonds typically have a lower interest rate than revenue bonds.

Local Option Sales Tax (LOST)

Iowa has a base sales tax of 6% and allows local governments to collect a LOST of up to an additional 1% through a ballot measure. The City of Merville receives approximately \$220,000 annually in LOST funding, with 60% (\$132,000) applied to property tax relief and 40% (\$88,000) allocated for maintenance or general purpose activities.

Private Sector Funding

This funding source consists primarily of payments made by developers for the purchase of land, the installation of water, sewer, streets, or other related expenditures. It can also refer to donations made to the City by individuals or groups.

Revenue Bonds

These are bonds issued for improvements made for a specific revenue-producing facility or operation. The debt incurred is repaid from the revenue generated by the facility. If the revenue generated is insufficient, then the difference becomes an annual obligation of the taxpayers and an additional tax levy; these are generally not subject to referendum.

Road Use Tax Fund (RUTF)

This fund is a result of revenues provided by the State of Iowa from gas taxes, license fees, and weight tax. The state distributes some of the revenue back to the cities on a per capita basis. Any funding the City receives can be used on transportation related activities which involve operations, transportation, maintenance, and transportation improvements. The City of Merville receives approximately \$200,000 annually in RUTF funding. RUTF revenue is currently used to fully or partially finance street maintenance and repairs, equipment, street lights, snow removal, debt service, and storm sewer repair (approximately \$80,000 each year). We recommend the City budget approximately \$49,000 of RUTF revenue each year to finance the HMA maintenance overlay projects identified in this CIP.

Sanitary Sewer Funds

Sanitary sewer funds consist of revenue generated from charges for sewage disposal. The cost of operations plus system (capital) improvements determines the ultimate charge levied for the service provided.

Special Assessments

Special assessments are specific taxes levied to meet the cost of public improvements that benefit the property affected.

Storm Sewer Utility Revenues

Storm sewer funds consist of revenue generated by charging storm sewer utility fees normally collected as part of a utility bill. The City of Merville currently has a storm sewer fee based on property square footage ranging from \$1.50/month to \$5.00/month. This utility fee generates approximately \$15,500 annually to go toward financing storm sewer and stormwater improvements.

Tax Increment Financing (TIF)

In many cases, cities establish special funds to support capital improvements. Tax Increment Financing (TIF) is an example of a special fund. TIF revenue is a result of improvements or new development that incrementally increases existing tax value over time. This type of funding mechanism is often used to eliminate blighted conditions or fund economic development activities.

Water Funds

Water funds consist of revenue generated from the sale of water. The cost of operations, plus system (capital) improvements, determines the ultimate charge levied for the service provided.

PROGRAM DEVELOPMENT

The development of this CIP helps provide clarity to determine short and long term needs. In addition to determining needed improvements, it is necessary to identify how to fund the improvements. The following factors are taken into consideration when developing plans for project funding.

Identify Funding Source

In general, the City has two sources of revenue for projects, property taxes/general fund and utility enterprise funds. Typically, the sanitary sewer, water system, and sometimes storm sewer improvements are primarily funded by the respective utility enterprise fund. Property taxes/general funds are normally used to fund other aspects of projects such as transportation, parks, and recreation improvements.

Grants + Loans

Private, federal, and state grants and loans are often designated toward applicable projects like sanitary sewer, water utility improvements, recreation and trails, and playground equipment.

Project Alternative Explorations

Identifying project alternatives provides flexibility in design, which may result in possible cost savings.

Borrowing vs. Budgeting

Borrowing has administrative and bond counsel costs associated with it, as well as an interest rate which may vary. Budgeting and building special improvement funds each year allows a project reserve to be developed. This will give the City more flexibility to use cash reserves instead of borrowing the full amount for a project.

Capital Improvement Plan

PLAN DESIGN

In order to effectively plan for and manage the projects contained in the Capital Improvement Plan, similar activities are placed into Program and Department Categories. The City's activities are divided into the following five categories:

Equipment and Technology

Includes vehicles, computers, software, and other equipment and technology needs

Public Facilities

Includes all municipal and City owned buildings and facilities

Parks and Recreation

Includes all facility and equipment improvements for parks and recreation

Utilities by City Department

Includes the municipal utilities of water, sewer, and storm sewer and all related identified improvement projects

Transportation

Includes streets, sidewalks, traffic signs and signals, vehicular parking facilities, and street lighting and all related improvement or maintenance projects.

CIP PROJECT PRIORITY LIST

The Project Priority List is provided in **Appendix A** of this report. This project list will continue to evolve as the City Council prioritizes projects moving forward. It is our recommendation that the CIP is reviewed on an annual basis to adjust current priorities accordingly.

EFFECT ON THE CITY’S GENERAL OBLIGATION (GO) DEBT CAPACITY

Cities in Iowa may borrow up to 5% of the total property valuation of the municipality in General Obligation (GO) debt. The City of Merville’s current assessed valuation (tax base) is approximately \$88.0 million. Please see **Appendix B** for a detailed report from the Iowa Department of Management summarizing the City’s 100% assessed valuation. Analysis of current debt and improvements identified in the Project Priority List that impact the City’s GO debt capacity can be found in **Appendix B**.

UTILITY RATE ADJUSTMENT PROJECTIONS

For each improvement programmed in the Project Priority List, a rate adjustment projection has been provided as appropriate. These projects and associated rate adjustments can be found in **Appendix C**.

LOCAL OPTION SALES TAX (LOST) REVENUE ANALYSIS

The City of Merville receives approximately \$220,000 annually in LOST funding, 40% (\$88,000) of which can be applied to maintenance activities or capital improvements. A LOST revenue analysis is shown in **Appendix D** for the projects scheduled in this CIP Update.

ROAD USE TAX FUND (RUTF) REVENUE ANALYSIS

The City of Merville receives approximately \$200,000 annually in RUTF funding. A RUTF revenue analysis is shown in **Appendix E** for the projects scheduled in this CIP Update, also accounting for existing debt and annual budgetary items that are associated with this revenue source.

ENGINEER’S OPINION OF PROBABLE COST

Opinion of Probable Costs for each of the engineering projects identified in this Capital Improvement Plan Update, as well as Opinion of Probable Costs for specific HMA Overlay sections are included in **Appendix F**.

2015 ANNUAL AVERAGE DAILY TRAFFIC (AADT)

The Iowa Department of Transportation’s Division of Planning and Programming collected traffic counts for the City of Merville in 2015. The data is provided in **Appendix G** for reference.

Identified Improvements

EQUIPMENT + TECHNOLOGY

The City of Merville expressed interest in purchasing and replacing some new public safety and public works equipment and vehicles. Included in these equipment upgrades and purchases are a new police car, tanker truck for the fire department, and a number of equipment and pick-up replacements for the water, public works, sewer, and street department.

Table 1: Identified Equipment + Technology Improvements

Improvement	Opinion of Probable Cost	Funding Recommendations	Planned Fiscal Year
John Deere Riding Lawn Mower (Parks Department)	\$5,000	LOST- \$5,000	FY 2020 (Year 1)
Pick-Up Truck Replacement (Water Department)	\$35,000	Water Fund- \$35,000	FY 2021 (Year 2)
Tanker Truck (Fire Department)	\$250,000	Debt Issued- \$250,000	FY 2021 (Year 2)
Bobcat Skidloader (Public Works Department)	\$50,000	RUTF- \$50,000	FY 2021 (Year 2)
End Loader/Blade (Public Works Department)	\$140,000	Debt Issued- \$140,000	FY 2021 (Year 2)
Grasshopper Mower with Bagger (Parks Department)	\$5,000	LOST- \$5,000	FY 2022 (Year 3)
John Deere Riding Lawn Mower (Parks Department)	\$5,000	LOST- \$5,000	FY 2022 (Year 3)
Police Car	\$35,000	LOST- \$35,000	FY 2023 (Year 4)

Pick-Up Truck Replacement (Sewer Department)	\$35,000	Sewer Fund- \$35,000	FY 2023 (Year 4)
Bucket Truck (Street Department)	\$80,000	Debt Issued- \$80,000	FY 2024 (Year 5)
Total:	\$640,000	LOST- \$50,000 RUTF- \$50,000 Water Fund- \$35,000 Sewer Fund- \$35,000 Debt Issued- \$470,000	FY 2020- \$5,000 FY 2021- \$475,000 FY 2022- \$10,000 FY 2023- \$70,000 FY 2024- \$80,000

PUBLIC FACILITIES

Facility improvements identified in this CIP update include pool deck patching to even out the surface of the pool deck and address tripping hazards and updates to the heating and cooling system in the Community Center. We recommend the pool deck patching be done sooner, rather than later, since it is a health and safety concern.

Table 2: Identified Public Facility Improvements

Improvement	Opinion of Probable Cost	Funding Recommendations	Planned Fiscal Year
Pool Deck Patching	\$60,700	LOST- \$60,700	FY 2020 (Year 1)
Update HVAC in Community Center	To Be Determined	Not Programmed	Not Programmed
Total:	\$60,700	LOST- \$60,700	FY 2020- \$60,700

PARKS + RECREATION

The City of Menville would like to add a trail from Fair Street to Frontage Road. The intent is to fund this trail project through available grants.

Table 3: Identified Parks + Recreation Improvements

Improvement	Opinion of Probable Cost	Funding Recommendations	Planned Fiscal Year
Fair St. to Frontage Rd. Trail Project	To Be Determined	Not Programmed	Not Programmed
Total:	To Be Determined	Not Programmed	Not Programmed

SANITARY SEWER SYSTEM

Projects programmed in this Capital Improvement Plan Update include the extension of the sanitary sewer line on South 2nd Street, budgeting \$20,000 annually for the cleaning and televising of the sanitary sewer lines, and plans to install sanitary sewer infrastructure in Phase 2 of the Ridge Addition.

Menville’s recent investment in 2018 with the Main Lift Station Reconstruction Project has set the City’s system up for success for the upcoming decades. A detailed overview of the City’s sanitary sewer system can be found after Table 4 in this section.

Table 4: Identified Sanitary Sewer Improvements

Improvement	Opinion of Probable Cost	Funding Recommendations	Planned Fiscal Year
South 2nd Street Sanitary Sewer Extension	\$332,991	RUTF- \$32,991 Sewer Fund- \$300,000	FY 2020 (Year 1)
Cleaning + Televising of Sanitary Sewer Lines	\$20,000	Sewer Fund- \$20,000	FY 2021 (Year 2)
Cleaning + Televising of Sanitary Sewer Lines	\$20,000	Sewer Fund- \$20,000	FY 2022 (Year 3)
Cleaning + Televising of Sanitary Sewer Lines	\$20,000	Sewer Fund- \$20,000	FY 2023 (Year 4)
Cleaning + Televising of Sanitary Sewer Lines	\$20,000	Sewer Fund- \$20,000	FY 2024 (Year 5)
Ridge Addition (Phase 2) Sanitary Sewer Infrastructure	To Be Determined (TBD)	Tax Increment Financing (TIF)	Not Programmed
Total:	\$412,991	RUTF- \$32,991 Sewer Fund- \$380,000	FY 2020- \$332,991 FY 2021- \$20,000 FY 2022- \$20,000 FY 2023- \$20,000 FY 2024- \$20,000 Not Programmed- TIF

Sanitary Sewer System Overview

The City of Merville’s sanitary sewer system consists of sanitary sewer piping, manholes, lift stations, forcemains, and sewer services. According to City records, much of the gravity system was installed prior to 1919, with additional portions of the system added as development occurred. The majority of pipe in the City is vitreous clay pipe (VCP).

Merville’s sewage treatment facility consists of a three-cell aerated lagoon system located south of US Highway 20 and east of County Road K64. This three-celled system was constructed in 2001 and is sized to treat an average dry weather (ADW) flow of 0.310 million gallons per day (MGD) and an average wet weather (AWW) flow of 0.370 MGD. The 5-day biochemical oxygen demand (BOD5) load is 375 lbs/day. The facility is permitted by the Iowa Department of Natural Resources (IDNR) under the National Pollutant Discharge Elimination System (NPDES) permit number 9753001. Originally issued January 1, 2014, the permit expired December 31, 2018. A new NPDES permit has not been issued at this time, similar to other communities.

There are two existing lift stations in Merville. A lift station serving the north portion of the City is located just east of North 2nd Street and north of 150th Street. The main lift station serving all of Merville is located just north of the 4 Way Stop Shop. The most recent improvements to the north lift station were completed in 2011 and included pump replacements and routine maintenance and equipment upgrades. The north lift station is not equipped with a backup power generator; plans should be made to provide a source of emergency power capable of operating this lift station.

The main lift station was completely reconstructed in 2018 and includes a small building which houses a generator, the valve configuration, and the controls. Both of the lift stations are equipped with automatic dialers to notify the operator of any alarms. Operation at the north lift station averages approximately five hours per day, with the main lift station averaging six hours per day. A wastewater flow meter was installed on the Main Lift Station Reconstruction Project in 2018, but a flow meter installation at the north lift station would be beneficial to obtain more accurate flow readings.

Based on current flow readings, Movable appears to have sufficient treatment capacity to support significant future development. The system is sized to treat an average dry weather (ADW) flow of 0.310 million gallons per day (MGD); over the past few years, the treatment facility has treated 0.114 MGD.

Overall, the City of Movable’s sanitary sewer system is in good condition, with the City continuing to pay the loan on past Lagoon improvements until FY 2022 and the 20-year loan on the Main Lift Station Reconstruction Project until FY 2039.

STORM SEWER SYSTEM

The City of Movable identified stormwater outlet reconstruction on South 6th Street as the primary stormwater project identified in this Capital Improvement Plan Update. Additional plans include the installation of storm sewer infrastructure at Phase 2 of the Ridge Addition when applicable. Overall the storm sewer system in Movable is in good condition and the City has benefitted from implementing the storm sewer utility fee recommended in the 2013 Capital Improvement Plan. A detailed overview of the storm sewer system can be found after Table 5 in this section.

Table 5: Identified Storm Sewer Improvements

Improvement	Opinion of Probable Cost	Funding Recommendations	Planned Fiscal Year
South 6th Street Reconstruction + Storm Sewer Outlet	\$130,635	RUTF- \$41,700 LOST- \$73,435 Storm Sewer Fund- \$15,500	FY 2020 (Year 1)
Ridge Addition (Phase 2) Storm Sewer Infrastructure	To Be Determined (TBD)	Tax Increment Financing (TIF)	Not Programmed
Total:	\$130,635	RUTF- \$41,700 LOST- \$73,435 Storm Sewer Fund- \$15,500	FY 2020- \$130,635 Not Programmed- TIF

Storm Sewer System Overview

Movable’s stormwater system consists of intakes, manholes, piping, culverts, and ditches. All of the stormwater eventually outlets to the West Fork of the Little Sioux River. There are currently multiple outlets to the West Fork of the Little Sioux River, all on the west side of the city. The topography of Movable provides natural drainage, meaning there has been little need for major storm sewer piping improvements.

Currently, there is no stormwater pond or other treatment facility serving the City of Menville. The stormwater instead flows directly into the West Fork of the Little Sioux River. This method of routing stormwater directly to conveyance systems, with no detention, is a major contributor to flooding. Additionally, this method provides no treatment for stormwater.

The capacity of the current system to serve future development will be largely dependent on the type and location of development and the size of storm sewer available. If the development results in large increases in the amount of impervious surface area, it is recommended that stormwater ponds should be constructed for water quality and detention. As areas within Menville develop or redevelop, the City should consider adopting a policy for providing stormwater treatment and storage.

WATER SYSTEM

The City of Menville has a number of water system projects planned over the next five years including a number of water main replacements and extensions, a test well scheduled for fiscal year 2024, and planning for a new water treatment plant and associated water main improvements. Additional plans include the installation of water utility infrastructure at Phase 2 of the Ridge Addition when applicable. Menville is making considerable investment over the course of the next five years to ensure the City’s water system remains in good condition. A detailed overview of the Menville’s water system can be found after Table 6 in this section.

Table 6: Identified Water System Improvements

Improvement	Opinion of Probable Cost	Funding Recommendations	Planned Fiscal Year
Terratam Street Water Main Extension	\$34,835	RUTF- \$3,000 Water Fund- \$31,835	FY 2020 (Year 1)
Frontage Road Water Main Replacement	\$206,710	RUTF- \$15,400 Water Fund- \$191,310	FY 2021 (Year 2)
North 3rd Street + Alley Water Main Extension	\$82,110	RUTF- \$1,760 Water Fund- \$80,350	FY 2022 (Year 3)
North 4th Street Water Main Extension	\$112,160	RUTF- \$4,060 Water Fund- \$108,100	FY 2023 (Year 4)
Test Well	\$186,870	Water Fund- \$186,870	FY 2024 (Year 5)
Ridge Addition (Phase 2) Water Infrastructure	To be Determined (TBD)	Tax Increment Financing (TIF)	Not Programmed
New Water Treatment Plant + Water Main	\$1,550,000	Not Programmed/Water Fund- \$1,550,000	Not Programmed
Total:	\$2,172,685	RUTF- \$24,220 Water Fund or Revenue Bond- \$598,465 Not Programmed- \$1,550,000	FY 2020- \$34,835 FY 2021- \$206,710 FY 2022- \$82,110 FY 2023- \$112,160 FY 2024- \$186,870 Not Programmed- \$1,550,000

Water System Overview

Moville's water system consists of two municipal wells, one treatment facility, one elevated storage tower, watermains, and hydrants. The City of Moville has drilled six wells; three have been abandoned, one was a test well, and two municipal wells are active—Well No. 5 and Well No. 6. Both of the municipal wells are located near the water treatment facility on Sunset Street between 1st and 4th Streets. Well No. 5 is a deep well, drawing from the Dakota Aquifer and Well No. 6 is also a deep well, drawing its water from the Pleistocene Aquifer.

The Iowa Department of Natural Resources requires any user withdrawing more than 25,000 gallons in a 24-hour period during any calendar year to obtain a Water Use Permit. The City of Moville's permit (#3753) allows the City to pump up to 150 million gallons per year (MGY). Currently, the actual water being pumped from the municipal wells is approximately 50 million gallons per year (MGY), or roughly a third of the amount permitted under the Water Use Permit. Using the 435 gallon per minute (GPM) capacity of the existing wells, they would need to run approximately 6 hours per day to pump the current 50 million gallons per year (MGY). The two municipal wells are sufficient to accommodate anticipated additional users.

The City of Moville's water treatment currently consists of the injection of three chemicals into the raw water. Ortho/polyphosphate and caustic soda are added for corrosion control in the distribution system. Hypochlorination is also added for the disinfection of the raw water. It is anticipated that the City will need to drill new wells and build a new water treatment plant, with planning anticipated to begin in approximately 5 years and a test well scheduled for FY 2024.

The City has one elevated storage tank to provide storage and pressure to the distribution system, located south of the Woodbury County Fairgrounds. The elevated storage tank has a storage capacity of 300,000 gallons. Water is distributed throughout the City in a system of watermains, valves, and hydrants. The system is comprised of numerous valves, approximately 85 hydrants, and approximately 60,000 linear feet of watermain.

According to the Recommended Standards for Water Works, a city's water supply should equal or exceed the maximum daily demand with its largest producing well out of service, known as the "firm capacity." Moville's firm capacity is approximately 522,000 gallons per day, exceeding the peak demand of 325,000 gallons per day.

Moville currently has sufficient production capacity to support significant future development; however, upgrades may be necessary depending on where development occurs. There are water pressure concerns in elevated areas of town. If additional development is considered in these areas, the City may require a booster station to satisfy fire flow requirements. The water distribution system should also be examined in coordination with any future street improvement projects to determine if additional looping or distribution improvements would be advantageous.

STREET + SIDEWALK INFRASTRUCTURE

The City of Merville’s major street project in this CIP update is the Main Street Parking Reconstruction project. Additionally, \$49,000 is budgeted each year for HMA Overlay projects. Estimates for various HMA Overlay projects throughout the City can be found in the Engineer’s Opinion of Probable Cost found in Appendix F. A detailed overview of the City’s street system can be found after Table 7 in this section.

Table 7: Identified Street + Sidewalk Improvements

Improvement	Opinion of Probable Cost	Funding Recommendations	Planned Fiscal Year
HMA Overlay	\$49,000	RUTF- \$49,000	FY 2020 (Year 1)
Main Street Parking Reconstruction-Engineering Costs	\$101,000	General Fund- \$25,000 RUTF- \$30,000 LOST- \$46,000	FY 2020 (Year 1)
HMA Overlay	\$49,000	RUTF- \$49,000	FY 2021 (Year 2)
Main Street Parking Reconstruction-Engineering Costs	\$556,925	LOST- \$106,925 Debt Issued- \$450,000	FY 2021 (Year 2)
HMA Overlay	\$49,000	RUTF- \$49,000	FY 2022 (Year 3)
HMA Overlay	\$49,000	RUTF- \$49,000	FY 2023 (Year 4)
HMA Overlay	\$49,000	RUTF- \$49,000	FY 2024 (Year 5)
Total:	\$902,925	RUTF- \$275,000 General Fund- \$25,000 LOST- \$152,925 GO Debt- \$450,000	FY 2020- \$150,000 FY 2021- \$605,925 FY 2022- \$49,000 FY 2023- \$49,000 FY 2024- \$49,000

Transportation System Overview

The City of Merville’s transportation system is currently comprised of a U.S. Highway, a State Highway, and local streets. The State of Iowa has jurisdiction over U.S. Highway 20 (principal arterial) and Highway 140 (minor arterial). All other roads are considered local streets and the City of Merville has jurisdiction. Included in Appendix G is the 2015 Annual Average Daily Traffic (AADT) for Merville’s roads. The data is collected from the Iowa Department of Transportation’s Division of Planning and Programming. Similar to the regional transportation system, Merville’s road system saw only minor changes in the AADT from the data collected in 2011 and 2015.

Merville has approximately 12.0 miles of local streets that the City is responsible for maintaining. There are approximately 1.85 miles of streets made of red granite located on the south side of town, dating back to the 1920s. The Portland Cement Concrete (PCC) curb and gutter system was installed at a later time. The surface of the red granite roads and PCC curb and gutter system have deteriorated over the years from traffic and weathering, resulting in a rough driving surface. The streets are structurally sound, but it is recommended the City resurface these roads in the near future.

Moville's streets are generally in good condition, but some of the granite streets may need replacement and other streets may require ongoing maintenance. Utility improvements, like watermains or sanitary sewer lines, should be considered when street improvements like overlays or reconstructions are done.

Additional Street + Sidewalk Funding Sources

Special Assessments

This represents costs that would be assessed to the benefiting property owner during street reconstruction. Assessments are not levied for maintenance projects. It is our understanding that the City has not historically assessed residents for street projects. Special assessments are a tool that the City may consider for reconstruction projects.

Farm to Market Routes

Farm to Market Routes connect farms and other agricultural areas to market towns. These routes are usually higher-quality paved roads and highways, which serve as a direct route for farmers to access markets and distribution centers. Funding for maintenance on farm to market roads can come from a variety of sources including Rise Grants and a percentage of the county's RUTF allocation. Often times, the county aids in finding funding sources.

Surface Transportation Block Grant Program (STBGP)

Each year Siouland Interstate Metropolitan Planning Council (SIMPCO) produces the Regional Transportation Improvement Program (RTIP), which identifies all planned transportation projects in the region which use federal funds over the next four years through a Surface Transportation Block Grant Program (STBGP). These grants typically have a maximum federal funding amount of 80% with a state or local non-federal match of 20% required. All public agencies with public road jurisdiction, public transit responsibilities, or transportation planning responsibilities are eligible for Surface Transportation Block Grants. SIMPCO accepts applications for Surface Transportation Program project funds annually.

APPENDIX A: CIP Project Priority List

City of Mville
Capital Improvement Plan Update



Appendix A: Project Priority List

Improvement	Category	Estimated Cost	General Fund	Road Use Tax Fund (RUTF)	Local Option Sales Tax (LOST)	Sanitary Sewer Fund	Storm Sewer Fund	Water Fund	Debt Issued
FY 2020 (July 1, 2019 - June 30, 2020) YEAR 1									
John Deere Riding Lawn Mower (Parks Department)	Equipment + Technology	\$ 5,000.00			\$ 5,000.00				No
Pool Deck Patching	Public Facilities	\$ 60,700.00			\$ 60,700.00				No
South 2nd Street Sanitary Sewer Extension	Sanitary Sewer	\$ 332,991.00		\$ 32,991.00		\$ 300,000.00			Yes, Sewer Revenue Bond
South 6th Street Reconstruction + Storm Sewer Outlet	Storm Sewer	\$ 130,635.00		\$ 41,700.00	\$ 73,435.00		\$ 15,500.00		No
HMA Overlay (Various Projects)	Streets	\$ 49,000.00		\$ 49,000.00					No
Main Street South Parking Reconstruction- Engineering Costs	Streets	\$ 101,000.00	\$ 25,000.00	\$ 30,000.00	\$ 46,000.00				No
Terratam Street Water Main Extension	Water	\$ 34,835.00		\$ 3,000.00				\$ 31,835.00	No
FY 2020 Total		\$ 714,161.00	\$ 25,000.00	\$ 156,691.00	\$ 185,135.00	\$ 300,000.00	\$ 15,500.00	\$ 31,835.00	\$ 300,000.00
FY 2021 (July 1, 2020 - June 30, 2021) YEAR 2									
Pick-Up Truck Replacement (Water Department)	Equipment + Technology	\$ 35,000.00						\$ 35,000.00	No
Tanker Truck (Fire Department)	Equipment + Technology	\$ 250,000.00	\$ 250,000.00						Yes, General Obligation (GO) Debt
Bobcat Skidloader (Public Works Department)	Equipment + Technology	\$ 40,000.00		\$ 40,000.00					No
End Loader/Blade (Public Works Department)	Equipment + Technology	\$ 140,000.00	\$ 140,000.00						Yes, General Obligation (GO) Debt
HMA Overlay (Various Projects)	Streets	\$ 49,000.00		\$ 49,000.00					No
Main Street South Parking Reconstruction- Construction Costs	Streets	\$ 556,925.00	\$ 450,000.00		\$ 106,925.00				Yes, General Obligation (GO) Debt
Cleaning + Televising of Sanitary Sewer Lines	Sanitary Sewer	\$ 20,000.00				\$ 20,000.00			No
Frontage Road Water Main Replacement	Water	\$ 206,710.00		\$ 15,400.00				\$ 191,310.00	Yes, Water Revenue Bond
FY 2021 Total		\$ 1,297,635.00	\$ 840,000.00	\$ 104,400.00	\$ 106,925.00	\$ 20,000.00	\$ -	\$ 226,310.00	\$ 1,031,310.00
FY 2022 (July 1, 2021 - June 30, 2022) YEAR 3									
Grasshopper Mower with Bagger (Parks Department)	Equipment + Technology	\$ 5,000.00			\$ 5,000.00				No
John Deere Riding Lawn Mower (Parks Department)	Equipment + Technology	\$ 5,000.00			\$ 5,000.00				No
HMA Overlay (Various Projects)	Streets	\$ 49,000.00		\$ 49,000.00					No
Cleaning + Televising of Sanitary Sewer Lines	Sanitary Sewer	\$ 20,000.00				\$ 20,000.00			No
North 3rd Street + Alley Water Main Extension	Water	\$ 82,110.00		\$ 1,760.00				\$ 80,350.00	Yes, Water Revenue Bond
FY 2022 Total		\$ 161,110.00	\$ -	\$ 50,760.00	\$ 10,000.00	\$ 20,000.00	\$ -	\$ 80,350.00	\$ 80,350.00

City of Mville
Capital Improvement Plan Update



Appendix A: Project Priority List

Improvement	Category	Estimated Cost		Road Use Tax Fund (RUTF)	Local Option Sales Tax (LOST)	Sanitary Sewer Fund	Storm Sewer Fund	Water Fund	Debt Issued
FY 2023 (July 1, 2022 - June 30, 2023) YEAR 4									
Police Car	Equipment + Technology	\$ 35,000.00			\$ 35,000.00				No
Pick-Up Truck Replacement (Sewer Department)	Equipment + Technology	\$ 35,000.00				\$ 35,000.00			No
HMA Overlay (Various Projects)	Streets	\$ 49,000.00		\$ 49,000.00					No
Cleaning + Televising of Sanitary Sewer Lines	Sanitary Sewer	\$ 20,000.00				\$ 20,000.00			No
North 4th Street Water Main Extension	Water	\$ 112,160.00		\$ 4,060.00				\$ 108,100.00	Yes, Water Revenue Bond
FY 2023 Total		\$ 251,160.00	\$ -	\$ 53,060.00	\$ 35,000.00	\$ 55,000.00	\$ -	\$ 108,100.00	\$ 108,100.00
FY 2024 (July 1, 2023 - June 30, 2024) YEAR 5									
Bucket Truck (Street Department)	Equipment + Technology	\$ 80,000.00	\$ 80,000.00						Yes, General Obligation (GO) Debt
HMA Overlay (Various Projects)	Streets	\$ 49,000.00		\$ 49,000.00					No
Cleaning + Televising of Sanitary Sewer Lines	Sanitary Sewer	\$ 20,000.00				\$ 20,000.00			No
Test Well	Water	\$ 186,870.00						\$ 186,870.00	Yes, Water Revenue Bond
FY 2024 Total		\$ 335,870.00	\$ 80,000.00	\$ 49,000.00	\$ -	\$ 20,000.00	\$ -	\$ 186,870.00	\$ 266,870.00
Total for All Fiscal Years		\$ 2,759,936.00	\$ 945,000.00	\$ 413,911.00	\$ 337,060.00	\$ 415,000.00	\$ 15,500.00	\$ 633,465.00	\$ 1,786,630.00
Not Programmed									
Update HVAC in Community Center	Public Facilities	To Be Determined (TBD)							Not likely
Fair Street to Frontage Road Trail Project	Parks + Recreation	To Be Determined (TBD)							Not likely, pursuing local grant funds
Ridge Addition (Phase 2) Sanitary Sewer Infrastructure	Sanitary Sewer	To Be Determined (TBD)							Yes, Tax Increment Financing (TIF)
Ridge Addition (Phase 2) Storm Sewer Infrastructure	Storm Sewer	To Be Determined (TBD)							Yes, Tax Increment Financing (TIF)
Ridge Addition (Phase 2) Water Infrastructure	Water	To Be Determined (TBD)							Yes, Tax Increment Financing (TIF)
New Water Treatment Plant + Water Main	Water	\$ 1,550,000.00						\$ 1,550,000.00	Yes, Water Revenue Bond
Not Programmed Total		\$ 1,550,000.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,550,000.00	\$ 1,550,000.00
Grand Total for All Fiscal Years + Not Programmed Items		\$ 4,309,936.00	\$ 945,000.00	\$ 413,911.00	\$ 337,060.00	\$ 415,000.00	\$ 15,500.00	\$ 2,183,465.00	\$ 3,336,630.00

APPENDIX B:
Effect on the City's General Obligation (GO) Debt
Capacity

City of Menville Capital Improvement Plan Update



Appendix B: Effect on City's General Obligation (GO) Debt Capacity

Debt Capacity	
Total Property Valuation	\$ 88,000,000.00
GO Debt Capacity (5% of Total Valuation)	\$ 4,400,000.00
90% of Debt Capacity (Best Practice)	\$ 3,960,000.00

Identified Projects Issuing Debt	FY 2020 (Year 1)	FY 2021 (Year 2)	FY 2022 (Year 3)	FY 2023 (Year 4)	FY 2024 (Year 5)
Community Center GO Bond (Existing Debt)	\$ 111,243.75	\$ 42,428.75	\$ -	\$ -	\$ -
Tanker Truck for Fire Department (Proposed Debt, 8-yr at 3.5% for analysis)	\$ -	\$ 250,000.00	\$ 218,725.00	\$ 187,450.00	\$ 156,175.00
End Loader/Blader (Public Works Department, 5-yr at 3.5% for analysis)	\$ -	\$ 140,000.00	\$ 112,010.00	\$ 84,020.00	\$ 56,030.00
Main Street Reconstruction (Proposed Debt, 10-yr at 3.5% for analysis)	\$ -	\$ 450,000.00	\$ 405,000.00	\$ 360,000.00	\$ 315,000.00
Bucket Truck (Public Works Department, 5-yr at 3.5% for analysis)	\$ -	\$ -	\$ -	\$ -	\$ 80,000.00
Remaining GO Capacity (At 90% best practice)	\$ 3,848,756.25	\$ 3,077,571.25	\$ 3,224,265.00	\$ 3,328,530.00	\$ 3,352,795.00
Ridge Project TIF Debt (Outstanding)	\$ 461,465.00	\$ 421,465.00	\$ 381,465.00	\$ 341,465.00	\$ 301,465.00
Projected Remaining Debt Capacity (GO + TIF Debt)	\$ 3,387,291.25	\$ 2,656,106.25	\$ 2,842,800.00	\$ 2,987,065.00	\$ 3,051,330.00



Iowa Department of Management - Local Government Property Valuation System

January 1, 2018 100% Valuations - All Property

For FY2019/2020 Tax Levies

By Class of Property, By City - MOVILLE (97G933)

Valuation Type	Residential	Ag Land	Ag Buildings	Commercial	Industrial	Multiresidential	Reserved	Railroads	Utilities W/O Gas & Electric	Other	Military Exempt	Valuation W/O G&E Utilities	Gas & Electric Utility Valuation	Valuation With G&E Utilities
Non-TIF	72,528,320	97,300	19,210	8,150,865	36,010	500,860	0	0	32,875	0	135,196	81,230,244	2,628,787	83,859,031
TIF	4,079,640	0	0	67,235	0	0	0	0	0	0	3,704	4,143,171	0	4,143,171
TOTALS	76,607,960	97,300	19,210	8,218,100	36,010	500,860	0	0	32,875	0	138,900	85,373,415	2,628,787	88,002,202

APPENDIX C: Utility Rate Adjustment Projections

Appendix C: Utility Rate Adjustment Projections

Summary of Programmed Utility Projects and Associated Utility Rate Increases				
Programmed Improvement	Fiscal Year	Estimated Cost	Amount Funded from Utility Fund	Utility Rate Increase Needed? Associated Utility Fund?
South 2nd Street Sanitary Sewer Extension	FY 2020	\$ 332,991.00	\$ 300,000.00	Yes, a sanitary sewer utility rate increase will likely be required to fund this project. See Sanitary Sewer Utility Rate table for projected increase.
South 6th Street Reconstruction + Storm Sewer Outlet	FY 2020	\$ 130,635.00	\$ 15,500.00	No, this project can use revenue collected from the storm sewer utility fee. The City has the option to increase this fee amount if they would like to increase the amount of revenue collected annually.
Terratam Street Water Main Extension	FY 2020	\$ 34,835.00	\$ 31,835.00	No, a water utility rate increase will not be necessary for this project, this could be funded using the capital projects fund or annual budget process.
Pick-Up Truck Replacement (Water Department)	FY 2021	\$ 35,000.00	\$ 35,000.00	No, a water utility rate increase will not be necessary for this project, this could be funded using the annual budget process.
Cleaning + Televising of Sanitary Sewer Lines	FY 2021	\$ 20,000.00	\$ 20,000.00	No, a sanitary sewer utility rate increase will not be necessary for this project, this could be funded using the capital projects fund or annual budget process.
Frontage Road Water Main Replacement	FY 2021	\$ 206,710.00	\$ 191,310.00	Yes, a water utility rate increase will likely be required to fund this project. See Water Utility Rate table for the projected increase.
Cleaning + Televising of Sanitary Sewer Lines	FY 2022	\$ 20,000.00	\$ 20,000.00	No, a sanitary sewer utility rate increase will not be necessary for this project, this could be funded using the capital projects fund or annual budget process.
North 3rd Street + Alley Water Main Extension	FY 2022	\$ 82,110.00	\$ 80,350.00	Yes, a water utility rate increase will likely be required to fund this project. See Water Utility Rate table for the projected increase.
Pick-Up Truck Replacement (Sewer Department)	FY 2023	\$ 35,000.00	\$ 35,000.00	No, a sewer utility rate increase will not be necessary for this project, this could be funded using the annual budget process.
Cleaning + Televising of Sanitary Sewer Lines	FY 2023	\$ 20,000.00	\$ 20,000.00	No, a sanitary sewer utility rate increase will not be necessary for this project, this could be funded using the capital projects fund or annual budget process.
North 4th Street Water Main Extension	FY 2023	\$ 112,160.00	\$ 108,100.00	Yes, a water utility rate increase will likely be required to fund this project. See Water Utility Rate table for the projected increase.
Cleaning + Televising of Sanitary Sewer Lines	FY 2024	\$ 20,000.00	\$ 20,000.00	No, a sanitary sewer utility rate increase will not be necessary for this project, this could be funded using the capital projects fund or annual budget process.
Test Well	FY 2024	\$ 186,870.00	\$ 186,870.00	Yes, a water utility rate increase will be needed to finance this project. A Planning + Design Loan for the new water treatment plant may finance a test well. This loan will then be rolled into a construction loan. See New Water Treatment Plant Utility Rate table for the projected increase.
New Water Treatment Plant + Water Main	Not Programmed	\$ 1,550,000.00	\$ 1,550,000.00	Yes, a water utility rate increase will be needed to finance this project. See New Water Treatment Plant Utility Rate table for a projected increase.

Sanitary Sewer Utility Rate Increase Projection				
Programmed Improvement	Fiscal Year	Amount Funded from Utility Fund	Loan Terms	Projected Rate Increase
South 2nd Street Sanitary Sewer Extension	FY 2020	\$ 300,000.00	15-Year Loan at 3.5% (bank note)	Annual Debt Service: \$26,050
				\$2.93 increase per month/per connection
			20-Year Loan at 2.0% (from SRF)	Annual Debt Service + 10% Required Reserve: \$20,185
				\$2.27 increase per month/per connection



Appendix C: Utility Rate Adjustment Projections

Water Utility Rate Increase Projection				
Programmed Improvement	Fiscal Year	Amount Funded from Utility Fund	Loan Terms	Projected Rate Increase
Frontage Road Water Main Replacement	FY 2021	\$ 191,310.00	10-Year Loan at 3.5% (bank note)	Annual Debt Service: \$23,000 \$2.57 increase per month/per connection
			15-Year Loan at 3.5% (bank note)	Annual Debt Service: \$16,600 \$1.87 increase per month/per connection
North 3rd Street + Alley Water Main Extension	FY 2022	\$ 80,350.00	10-Year Loan at 3.5% (bank note)	Annual Debt Service: \$9,700 \$1.09 increase per month/per connection
			15-Year Loan at 3.5% (bank note)	Annual Debt Service: \$7,000 \$0.79 increase per month/per connection
North 4th Street Water Main Extension	FY 2023	\$ 108,100.00	10-Year Loan at 3.5% (bank note)	Annual Debt Service: \$13,000 \$1.46 increase per month/per connection
			15-Year Loan at 3.5% (bank note)	Annual Debt Service: \$9,400 \$1.06 increase per month/per connection
Combine All Three Programmed Improvements	FY 2021, 2022, and 2023	\$ 379,760.00	15-Year Loan at 3.5% (SRF loan)	Annual Debt Service: \$32,970 \$3.71 increase per month/per connection
			20-Year Loan at 2.0% (SRF loan)	Annual Debt Service + 10% Required Reserve: \$25,542 \$2.87 increase per month/per connection
			30-Year Loan at 3.0% (SRF loan)	Annual Debt Service + 10% Required Reserve: \$21,318 \$2.40 increase per month/per connection
Test Well (only)	FY 2024	\$ 186,870.00	10-Year Loan at 3.5% (bank note)	Annual Debt Service: \$22,500 \$2.53 increase per month/per connection
			15-Year Loan at 3.5% (bank note)	Annual Debt Service: \$16,225 \$1.82 increase per month/per connection
			20-Year Loan at 2.0% (SRF loan)	Annual Debt Service + 10% Required Reserve: \$12,575 \$1.41 increase per month/per connection

New Water Treatment Plant Utility Rate Increase Projection				
Programmed Improvement	Fiscal Year	Amount Funded from Utility Fund	Loan Terms	Projected Rate Increase
Test Well + New Water Treatment Plant (combined loan)	FY 2024 + Not Programmed	\$ 1,736,900.00	20-Year Loan at 2.0% (SRF loan)	Annual Debt Service + 10% Required Reserve: \$116,840 \$13.14 increase per month/per connection
			30-Year Loan at 3.0% (SRF loan)	Annual Debt Service + 10% Required Reserve: \$97,480 \$10.96 increase per month/per connection
New Water Treatment Plant (only)	Not Programmed	\$ 1,550,000.00	20-Year Loan at 2.0% (SRF loan)	Annual Debt Service + 10% Required Reserve: \$104,280 \$11.73 increase per month/per connection
			30-Year Loan at 3.0% (SRF loan)	Annual Debt Service + 10% Required Reserve: \$87,010 \$9.79 increase per month/per connection



APPENDIX D: Local Option Sales Tax (LOST) Revenue Analysis

City of Menville Capital Improvement Plan Update



Appendix D: Local Option Sales Tax (LOST) Revenue Analysis

Fiscal Year	Programmed Improvement	Opinion of Probable Cost	Amount Funded from LOST Revenue	Annual Revenue Added to Fund	Projected Fund Balance
Beginning Balance:					\$ 186,562.00
FY 2020 (Year 1)				\$ 88,000.00	\$ 274,562.00
	John Deere Riding Lawn Mower	\$ 5,000.00	\$ 5,000.00		\$ 269,562.00
	Pool Deck Patching	\$ 60,700.00	\$ 60,700.00		\$ 208,862.00
	South 6th Street Reconstruction + Storm Sewer Outlet	\$ 130,635.00	\$ 73,435.00		\$ 135,427.00
	Main Street South Parking Reconstruction- Engineering Costs	\$ 101,000.00	\$ 46,000.00		\$ 89,427.00
FY 2021 (Year 2)				\$ 88,000.00	\$ 177,427.00
	Main Street South Parking Reconstruction- Construction Costs	\$ 556,925.00	\$ 106,925.00		\$ 70,502.00
FY 2022 (Year 3)				\$ 88,000.00	\$ 158,502.00
	Grasshopper Mower with Bagger	\$ 5,000.00	\$ 5,000.00		\$ 153,502.00
	John Deere Riding Lawn Mower	\$ 5,000.00	\$ 5,000.00		\$ 148,502.00
FY 2023 (Year 4)				\$ 88,000.00	\$ 236,502.00
	Police Car	\$ 35,000.00	\$ 35,000.00		\$ 201,502.00
FY 2024 (Year 5)				\$ 88,000.00	\$ 289,502.00
Projected End Balance:					\$ 289,502.00



APPENDIX E: Road Use Tax Fund (RUTF) Revenue Analysis

City of Menville Capital Improvement Plan Update



Appendix E: Road Use Tax Fund (RUTF) Revenue Analysis

Fiscal Year	Programmed Improvement	Opinion of Probable Cost	Amount Funded from RUTF Revenue	Annual Revenue Added to Fund	Projected Fund Balance
Beginning Balance:					\$ 375,000.00
FY 2020 (Year 1)				\$ 200,000.00	\$ 575,000.00
	South 2nd Street Sanitary Sewer Extension	\$ 332,991.00	\$ 32,991.00		\$ 542,009.00
	South 6th Street Reconstruction + Storm Sewer Outlet	\$ 130,635.00	\$ 41,700.00		\$ 500,309.00
	HMA Overlay	\$ 49,000.00	\$ 49,000.00		\$ 451,309.00
	Main Street South Parking Reconstruction- Engineering Costs	\$ 101,000.00	\$ 30,000.00		\$ 421,309.00
	Terratam Street Water Main Extension	\$ 34,835.00	\$ 3,000.00		\$ 418,309.00
	Annual Budgetary Items Using RUTF	\$ 80,000.00	\$ 80,000.00		\$ 338,309.00
	RUTF Bonds for New Streets (Existing Debt)	\$ 75,000.00	\$ 75,000.00		\$ 263,309.00
FY 2021 (Year 2)				\$ 200,000.00	\$ 463,309.00
	Bobcat Skidloader (Public Works Department)	\$ 50,000.00	\$ 50,000.00		\$ 413,309.00
	HMA Overlay	\$ 49,000.00	\$ 49,000.00		\$ 364,309.00
	Frontage Road Water Main Replacement	\$ 206,710.00	\$ 15,400.00		\$ 348,909.00
	Annual Budgetary Items Using RUTF	\$ 80,000.00	\$ 80,000.00		\$ 268,909.00
	RUTF Bonds for New Streets (Existing Debt)	\$ 75,000.00	\$ 75,000.00		\$ 193,909.00
FY 2022 (Year 3)				\$ 200,000.00	\$ 393,909.00
	HMA Overlay	\$ 49,000.00	\$ 49,000.00		\$ 344,909.00
	North 3rd Street + Alley Water Main Extension	\$ 82,110.00	\$ 1,760.00		\$ 343,149.00
	Annual Budgetary Items Using RUTF	\$ 80,000.00	\$ 80,000.00		\$ 263,149.00
	RUTF Bonds for New Streets (Existing Debt)	\$ 75,000.00	\$ 75,000.00		\$ 188,149.00
FY 2023 (Year 4)				\$ 200,000.00	\$ 388,149.00
	HMA Overlay	\$ 49,000.00	\$ 49,000.00		\$ 339,149.00
	North 4th Street Water Main Extension	\$ 112,160.00	\$ 4,060.00		\$ 335,089.00
	Annual Budgetary Items Using RUTF	\$ 80,000.00	\$ 80,000.00		\$ 255,089.00
	RUTF Bonds for New Streets (Existing Debt)	\$ 75,000.00	\$ 75,000.00		\$ 180,089.00
FY 2024 (Year 5)				\$ 200,000.00	\$ 380,089.00
	HMA Overlay	\$ 49,000.00	\$ 49,000.00		\$ 331,089.00
	Annual Budgetary Items Using RUTF	\$ 80,000.00	\$ 80,000.00		\$ 251,089.00
	RUTF Bonds for New Streets (Existing Debt)	\$ 75,000.00	\$ 75,000.00		\$ 176,089.00
Projected End Balance:					\$ 176,089.00



APPENDIX F: Preliminary Engineer's Opinions of Probable Cost



POOL DECK PATCHING MOVILLE, IOWA

Location: Moville, IA
ISG Project #: 22433
Date: 01/10/2019

PRELIMINARY ENGINEER'S OPINION OF PROBABLE COST

ITEM NO.	CONSTRUCTION ITEM	UNIT	QUANTITY	UNIT PRICE	TOTAL AMOUNT
1	FULL DEPTH PCC PATCH	SY	360	\$ 110.00	\$ 39,600
2	PAVEMENT REMOVAL	SY	360	\$ 10	\$ 3,600
3	TESTING	LS	1	\$ 1,500	\$ 1,500
4	MOBILIZATION	LS	1	\$ 2,000	\$ 2,000
CONSTRUCTION COSTS					\$ 46,700
10% CONTINGENCY					\$ 5,000
20% NON CONSTRUCTION COST					\$ 9,000
TOTAL PROJECT COST					\$ 60,700

SOUTH 2ND STREET SANITARY SEWER EXTENSION MOVILLE, IOWA

Location: Moville, IA

ISG Project #: 22433

Date: 01/10/2019

PRELIMINARY ENGINEER'S OPINION OF PROBABLE COST

ITEM NO.	CONSTRUCTION ITEM	UNIT	QUANTITY	UNIT PRICE	TOTAL AMOUNT
1	TRAFFIC CONTROL	LS	1	\$ 5,000.00	\$ 5,000.00
2	CIRCULAR SANITARY SEWER MANHOLE, SW-301	EA	2	\$ 6,000.00	\$ 12,000.00
3	DETECTABLE WARNINGS FOR CURB RAMPS	SF	80	\$ 70.00	\$ 5,600.00
4	EXCAVATION, CLASS 10	CY	100	\$ 10.00	\$ 1,000.00
5	INLET PROTECTION DEVICE	EA	2	\$ 300.00	\$ 600.00
6	PAINTED PAVEMENT SYMBOL	EA	1	\$ 150.00	\$ 150.00
7	PAINTED PAVEMENT MARKINGS	LF	220	\$ 2.30	\$ 506.00
8	FULL DEPTH PCC PATCH	SY	100	\$ 110.00	\$ 11,000.00
9	PAVEMENT, REMOVAL	SY	1520	\$ 10.00	\$ 15,200.00
10	PCC PAVEMENT, 8", INTEGRAL, CURB AND GUTTER	SY	1520	\$ 55.00	\$ 83,600.00
11	SANITARY SEWER SERVICE, 4", SDR-26	EA	6	\$ 3,000.00	\$ 18,000.00
12	SANITARY SEWER, 8", SDR-26	LF	280	\$ 50.00	\$ 14,000.00
13	SANITARY SEWER, CONNECT TO EXISTING	EA	1	\$ 3,000.00	\$ 3,000.00
14	FULL DEPTH SIDEWALK PATCH	SY	9	\$ 90.00	\$ 810.00
15	SIDEWALK, 4", PCC	SY	200	\$ 75.00	\$ 15,000.00
16	SIDEWALK, 6", PCC	SY	90	\$ 85.00	\$ 7,650.00
17	SIDEWALK, REMOVAL	SY	290	\$ 10.00	\$ 2,900.00
18	SUBBASE, 6", CLASS A CRUSHED STONE	SY	1550	\$ 15.00	\$ 23,250.00
19	SUBDRAIN CLEANOUT	EA	4	\$ 500.00	\$ 2,000.00
20	SUBDRAIN, CORRUGATED, 6"	LF	600	\$ 12.00	\$ 7,200.00
21	SUBGRADE PREPARATION	SY	1550	\$ 2.50	\$ 3,875.00
22	WATER MAIN, 6", C900 PVC	LF	110	\$ 45.00	\$ 4,950.00
23	STABILIZED CONSTRUCTION ENTRANCE	TN	30	\$ 40.00	\$ 1,200.00
24	SEEDING, FERTILIZING AND MULCHING (ROW)	LS	1	\$ 1,500.00	\$ 1,500.00
25	TESTING	LS	1	\$ 4,000.00	\$ 4,000.00
26	MOBILIZATION	LS	1	\$ 12,000.00	\$ 12,000.00
CONSTRUCTION COSTS					\$ 255,991
10% CONTINGENCY					\$ 26,000
20% NON CONSTRUCTION COST					\$ 51,000
TOTAL PROJECT COST					\$ 332,991

SOUTH 6TH STREET RECONSTRUCTION & STORM SEWER OUTLET MOVILLE, IOWA

Location: Moville, IA

ISG Project #: 22433

Date: 01/10/2019

PRELIMINARY ENGINEER'S OPINION OF PROBABLE COST

ITEM NO.	CONSTRUCTION ITEM	UNIT	QUANTITY	UNIT PRICE	TOTAL AMOUNT
1	TRAFFIC CONTROL	LS	1	\$ 2,000.00	\$ 2,000.00
2	CLASS 10 EXCAVATION, COMMON EXCAVATION	CY	100	\$ 10.00	\$ 1,000.00
3	SUBGRADE PREPARATION	SY	620	\$ 2.50	\$ 1,550.00
4	SUBBASE, 6", MODIFIED CRUSHED STONE	SY	620	\$ 10.00	\$ 6,200.00
5	PCC PAVEMENT, 6", INTEGRAL CURB & GUTTER	SY	475	\$ 55.00	\$ 26,125.00
6	STORM SEWER, 15", 2000D RCP	LF	350	\$ 60.00	\$ 21,000.00
7	PIPE APRON, 15", 2000D RCP	EA	1	\$ 1,200.00	\$ 1,200.00
8	APRON FOOTING	EA	1	\$ 1,200.00	\$ 1,200.00
9	RIP RAP, EROSION STONE	TN	4	\$ 45.00	\$ 180.00
10	CIRCULAR SINGLE GRATE INTAKE, 48", SW-401	EA	4	\$ 5,000.00	\$ 20,000.00
11	FULL DEPTH PCC PATCH	SY	28	\$ 110.00	\$ 3,080.00
12	PAVEMENT REMOVAL	SY	475	\$ 10.00	\$ 4,750.00
13	INLET PROTECTION DEVICE	EA	4	\$ 350.00	\$ 1,400.00
14	CONCRETE WASHOUT	EA	1	\$ 750.00	\$ 750.00
15	STABILIZED CONSTRUCTION ENTRANCE	TN	30	\$ 40.00	\$ 1,200.00
16	SEEDING, FERTILIZING AND MULCHING (ROW)	LS	1	\$ 2,000.00	\$ 2,000.00
17	TESTING	LS	1	\$ 2,000.00	\$ 2,000.00
18	MOBILIZATION	LS	1	\$ 5,000.00	\$ 5,000.00
CONSTRUCTION COSTS					\$ 100,635
10% CONTINGENCY					\$ 10,000
20% NON CONSTRUCTION COST					\$ 20,000
TOTAL PROJECT COST					\$ 130,635

TERRATAM STREET WATER MAIN EXTENSION MOVILLE, IOWA

Location: Moville, IA

ISG Project #: 22433

Date: 01/10/2019

PRELIMINARY ENGINEER'S OPINION OF PROBABLE COST

ITEM NO.	CONSTRUCTION ITEM	UNIT	QUANTITY	UNIT PRICE	TOTAL AMOUNT
1	TRAFFIC CONTROL	LS	1	\$ 2,000.00	\$ 2,000.00
2	WATER MAIN, 6", C900 PVC	LF	83	\$ 45.00	\$ 3,735.00
3	CONNECT TO EXISTING WATER MAIN	EA	2	\$ 2,500.00	\$ 5,000.00
4	HYDRANT ASSEMBLY	EA	1	\$ 5,500.00	\$ 5,500.00
5	GATE VALVE & BOX, 6"	EA	2	\$ 1,800.00	\$ 3,600.00
6	FULL DEPTH PCC PATCH	SY	25	\$ 110.00	\$ 2,750.00
7	REMOVE HYDRANT ASSEMBLY	EA	1	\$ 750.00	\$ 750.00
8	SEEDING, FERTILIZING AND MULCHING (ROW)	LS	1	\$ 1,500.00	\$ 1,500.00
9	TESTING	LS	1	\$ 1,000.00	\$ 1,000.00
10	MOBILIZATION	LS	1	\$ 1,000.00	\$ 1,000.00
CONSTRUCTION COSTS					\$ 26,835
10% CONTINGENCY					\$ 3,000
20% NON CONSTRUCTION COST					\$ 5,000
TOTAL PROJECT COST					\$ 34,835

MAIN STREET SOUTH PARKING RECONSTRUCTION MOVILLE, IOWA

Location: Moville, IA

ISG Project #: 22433

Date: 01/10/2019

PRELIMINARY ENGINEER'S OPINION OF PROBABLE COST

ITEM NO.	CONSTRUCTION ITEM	UNIT	QUANTITY	UNIT PRICE	TOTAL AMOUNT
1	TRAFFIC CONTROL	LS	1	\$ 5,000.00	\$ 5,000
2	CIRCULAR SINGLE GRATE INTAKE, 48", SW-502	EA	7	\$ 5,000.00	\$ 35,000
3	DETECTABLE WARNINGS FOR CURB RAMPS	SF	150	\$ 70.00	\$ 10,500
4	EXCAVATION, CLASS 10	CY	300	\$ 10.00	\$ 3,000
5	INLET PROTECTION DEVICE	EA	10	\$ 300.00	\$ 3,000
6	STRUCTURE REMOVAL	EA	4	\$ 500.00	\$ 2,000
7	MANHOLE ADJUSTMENT, MINOR	EA	4	\$ 1,500.00	\$ 6,000
8	PAINTED PAVEMENT SYMBOL	EA	4	\$ 150.00	\$ 600
9	PAINTED PAVEMENT MARKINGS	LF	2000	\$ 2.30	\$ 4,600
10	PAVEMENT, REMOVAL	SY	2500	\$ 10.00	\$ 25,000
11	FULL DEPTH PCC PATCH	SY	70	\$ 110.00	\$ 7,700
12	PCC PAVEMENT, 8", INTEGRAL, CURB AND GUTTER	SY	2500	\$ 55.00	\$ 137,500
13	SIDEWALK, 4", PCC	SY	1105	\$ 75.00	\$ 82,875
14	SIDEWALK, 6", PCC	SY	55	\$ 85.00	\$ 4,675
15	SIDEWALK, REMOVAL	SY	1160	\$ 10.00	\$ 11,600
16	SIGNS, REMOVE AND REINSTALL	EA	3	\$ 250.00	\$ 750
17	STORM SEWER, 15", 2000D RCP	LF	1100	\$ 60.00	\$ 66,000
18	STORM SEWER, CONNECT TO EXISTING	EA	4	\$ 2,000.00	\$ 8,000
19	SUBBASE, 6", CLASS A CRUSHED STONE	SY	2450	\$ 15.00	\$ 36,750
20	SUBDRAIN, CORRUGATED, 6"	LF	1200	\$ 12.00	\$ 14,400
21	SUBGRADE PREPARATION	SY	2450	\$ 2.50	\$ 6,125
22	WATER MAIN, 6", C900 PVC	LF	80	\$ 45.00	\$ 3,600
23	CONCRETE WASHOUT	EA	1	\$ 750.00	\$ 750
24	TEMPORARY REMOVAL OF LIGHT POLES	LS	1	\$ 2,500.00	\$ 2,500
25	TESTING	LS	1	\$ 4,000.00	\$ 4,000
26	MOBILIZATION	LS	1	\$ 24,000.00	\$ 24,000
CONSTRUCTION COSTS					\$ 505,925
10% CONTINGENCY					\$ 51,000
20% NON CONSTRUCTION COST					\$ 101,000
TOTAL PROJECT COST					\$ 657,925

FRONTAGE ROAD WATER MAIN REPLACEMENT MOVILLE, IOWA

Location: Moville, IA

ISG Project #: 22433

Date: 01/10/2019

PRELIMINARY ENGINEER'S OPINION OF PROBABLE COST

ITEM NO.	CONSTRUCTION ITEM	UNIT	QUANTITY	UNIT PRICE	TOTAL AMOUNT
1	TRAFFIC CONTROL	LS	1	\$ 2,000.00	\$ 2,000.00
2	WATER MAIN, 8", DIP	LF	1001	\$ 60.00	\$ 60,060.00
3	WATER MAIN, 8", C900 PVC	LF	620	\$ 50.00	\$ 31,000.00
4	CONNECT TO EXISTING WATER MAIN	EA	2	\$ 2,500.00	\$ 5,000.00
5	HYDRANT ASSEMBLY	EA	5	\$ 5,000.00	\$ 25,000.00
6	GATE VALVE & BOX, 8"	EA	4	\$ 2,000.00	\$ 8,000.00
7	FULL DEPTH PCC PATCH	SY	140	\$ 110.00	\$ 15,400.00
8	REMOVE HYDRANT ASSEMBLY	EA	1	\$ 750.00	\$ 750.00
9	SEEDING, FERTILIZING AND MULCHING (ROW)	LS	1	\$ 2,500.00	\$ 2,500.00
10	TESTING	LS	1	\$ 2,000.00	\$ 2,000.00
11	MOBILIZATION	LS	1	\$ 7,000.00	\$ 7,000.00
CONSTRUCTION COSTS					\$ 158,710
10% CONTINGENCY					\$ 16,000
20% NON CONSTRUCTION COST					\$ 32,000
TOTAL PROJECT COST					\$ 206,710

NORTH 3RD STREET & ALLEY WATER MAIN EXTENSION MOVILLE, IOWA

Location: Moville, IA

ISG Project #: 22433

Date: 01/10/2019

PRELIMINARY ENGINEER'S OPINION OF PROBABLE COST

ITEM NO.	CONSTRUCTION ITEM	UNIT	QUANTITY	UNIT PRICE	TOTAL AMOUNT
1	TRAFFIC CONTROL	LS	1	\$ 2,000.00	\$ 2,000.00
2	WATER MAIN, 6", C900 PVC, DIRECTIONAL DRILLED	LF	295	\$ 50.00	\$ 14,750.00
3	CONNECT TO EXISTING WATER MAIN	EA	3	\$ 2,500.00	\$ 7,500.00
4	HYDRANT ASSEMBLY	EA	1	\$ 5,500.00	\$ 5,500.00
5	GATE VALVE & BOX, 6"	EA	2	\$ 1,800.00	\$ 3,600.00
6	GATE VALVE & BOX, 4"	EA	1	\$ 1,500.00	\$ 1,500.00
7	WATER SERVICE, 1", HDPE, DIRECTIONAL DRILL	EA	4	\$ 4,000.00	\$ 16,000.00
8	FULL DEPTH PCC PATCH	SY	16	\$ 110.00	\$ 1,760.00
9	ABANDON EXISTING WATER MAIN	LS	1	\$ 5,000.00	\$ 5,000.00
10	SEEDING, FERTILIZING AND MULCHING (ROW)	LS	1	\$ 1,500.00	\$ 1,500.00
11	TESTING	LS	1	\$ 1,000.00	\$ 1,000.00
12	MOBILIZATION	LS	1	\$ 3,000.00	\$ 3,000.00
CONSTRUCTION COSTS					\$ 63,110
10% CONTINGENCY					\$ 6,000
20% NON CONSTRUCTION COST					\$ 13,000
TOTAL PROJECT COST					\$ 82,110

NORTH 4TH STREET WATER MAIN EXTENSION MOVILLE, IOWA

Location: Moville, IA

ISG Project #: 22433

Date: 01/10/2019

PRELIMINARY ENGINEER'S OPINION OF PROBABLE COST

ITEM NO.	CONSTRUCTION ITEM	UNIT	QUANTITY	UNIT PRICE	TOTAL AMOUNT
1	TRAFFIC CONTROL	LS	1	\$ 1,500	\$ 1,500
2	WATER MAIN, 6", C900 PVC, DIRECTIONAL DRILL	LF	620	\$ 50	\$ 31,000
3	WATER MAIN, 4", C900 PVC, OPEN CUT	LF	40	\$ 40	\$ 1,600
4	CONNECT TO EXISTING WATER MAIN	EA	7	\$ 2,000	\$ 14,000
5	HYDRANT ASSEMBLY	EA	2	\$ 5,500	\$ 11,000
6	GATE VALVE & BOX, 6"	EA	5	\$ 1,800	\$ 9,000
7	GATE VALVE & BOX, 4"	EA	4	\$ 1,500	\$ 6,000
8	FULL DEPTH PCC PATCH	SY	23	\$ 110	\$ 2,530
9	REMOVE HYDRANT ASSEMBLY	EA	2	\$ 750	\$ 1,500
10	SIDEWALK, FULL DEPTH PATCH	SY	17	\$ 90	\$ 1,530
11	SEEDING, FERTILIZING AND MULCHING (ROW)	LS	1	\$ 1,500	\$ 1,500
12	TESTING	LS	1	\$ 1,000	\$ 1,000
13	MOBILIZATION	LS	1	\$ 4,000	\$ 4,000
CONSTRUCTION COSTS					\$ 86,160
10% CONTINGENCY					\$ 9,000
20% NON CONSTRUCTION COST					\$ 17,000
TOTAL PROJECT COST					\$ 112,160

TEST WELL MOVILLE, IOWA

Location: Moville, IA

ISG Project #: 22433

Date: 01/10/2019

PRELIMINARY ENGINEER'S OPINION OF PROBABLE COST

ITEM NO.	CONSTRUCTION ITEM	UNIT	QUANTITY	UNIT PRICE	TOTAL AMOUNT
1	MOBILIZATION	LS	1	\$ 7,000.00	\$ 7,000
2	DRILL 18" NOMINAL DRILL HOLE	LF	160	\$ 110.00	\$ 17,600
3	INSTALL 14" PRODUCTION STEEL CASING AND SEAL	LF	160	\$ 65.00	\$ 10,400
4	GROUT AROUND CASING	CF	170	\$ 21.00	\$ 3,570
5	DRILL 18" HOLE, INSTALL 14" STAINLESS STEEL SAND SCREEN	LF	90	\$ 300.00	\$ 27,000
6	TELEWISE COMPLETED WELL	LS	1	\$ 1,400.00	\$ 1,400
7	DEVELOP WELL SET-UP & REMOVAL	EA	1	\$ 5,000.00	\$ 5,000
8	DEVELOP WELL	HR	16	\$ 400.00	\$ 6,400
9	TEST PUMP WELL SET-UP & REMOVAL	EA	1	\$ 6,000.00	\$ 6,000
10	TEST PUMP WELL	HR	24	\$ 200.00	\$ 4,800
11	WELL ACIDIZATION SET-UP & REMOVAL	LS	1	\$ 4,500.00	\$ 4,500
12	WELL ACID SOLUTION	GAL	4,000	\$ 5.00	\$ 20,000
13	WELL ACID SURGING	HR	8	\$ 400.00	\$ 3,200
14	WELL ACID REMOVAL & PROPER DISPOSAL	LS	1	\$ 11,000.00	\$ 11,000
15	DISINFECT WELL	LS	1	\$ 2,500.00	\$ 2,500
16	SEEDING, FERTILIZING, AND MULCHING (CONVENTIONAL SEEDING)	LS	1	\$ 2,000.00	\$ 2,000
17	COMPLIANCE WITH WELL WATER POLLUTION PREVENTION PLAN (WWPPP)	LS	1	\$ 10,000.00	\$ 10,000
18	TESTING	LS	1	\$ 1,500.00	\$ 1,500
CONSTRUCTION COSTS					\$ 143,870
10% CONTINGENCY					\$ 14,000
20% NON CONSTRUCTION COST					\$ 29,000
TOTAL PROJECT COST					\$ 186,870

* TEST WELL DESIGN ALLOWS FOR ONE RELINING IN FUTURE

TOTAL HMA OVERLAY MOVILLE, IOWA



Location: Moville, IA
ISG Project #: 22433
Date: 2/12/2019

PRELIMINARY ENGINEER'S OPINION OF PROBABLE COST

ITEM NO.	CONSTRUCTION ITEM	UNIT	TOTAL AMOUNT
1	TRAFFIC CONTROL	LS	\$ 17,500
2	MANHOLE ADJUSTMENT, MINOR	EA	\$ 34,800
3	INTAKE ADJUSTMENT, MINOR	EA	\$ 12,000
4	MILLING, 1 7/8" NOMINAL	SY	\$ 101,628
5	SUBGRADE PREPARATION	SY	\$ 7,338
6	SUBBASE, 6", MODIFIED SUBBASE	SY	\$ 29,350
7	GRANULAR SURFACING REMOVAL	SY	\$ 22,080
8	CLASS 10 EXCAVATION, COMMON EXCAVATION	CY	\$ 22,800
9	PAVEMENT REMOVAL	SY	\$ 10,380
10	HMA, STANDARD TRAFFIC, 2" SURFACE COURSE	TN	\$ 351,104
11	HMA, STANDARD TRAFFIC, 2" INTERMEDIATE COURSE	TN	\$ 6,864
12	HMA, STANDARD TRAFFIC, 4" BASE COURSE	TN	\$ 60,008
13	PCC SIDEWALK, 6"	SY	\$ 61,200
14	DETECTABLE WARNINGS	SF	\$ 37,520
15	FULL DEPTH PATCH, HMA*	SY	\$ 32,700
16	SEEDING, FERTILIZING AND MULCHING	LS	\$ 16,000
17	TESTING	LS	\$ 17,000
18	MOBILIZATION	LS	\$ 39,000
CONSTRUCTION COSTS			\$ 879,272
10% CONTINGENCY			\$ 88,000
20% NON CONSTRUCTION COST			\$ 176,000
TOTAL PROJECT COST			\$ 1,143,272

*ASSUMED QUANTITY AS 2% OF TOTAL MILL AND OVERLAY

HMA OVERLAY - SECTION 1 - S 4TH STREET MOVILLE, IOWA

Location: Moville, IA

ISG Project #: 22433

Date: 2/12/2019

PRELIMINARY ENGINEER'S OPINION OF PROBABLE COST

ITEM NO.	CONSTRUCTION ITEM	UNIT	QUANTITY	UNIT PRICE	TOTAL AMOUNT
1	TRAFFIC CONTROL	LS	1	\$ 1,000.00	\$ 1,000
2	MANHOLE ADJUSTMENT, MINOR	EA	2	\$ 1,200.00	\$ 2,400
3	MILLING, 1 7/8" NOMINAL	SY	2051	\$ 4.00	\$ 8,204
4	CLASS 10 EXCAVATION, COMMON EXCAVATION	CY	50	\$ 20.00	\$ 1,000
5	PAVEMENT REMOVAL	SY	55	\$ 10.00	\$ 550
6	HMA, STANDARD TRAFFIC, 2" SURFACE COURSE	TN	250	\$ 104.00	\$ 26,000
7	PCC SIDEWALK, 6"	SY	55	\$ 80.00	\$ 4,400
8	DETECTABLE WARNINGS	SF	32	\$ 70.00	\$ 2,240
9	FULL DEPTH PATCH, HMA*	SY	50	\$ 60.00	\$ 3,000
10	SEEDING, FERTILIZING AND MULCHING	LS	1	\$ 1,000.00	\$ 1,000
11	TESTING	LS	1	\$ 1,000.00	\$ 1,000
12	MOBILIZATION	LS	1	\$ 2,000.00	\$ 2,000
CONSTRUCTION COSTS					\$ 52,794
10% CONTINGENCY					\$ 5,000
20% NON CONSTRUCTION COST					\$ 11,000
TOTAL PROJECT COST					\$ 68,794

*ASSUMED QUANTITY AS 2% OF TOTAL MILL AND OVERLAY

HMA OVERLAY - SECTION 2 - S 4TH ST & JACKSON ST MOVILLE, IOWA

Location: Moville, IA

ISG Project #: 22433

Date: 2/12/2019

PRELIMINARY ENGINEER'S OPINION OF PROBABLE COST

ITEM NO.	CONSTRUCTION ITEM	UNIT	QUANTITY	UNIT PRICE	TOTAL AMOUNT
1	TRAFFIC CONTROL	LS	1	\$ 1,000.00	\$ 1,000
2	MANHOLE ADJUSTMENT, MINOR	EA	1	\$ 1,200.00	\$ 1,200
3	MILLING, 1 7/8" NOMINAL	SY	1620	\$ 4.00	\$ 6,480
4	CLASS 10 EXCAVATION, COMMON EXCAVATION	CY	50	\$ 20.00	\$ 1,000
5	PAVEMENT REMOVAL	SY	70	\$ 10.00	\$ 700
6	HMA, STANDARD TRAFFIC, 2" SURFACE COURSE	TN	200	\$ 104.00	\$ 20,800
7	PCC SIDEWALK, 6"	SY	70	\$ 80.00	\$ 5,600
8	DETECTABLE WARNINGS	SF	48	\$ 70.00	\$ 3,360
9	FULL DEPTH PATCH, HMA*	SY	35	\$ 60.00	\$ 2,100
10	SEEDING, FERTILIZING AND MULCHING	LS	1	\$ 1,000.00	\$ 1,000
11	TESTING	LS	1	\$ 1,000.00	\$ 1,000
12	MOBILIZATION	LS	1	\$ 2,000.00	\$ 2,000
CONSTRUCTION COSTS					\$ 46,240
10% CONTINGENCY					\$ 5,000
20% NON CONSTRUCTION COST					\$ 9,000
TOTAL PROJECT COST					\$ 60,240

*ASSUMED QUANTITY AS 2% OF TOTAL MILL AND OVERLAY

HMA OVERLAY - SECTION 3 - JACKSON STREET MOVILLE, IOWA

Location: Moville, IA

ISG Project #: 22433

Date: 2/12/2019

PRELIMINARY ENGINEER'S OPINION OF PROBABLE COST

ITEM NO.	CONSTRUCTION ITEM	UNIT	QUANTITY	UNIT PRICE	TOTAL AMOUNT
1	TRAFFIC CONTROL	LS	1	\$ 1,000.00	\$ 1,000
2	MANHOLE ADJUSTMENT, MINOR	EA	3	\$ 1,200.00	\$ 3,600
3	MILLING, 1 7/8" NOMINAL	SY	2062	\$ 4.00	\$ 8,248
4	CLASS 10 EXCAVATION, COMMON EXCAVATION	CY	20	\$ 20.00	\$ 400
5	PAVEMENT REMOVAL	SY	20	\$ 10.00	\$ 200
6	HMA, STANDARD TRAFFIC, 2" SURFACE COURSE	TN	250	\$ 104.00	\$ 26,000
7	PCC SIDEWALK, 6"	SY	20	\$ 80.00	\$ 1,600
8	DETECTABLE WARNINGS	SF	32	\$ 70.00	\$ 2,240
9	FULL DEPTH PATCH, HMA*	SY	45	\$ 60.00	\$ 2,700
10	SEEDING, FERTILIZING AND MULCHING	LS	1	\$ 1,000.00	\$ 1,000
11	TESTING	LS	1	\$ 1,000.00	\$ 1,000
12	MOBILIZATION	LS	1	\$ 2,000.00	\$ 2,000
CONSTRUCTION COSTS					\$ 49,988
10% CONTINGENCY					\$ 5,000
20% NON CONSTRUCTION COST					\$ 10,000
TOTAL PROJECT COST					\$ 64,988

*ASSUMED QUANTITY AS 2% OF TOTAL MILL AND OVERLAY

HMA OVERLAY - SECTION 4 - SOUTH ST & S 3RD ST MOVILLE, IOWA

Location: Moville, IA

ISG Project #: 22433

Date: 2/12/2019

PRELIMINARY ENGINEER'S OPINION OF PROBABLE COST

ITEM NO.	CONSTRUCTION ITEM	UNIT	QUANTITY	UNIT PRICE	TOTAL AMOUNT
1	TRAFFIC CONTROL	LS	1	\$ 1,000.00	\$ 1,000
2	MANHOLE ADJUSTMENT, MINOR	EA	1	\$ 1,200.00	\$ 1,200
3	MILLING, 1 7/8" NOMINAL	SY	1742	\$ 4.00	\$ 6,968
4	CLASS 10 EXCAVATION, COMMON EXCAVATION	CY	20	\$ 20.00	\$ 400
5	PAVEMENT REMOVAL	SY	30	\$ 10.00	\$ 300
6	HMA, STANDARD TRAFFIC, 2" SURFACE COURSE	TN	215	\$ 104.00	\$ 22,360
7	PCC SIDEWALK, 6"	SY	30	\$ 80.00	\$ 2,400
8	DETECTABLE WARNINGS	SF	32	\$ 70.00	\$ 2,240
9	FULL DEPTH PATCH, HMA*	SY	35	\$ 60.00	\$ 2,100
10	SEEDING, FERTILIZING AND MULCHING	LS	1	\$ 1,000.00	\$ 1,000
11	TESTING	LS	1	\$ 1,000.00	\$ 1,000
12	MOBILIZATION	LS	1	\$ 2,000.00	\$ 2,000
CONSTRUCTION COSTS					\$ 42,968
10% CONTINGENCY					\$ 4,000
20% NON CONSTRUCTION COST					\$ 9,000
TOTAL PROJECT COST					\$ 55,968

*ASSUMED QUANTITY AS 2% OF TOTAL MILL AND OVERLAY

HMA OVERLAY - SECTION 5 - JACKSON ST & S 3RD ST MOVILLE, IOWA

Location: Moville, IA

ISG Project #: 22433

Date: 2/12/2019

PRELIMINARY ENGINEER'S OPINION OF PROBABLE COST

ITEM NO.	CONSTRUCTION ITEM	UNIT	QUANTITY	UNIT PRICE	TOTAL AMOUNT
1	TRAFFIC CONTROL	LS	1	\$ 1,000.00	\$ 1,000
2	MANHOLE ADJUSTMENT, MINOR	EA	1	\$ 1,200.00	\$ 1,200
3	MILLING, 1 7/8" NOMINAL	SY	1835	\$ 4.00	\$ 7,340
4	CLASS 10 EXCAVATION, COMMON EXCAVATION	CY	50	\$ 20.00	\$ 1,000
5	PAVEMENT REMOVAL	SY	68	\$ 10.00	\$ 680
6	HMA, STANDARD TRAFFIC, 2" SURFACE COURSE	TN	225	\$ 104.00	\$ 23,400
7	PCC SIDEWALK, 6"	SY	68	\$ 80.00	\$ 5,440
8	DETECTABLE WARNINGS	SF	48	\$ 70.00	\$ 3,360
9	FULL DEPTH PATCH, HMA*	SY	40	\$ 60.00	\$ 2,400
10	SEEDING, FERTILIZING AND MULCHING	LS	1	\$ 1,000.00	\$ 1,000
11	TESTING	LS	1	\$ 1,000.00	\$ 1,000
12	MOBILIZATION	LS	1	\$ 2,000.00	\$ 2,000
CONSTRUCTION COSTS					\$ 49,820
10% CONTINGENCY					\$ 5,000
20% NON CONSTRUCTION COST					\$ 10,000
TOTAL PROJECT COST					\$ 64,820

*ASSUMED QUANTITY AS 2% OF TOTAL MILL AND OVERLAY

HMA OVERLAY - SECTION 6 - S 4TH ST & JONES ST MOVILLE, IOWA

Location: Moville, IA

ISG Project #: 22433

Date: 2/12/2019

PRELIMINARY ENGINEER'S OPINION OF PROBABLE COST

ITEM NO.	CONSTRUCTION ITEM	UNIT	QUANTITY	UNIT PRICE	TOTAL AMOUNT
1	TRAFFIC CONTROL	LS	1	\$ 1,000.00	\$ 1,000
2	MANHOLE ADJUSTMENT, MINOR	EA	4	\$ 1,200.00	\$ 4,800
3	MILLING, 1 7/8" NOMINAL	SY	2470	\$ 4.00	\$ 9,880
4	CLASS 10 EXCAVATION, COMMON EXCAVATION	CY	20	\$ 20.00	\$ 400
5	PAVEMENT REMOVAL	SY	30	\$ 10.00	\$ 300
6	HMA, STANDARD TRAFFIC, 2" SURFACE COURSE	TN	300	\$ 104.00	\$ 31,200
7	PCC SIDEWALK, 6"	SY	30	\$ 80.00	\$ 2,400
8	DETECTABLE WARNINGS	SF	24	\$ 70.00	\$ 1,680
9	FULL DEPTH PATCH, HMA*	SY	50	\$ 60.00	\$ 3,000
10	SEEDING, FERTILIZING AND MULCHING	LS	1	\$ 1,000.00	\$ 1,000
11	TESTING	LS	1	\$ 1,000.00	\$ 1,000
12	MOBILIZATION	LS	1	\$ 3,000.00	\$ 3,000
CONSTRUCTION COSTS					\$ 59,660
10% CONTINGENCY					\$ 6,000
20% NON CONSTRUCTION COST					\$ 12,000
TOTAL PROJECT COST					\$ 77,660

*ASSUMED QUANTITY AS 2% OF TOTAL MILL AND OVERLAY

HMA OVERLAY - SECTION 7 - S 3RD ST & JONES ST MOVILLE, IOWA

Location: Moville, IA

ISG Project #: 22433

Date: 2/12/2019

PRELIMINARY ENGINEER'S OPINION OF PROBABLE COST

ITEM NO.	CONSTRUCTION ITEM	UNIT	QUANTITY	UNIT PRICE	TOTAL AMOUNT
1	TRAFFIC CONTROL	LS	1	\$ 1,000.00	\$ 1,000
2	MANHOLE ADJUSTMENT, MINOR	EA	2	\$ 1,200.00	\$ 2,400
3	INTAKE ADJUSTMENT, MINOR	EA	6	\$ 1,000.00	\$ 6,000
4	MILLING, 1 7/8" NOMINAL	SY	1855	\$ 4.00	\$ 7,420
5	CLASS 10 EXCAVATION, COMMON EXCAVATION	CY	50	\$ 20.00	\$ 1,000
6	PAVEMENT REMOVAL	SY	106	\$ 10.00	\$ 1,060
7	HMA, STANDARD TRAFFIC, 2" SURFACE COURSE	TN	225	\$ 104.00	\$ 23,400
8	PCC SIDEWALK, 6"	SY	106	\$ 80.00	\$ 8,480
9	DETECTABLE WARNINGS	SF	72	\$ 70.00	\$ 5,040
10	FULL DEPTH PATCH, HMA*	SY	40	\$ 60.00	\$ 2,400
11	SEEDING, FERTILIZING AND MULCHING	LS	1	\$ 1,000.00	\$ 1,000
12	TESTING	LS	1	\$ 1,000.00	\$ 1,000
13	MOBILIZATION	LS	1	\$ 3,000.00	\$ 3,000
CONSTRUCTION COSTS					\$ 63,200
10% CONTINGENCY					\$ 6,000
20% NON CONSTRUCTION COST					\$ 13,000
TOTAL PROJECT COST					\$ 82,200

*ASSUMED QUANTITY AS 2% OF TOTAL MILL AND OVERLAY

HMA OVERLAY - SECTION 8 - S 2ND ST & JACKSON ST MOVILLE, IOWA

Location: Movable, IA

ISG Project #: 22433

Date: 2/12/2019

PRELIMINARY ENGINEER'S OPINION OF PROBABLE COST

ITEM NO.	CONSTRUCTION ITEM	UNIT	QUANTITY	UNIT PRICE	TOTAL AMOUNT
1	TRAFFIC CONTROL	LS	1	\$ 1,000.00	\$ 1,000
2	MANHOLE ADJUSTMENT, MINOR	EA	1	\$ 1,200.00	\$ 1,200
3	INTAKE ADJUSTMENT, MINOR	EA	2	\$ 1,000.00	\$ 2,000
4	MILLING, 1 7/8" NOMINAL	SY	1925	\$ 4.00	\$ 7,700
5	CLASS 10 EXCAVATION, COMMON EXCAVATION	CY	50	\$ 20.00	\$ 1,000
6	PAVEMENT REMOVAL	SY	100	\$ 10.00	\$ 1,000
7	HMA, STANDARD TRAFFIC, 2" SURFACE COURSE	TN	212	\$ 104.00	\$ 22,048
8	PCC SIDEWALK, 6"	SY	100	\$ 80.00	\$ 8,000
9	DETECTABLE WARNINGS	SF	80	\$ 70.00	\$ 5,600
10	FULL DEPTH PATCH, HMA*	SY	40	\$ 60.00	\$ 2,400
11	SEEDING, FERTILIZING AND MULCHING	LS	1	\$ 1,000.00	\$ 1,000
12	TESTING	LS	1	\$ 1,000.00	\$ 1,000
13	MOBILIZATION	LS	1	\$ 3,000.00	\$ 3,000
CONSTRUCTION COSTS					\$ 56,948
10% CONTINGENCY					\$ 6,000
20% NON CONSTRUCTION COST					\$ 11,000
TOTAL PROJECT COST					\$ 73,948

*ASSUMED QUANTITY AS 2% OF TOTAL MILL AND OVERLAY

HMA OVERLAY - SECTION 9 - S 2ND ST MOVILLE, IOWA

Location: Moville, IA

ISG Project #: 22433

Date: 2/12/2019

PRELIMINARY ENGINEER'S OPINION OF PROBABLE COST

ITEM NO.	CONSTRUCTION ITEM	UNIT	QUANTITY	UNIT PRICE	TOTAL AMOUNT
1	TRAFFIC CONTROL	LS	1	\$ 1,000.00	\$ 1,000
2	MANHOLE ADJUSTMENT, MINOR	EA	4	\$ 1,200.00	\$ 4,800
3	INTAKE ADJUSTMENT, MINOR	EA	3	\$ 1,000.00	\$ 3,000
4	MILLING, 1 7/8" NOMINAL	SY	2070	\$ 4.00	\$ 8,280
5	CLASS 10 EXCAVATION, COMMON EXCAVATION	CY	10	\$ 20.00	\$ 200
6	PAVEMENT REMOVAL	SY	20	\$ 10.00	\$ 200
7	HMA, STANDARD TRAFFIC, 2" SURFACE COURSE	TN	250	\$ 104.00	\$ 26,000
8	PCC SIDEWALK, 6"	SY	20	\$ 80.00	\$ 1,600
9	DETECTABLE WARNINGS	SF	16	\$ 70.00	\$ 1,120
10	FULL DEPTH PATCH, HMA*	SY	45	\$ 60.00	\$ 2,700
11	SEEDING, FERTILIZING AND MULCHING	LS	1	\$ 1,000.00	\$ 1,000
12	TESTING	LS	1	\$ 1,000.00	\$ 1,000
13	MOBILIZATION	LS	1	\$ 2,000.00	\$ 2,000
CONSTRUCTION COSTS					\$ 52,900
10% CONTINGENCY					\$ 5,000
20% NON CONSTRUCTION COST					\$ 11,000
TOTAL PROJECT COST					\$ 68,900

*ASSUMED QUANTITY AS 2% OF TOTAL MILL AND OVERLAY

HMA OVERLAY - SECTION 10 - S PEARL ST & JACKSON ST MOVILLE, IOWA

Location: Moville, IA

ISG Project #: 22433

Date: 2/12/2019

PRELIMINARY ENGINEER'S OPINION OF PROBABLE COST

ITEM NO.	CONSTRUCTION ITEM	UNIT	QUANTITY	UNIT PRICE	TOTAL AMOUNT
1	TRAFFIC CONTROL	LS	1	\$ 1,000.00	\$ 1,000
2	MANHOLE ADJUSTMENT, MINOR	EA	5	\$ 1,200.00	\$ 6,000
3	MILLING, 1 7/8" NOMINAL	SY	1960	\$ 4.00	\$ 7,840
4	CLASS 10 EXCAVATION, COMMON EXCAVATION	CY	30	\$ 20.00	\$ 600
5	PAVEMENT REMOVAL	SY	30	\$ 10.00	\$ 300
6	HMA, STANDARD TRAFFIC, 2" SURFACE COURSE	TN	240	\$ 104.00	\$ 24,960
7	PCC SIDEWALK, 6"	SY	30	\$ 80.00	\$ 2,400
8	DETECTABLE WARNINGS	SF	24	\$ 70.00	\$ 1,680
9	FULL DEPTH PATCH, HMA*	SY	40	\$ 60.00	\$ 2,400
10	SEEDING, FERTILIZING AND MULCHING	LS	1	\$ 1,000.00	\$ 1,000
11	TESTING	LS	1	\$ 1,000.00	\$ 1,000
12	MOBILIZATION	LS	1	\$ 2,000.00	\$ 2,000
CONSTRUCTION COSTS					\$ 51,180
10% CONTINGENCY					\$ 5,000
20% NON CONSTRUCTION COST					\$ 10,000
TOTAL PROJECT COST					\$ 66,180

*ASSUMED QUANTITY AS 2% OF TOTAL MILL AND OVERLAY

HMA OVERLAY - SECTION 11 - JONES ST & S PEARL ST MOVILLE, IOWA

Location: Moville, IA

ISG Project #: 22433

Date: 2/12/2019

PRELIMINARY ENGINEER'S OPINION OF PROBABLE COST

ITEM NO.	CONSTRUCTION ITEM	UNIT	QUANTITY	UNIT PRICE	TOTAL AMOUNT
1	TRAFFIC CONTROL	LS	1	\$ 1,500.00	\$ 1,500
2	MANHOLE ADJUSTMENT, MINOR	EA	4	\$ 1,200.00	\$ 4,800
3	MILLING, 1 7/8" NOMINAL	SY	1852	\$ 4.00	\$ 7,408
4	CLASS 10 EXCAVATION, COMMON EXCAVATION	CY	50	\$ 20.00	\$ 1,000
5	PAVEMENT REMOVAL	SY	200	\$ 10.00	\$ 2,000
6	HMA, STANDARD TRAFFIC, 2" SURFACE COURSE	TN	225	\$ 104.00	\$ 23,400
7	PCC SIDEWALK, 6"	SY	200	\$ 80.00	\$ 16,000
8	DETECTABLE WARNINGS	SF	96	\$ 70.00	\$ 6,720
9	FULL DEPTH PATCH, HMA*	SY	40	\$ 60.00	\$ 2,400
10	SEEDING, FERTILIZING AND MULCHING	LS	1	\$ 1,000.00	\$ 1,000
11	TESTING	LS	1	\$ 1,000.00	\$ 1,000
12	MOBILIZATION	LS	1	\$ 3,000.00	\$ 3,000
CONSTRUCTION COSTS					\$ 70,228
10% CONTINGENCY					\$ 7,000
20% NON CONSTRUCTION COST					\$ 14,000
TOTAL PROJECT COST					\$ 91,228

*ASSUMED QUANTITY AS 2% OF TOTAL MILL AND OVERLAY

HMA OVERLAY - SECTION 12 - ALLEYS SOUTH AND NORTH OF MAIN MOVILLE, IOWA

Location: Moville, IA
 ISG Project #: 22433
 Date: 2/12/2019

PRELIMINARY ENGINEER'S OPINION OF PROBABLE COST

ITEM NO.	CONSTRUCTION ITEM	UNIT	QUANTITY	UNIT PRICE	TOTAL AMOUNT
1	TRAFFIC CONTROL	LS	1	\$ 1,000.00	\$ 1,000
2	MILLING, 1 7/8" NOMINAL	SY	2120	\$ 4.00	\$ 8,480
3	CLASS 10 EXCAVATION, COMMON EXCAVATION	CY	20	\$ 20.00	\$ 400
4	PAVEMENT REMOVAL	SY	36	\$ 10.00	\$ 360
5	HMA, STANDARD TRAFFIC, 2" SURFACE COURSE	TN	260	\$ 104.00	\$ 27,040
6	PCC SIDEWALK, 6"	SY	36	\$ 80.00	\$ 2,880
7	DETECTABLE WARNINGS	SF	32	\$ 70.00	\$ 2,240
8	FULL DEPTH PATCH, HMA*	SY	45	\$ 60.00	\$ 2,700
9	SEEDING, FERTILIZING AND MULCHING	LS	1	\$ 1,000.00	\$ 1,000
10	TESTING	LS	1	\$ 1,000.00	\$ 1,000
11	MOBILIZATION	LS	1	\$ 2,000.00	\$ 2,000
CONSTRUCTION COSTS					\$ 49,100
10% CONTINGENCY					\$ 5,000
20% NON CONSTRUCTION COST					\$ 10,000
TOTAL PROJECT COST					\$ 64,100

*ASSUMED QUANTITY AS 2% OF TOTAL MILL AND OVERLAY



HMA OVERLAY - SECTION 13 - ALLEY NORTH OF MAIN ST MOVILLE, IOWA

Location: Moville, IA
ISG Project #: 22433
Date: 2/12/2019

PRELIMINARY ENGINEER'S OPINION OF PROBABLE COST

ITEM NO.	CONSTRUCTION ITEM	UNIT	QUANTITY	UNIT PRICE	TOTAL AMOUNT
1	TRAFFIC CONTROL	LS	1	\$ 1,000.00	\$ 1,000
2	MANHOLE ADJUSTMENT, MINOR	EA	1	\$ 1,200.00	\$ 1,200
3	MILLING, 1 7/8" NOMINAL	SY	1845	\$ 4.00	\$ 7,380
4	HMA, STANDARD TRAFFIC, 2" SURFACE COURSE	TN	225	\$ 104.00	\$ 23,400
5	FULL DEPTH PATCH, HMA*	SY	40	\$ 60.00	\$ 2,400
6	TESTING	LS	1	\$ 1,000.00	\$ 1,000
7	MOBILIZATION	LS	1	\$ 2,000.00	\$ 2,000
CONSTRUCTION COSTS					\$ 38,380
10% CONTINGENCY					\$ 4,000
20% NON CONSTRUCTION COST					\$ 8,000
TOTAL PROJECT COST					\$ 50,380

*ASSUMED QUANTITY AS 2% OF TOTAL MILL AND OVERLAY

ALLEY RECONSTRUCTION - SECTION 14 - NORTH OF MAIN ST MOVILLE, IOWA

Location: Moville, IA

ISG Project #: 22433

Date: 2/12/2019

PRELIMINARY ENGINEER'S OPINION OF PROBABLE COST

ITEM NO.	CONSTRUCTION ITEM	UNIT	QUANTITY	UNIT PRICE	TOTAL AMOUNT
1	TRAFFIC CONTROL	LS	1	\$ 1,000.00	\$ 1,000
2	INTAKE ADJUSTMENT, MINOR	EA	1	\$ 1,000.00	\$ 1,000
3	SUBGRADE PREPARATION	SY	1160	\$ 2.50	\$ 2,900
4	SUBBASE, 6", MODIFIED SUBBASE	SY	1160	\$ 10.00	\$ 11,600
5	GRANULAR SURFACING REMOVAL	SY	1003	\$ 10.00	\$ 10,030
6	CLASS 10 EXCAVATION, COMMON EXCAVATION	CY	275	\$ 20.00	\$ 5,500
7	HMA, STANDARD TRAFFIC, 2" SURFACE COURSE	TN	120	\$ 104.00	\$ 12,480
8	HMA, STANDARD TRAFFIC, 4" BASE COURSE	TN	242	\$ 104.00	\$ 25,168
9	SEEDING, FERTILIZING AND MULCHING	LS	1	\$ 1,000.00	\$ 1,000
10	TESTING	LS	1	\$ 1,000.00	\$ 1,000
11	MOBILIZATION	LS	1	\$ 4,000.00	\$ 4,000
CONSTRUCTION COSTS					\$ 75,678
10% CONTINGENCY					\$ 8,000
20% NON CONSTRUCTION COST					\$ 15,000
TOTAL PROJECT COST					\$ 98,678

*ASSUMED QUANTITY AS 2% OF TOTAL MILL AND OVERLAY

ALLEY RECONSTRUCTION - SECTION 15 - SOUTH OF JONES ST MOVILLE, IOWA

Location: Merville, IA

ISG Project #: 22433

Date: 2/12/2019

PRELIMINARY ENGINEER'S OPINION OF PROBABLE COST

ITEM NO.	CONSTRUCTION ITEM	UNIT	QUANTITY	UNIT PRICE	TOTAL AMOUNT
1	TRAFFIC CONTROL	LS	1	\$ 1,000.00	\$ 1,000
2	SUBGRADE PREPARATION	SY	685	\$ 2.50	\$ 1,713
3	SUBBASE, 6", MODIFIED SUBBASE	SY	685	\$ 10.00	\$ 6,850
4	GRANULAR SURFACING REMOVAL	SY	520	\$ 10.00	\$ 5,200
5	CLASS 10 EXCAVATION, COMMON EXCAVATION	CY	150	\$ 20.00	\$ 3,000
6	HMA, STANDARD TRAFFIC, 2" SURFACE COURSE	TN	63	\$ 104.00	\$ 6,552
7	HMA, STANDARD TRAFFIC, 4" BASE COURSE	TN	125	\$ 104.00	\$ 13,000
8	SEEDING, FERTILIZING AND MULCHING	LS	1	\$ 1,000.00	\$ 1,000
9	TESTING	LS	1	\$ 1,000.00	\$ 1,000
10	MOBILIZATION	LS	1	\$ 2,000.00	\$ 2,000
CONSTRUCTION COSTS					\$ 41,315
10% CONTINGENCY					\$ 4,000
20% NON CONSTRUCTION COST					\$ 8,000
TOTAL PROJECT COST					\$ 53,315

*ASSUMED QUANTITY AS 2% OF TOTAL MILL AND OVERLAY

ALLEY RECONSTRUCTION - SECTION 16 - SOUTH OF JONES ST MOVILLE, IOWA

Location: Merville, IA

ISG Project #: 22433

Date: 2/12/2019

PRELIMINARY ENGINEER'S OPINION OF PROBABLE COST

ITEM NO.	CONSTRUCTION ITEM	UNIT	QUANTITY	UNIT PRICE	TOTAL AMOUNT
1	TRAFFIC CONTROL	LS	1	\$ 1,000.00	\$ 1,000
2	SUBGRADE PREPARATION	SY	545	\$ 2.50	\$ 1,363
3	SUBBASE, 6", MODIFIED SUBBASE	SY	545	\$ 10.00	\$ 5,450
4	GRANULAR SURFACING REMOVAL	SY	412	\$ 10.00	\$ 4,120
5	CLASS 10 EXCAVATION, COMMON EXCAVATION	CY	120	\$ 20.00	\$ 2,400
6	HMA, STANDARD TRAFFIC, 2" SURFACE COURSE	TN	50	\$ 104.00	\$ 5,200
7	HMA, STANDARD TRAFFIC, 4" BASE COURSE	TN	90	\$ 104.00	\$ 9,360
8	SEEDING, FERTILIZING AND MULCHING	LS	1	\$ 1,000.00	\$ 1,000
9	TESTING	LS	1	\$ 1,000.00	\$ 1,000
10	MOBILIZATION	LS	1	\$ 1,000.00	\$ 1,000
CONSTRUCTION COSTS					\$ 31,893
10% CONTINGENCY					\$ 3,000
20% NON CONSTRUCTION COST					\$ 6,000
TOTAL PROJECT COST					\$ 40,893

*ASSUMED QUANTITY AS 2% OF TOTAL MILL AND OVERLAY

JONES ST RECONSTRUCTION - SECTION 17

MOVILLE, IOWA

Location: Merville, IA

ISG Project #: 22433

Date: 2/12/2019

PRELIMINARY ENGINEER'S OPINION OF PROBABLE COST

ITEM NO.	CONSTRUCTION ITEM	UNIT	QUANTITY	UNIT PRICE	TOTAL AMOUNT
1	TRAFFIC CONTROL	LS	1	\$ 1,000.00	\$ 1,000
2	SUBGRADE PREPARATION	SY	545	\$ 2.50	\$ 1,363
3	SUBBASE, 6", MODIFIED SUBBASE	SY	545	\$ 10.00	\$ 5,450
4	GRANULAR SURFACING REMOVAL	SY	273	\$ 10.00	\$ 2,730
5	CLASS 10 EXCAVATION, COMMON EXCAVATION	CY	175	\$ 20.00	\$ 3,500
6	PAVEMENT REMOVAL	SY	273	\$ 10.00	\$ 2,730
7	HMA, STANDARD TRAFFIC, 2" SURFACE COURSE	TN	66	\$ 104.00	\$ 6,864
8	HMA, STANDARD TRAFFIC, 2" INTERMEDIATE COURSE	TN	66	\$ 104.00	\$ 6,864
9	HMA, STANDARD TRAFFIC, 4" BASE COURSE	TN	120	\$ 104.00	\$ 12,480
10	SEEDING, FERTILIZING AND MULCHING	LS	1	\$ 1,000.00	\$ 1,000
11	TESTING	LS	1	\$ 1,000.00	\$ 1,000
12	MOBILIZATION	LS	1	\$ 2,000.00	\$ 2,000
CONSTRUCTION COSTS					\$ 46,981
10% CONTINGENCY					\$ 5,000
20% NON CONSTRUCTION COST					\$ 9,000
TOTAL PROJECT COST					\$ 60,981

*ASSUMED QUANTITY AS 2% OF TOTAL MILL AND OVERLAY

APPENDIX G: 2015 Annual Average Daily Traffic (AADT)

