

**VILLAGE OF WATERLOO
RESOLUTION NO. 12-10-19-02**

WHEREAS, the Board of Trustees of the Village of Waterloo approved a bid from JEO Consulting Group to serve as engineer on the FEMA projects as a result of the March 2019 flooding; and,

WHEREAS, JEO Consulting Group, Inc. has submitted an agreement to act as Engineer on these projects; and,

WHEREAS, JEO Consulting Group, Inc. estimates these costs to be \$42,650.00.

NOW THEREFORE, BE IT RESOLVED BY THE BOARD OF TRUSTEES OF THE VILLAGE OF WATERLOO, NEBRASKA, AS FOLLOWS:

THAT, the agreement with JEO Consulting Group, Inc. for the ^{Fema}~~Blondo Street~~ Project is hereby approved at a cost of \$42,650.00.

PASSED THIS 10 DAY OF December 2019

ATTEST:

Melissa Johnson
Village Clerk
Melissa Johnson



Village of Waterloo

[Signature]
Chairperson
Travis Harlow



**AGREEMENT
BETWEEN OWNER AND ENGINEER
FOR
PROFESSIONAL SERVICES**

THIS IS AN AGREEMENT effective as of _____ ("Effective Date") between Village of Waterloo ("Owner") and JEO Consulting Group, Inc. ("Engineer").

Owner's project, of which Engineer's services under this Agreement are a part, is generally identified as follows:

Waterloo 2019 Flood Damage Repairs, Streets and Drainage ("Project").

JEO Project Number: 190407.01

Owner and Engineer further agree as follows:

ARTICLE 1 - SERVICES OF ENGINEER

1.01 Scope

- A. Engineer shall provide, or cause to be provided, the services set forth herein and in Exhibit A.

ARTICLE 2 - OWNER'S RESPONSIBILITIES

2.01 Owner Responsibilities

- A. Owner responsibilities are outlined in Section 3 of Exhibit B.

ARTICLE 3 - COMPENSATION

3.01 Compensation

- A. Owner shall pay Engineer as set forth in Exhibit A and per the terms in Exhibit B.
- B. The fee for the Project is estimated as: \$42,650.00
- C. The Standard Hourly Rates Schedule shall be adjusted annually (as of approximately January 1st) to reflect equitable changes in the compensation payable to Engineer. The current hourly rate schedule can be provided upon request.

ARTICLE 4 - EXHIBITS AND SPECIAL PROVISIONS

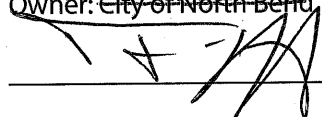
4.01 Exhibits

Exhibit A – Scope of Services
Exhibit B – General Conditions

4.02 Total Agreement

- A. This Agreement (consisting of pages 1 to 2 inclusive, together with the Exhibits identified as included above) constitutes the entire agreement between Owner and Engineer and supersedes all prior written or oral understandings. This Agreement may only be amended, supplemented, modified, or canceled by a duly executed written instrument.

IN WITNESS WHEREOF, the parties hereto have executed this Agreement.

Owner: Village of Waterloo
City of North Bend


By: Travis Harlow

Title: Village Board Chair

Date Signed: _____

Address for giving notices:

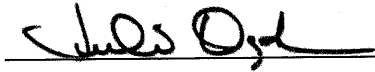
Village of Waterloo

509 S Front Street

PO Box 127

Waterloo, NE 68069

Engineer: JEO Consulting Group, Inc.



By: Julie Ogden, PE

Title: Project Manager

Date Signed: December 5, 2019

Address for giving notices:

JEO Consulting Group, Inc.

1937 N Chestnut Street

PO Box 207

Wahoo, NE 68066

Exhibit A Scope of Services

PROJECT UNDERSTANDING: The groups of work listed below are the known repairs to the Village of Waterloo's streets and drainage system from the site visit with FEMA in August 2019. It is anticipated that both groups of work would be bid at the same time but may have different completion schedules. The goal would be to have the construction work completed in 2020.

Please note that repairs to the Waterloo Levee are being completed by the U.S. Army Corps of Engineers and are not included in this agreement.

GROUP A WORK: The work will consist of repair and reconstruction of the streets at the locations noted below. The Village has completed preliminary repairs to maintain traffic on the streets. Work to be completed includes removal and replacement of damaged pavement, backfill including appropriate compactions, and seeding.

- Site 01: North Front Street near the 7th Street Intersection and north.
- Site 02: 7th Street concrete in front of the Waterloo Fire Station.
- Site 03: 240th Street near the intersection with 7th Street and Madison Street.
- Site 04: Madison Street near the intersection with 3rd Street.
- Site 05: River Road south of Denton Street.
- Site 06: South Front Street near the 1st Street Intersection.

GROUP B WORK: The work will consist of reconstruction of the storm sewer that has settled on the south side of the pond in the Homes at River Road (near 23416 Agee Lane). The original pipe pieces will be removed from the eroded hole, the hole filled, and the pipe replaced to its original location. If any of the sections are too damaged to be re-used, a new pipe section will be used.

GROUP C WORK: The work will consist of cleaning out a ditch (on the riverside of the levee) to restore drainage of stormwater discharging from the levee drainage structure pipe and to reduce the risk of debris inhibiting the existing pipe flap gate from closing properly. The location of the work is just to the north and west of the 240th Street/7th Street/Madison Street Intersection (or near the northeast corner of the El Bees parking lot). The estimated grading length is 150 feet.

SCOPE OF WORK:

1 DESIGN PHASE

- 1.1 Utilize Aerial Maps as the base for the project plans.
 - a. Topographic survey data will not be obtained for this project.
 - b. For Group A, JEO would reference elevation data from the previous overlay project (2014) on those locations that were included in the project.
 - c. For Group B work, JEO will research original design plans (in JEO files and/or village files) for the pipe to find the prior slope and outlet elevation.
 - d. For Group C, JEO would reference design information from the levee improvement project completed in 2010/2011.
- 1.2 Prepare 60% complete preliminary plans and specifications. Plans and specifications to include:
 - a. General location maps.
 - b. Roadway grading/rock surfacing/concrete paving plan, including geometrics and grades, as appropriate for each group of work.

Exhibit A Scope of Services

- c. Intersection and storm sewer plan and profile with corresponding technical specifications, as applicable for each group of work.
 - d. Grading plans for drainage work.
 - e. Erosion control plan.
 - f. Front end specifications complete with bidding, contract, and any required funding requirement documentation.
- 1.3 Perform an internal quality assurance/quality control (QA/QC) review of the 60% complete plans and specifications.
- 1.4 Attend one (1) meeting with the Owner to review the 60% complete preliminary design documents and review in detail with the Owner's designated representative(s).
- a. Review proposed repairs of pavement.
 - b. Review bidding and contract documents.
 - c. Review technical specifications for the paving.
- 1.5 Submit 60% complete plans to utility companies for review of potential conflicts. Owner is to provide names and addresses for utility companies licensed or permitted with the Owner that may have utilities in the project area.
- 1.6 Revise and advance plans and specifications based on the QA/QC comments and the 60% complete design meeting with the Owner.
- 1.7 Prepare 90% complete plans and specifications. Plans and specifications to include:
- a. All sheets previously listed for the 60% complete plans.
 - b. Insertion of design detail sheets.
 - c. Completion of the special provisions section of the specifications.
 - d. Prepare forms for Contract Documents including proposals, advertisements for bids, construction contracts, and payment and performance bonds as required, all subject to the approval of the Owner's legal counsel.
- 1.8 Perform an internal QA/QC review of the 90% complete plans and specifications.
- 1.9 Finalize construction drawings and specifications subject to Owner's approval.
- 1.10 Prepare a list of final construction quantities and furnish a final opinion of probable construction cost.
- 1.11 Provide completed final documents (Plans, Specifications, and Contract Documents) to Owner for review and approval.
- 1.12 Attend up to one (1) meeting to review final design documents and opinions of probable construction cost, obtain approval of the final plans, specifications and bid documents and receive authorization to submit final plans, specifications and bid documents to the appropriate agencies for review and approval.
- 2 BIDDING AND NEGOTIATION PHASE**
- 2.1 Provide assistance with authorizing the advertisement for bids and setting the bid date and time.
- 2.2 Furnish copies of plans, specifications, and contract documents of the project to prospective bidders, material suppliers, and other interested parties upon their request and payment of the purchase cost established for the documents.
- 2.3 Respond to inquiries from prospective bidders and prepare any addenda required.
- 2.4 Assist the Owner in securing construction bids for the project.
- 2.5 Assist the Owner at the bid opening consisting of one (1) meeting to ensure proper rules are followed and adhered to during the process to ensure all requirements of State and Federal law are fulfilled.
- 2.6 Tabulate and analyze construction bids and report on them to the Owner, together with advice and assistance to the Owner in award of construction contract.

Exhibit A

Scope of Services

- 2.7 Prepare and submit necessary information to the Owner for project award approval. Attend Village Board meeting for award of contract.
- 2.8 Prepare Contract Documents (Construction Contract and Notice to Proceed) for execution by the Prime Contractor and the Owner; provide cursory reviews of all insurance and bonds submittals and present to the Owner's legal and insurance counsel for approval; then advise the Owner to proceed with execution of all documents.
- 2.9 Provide copies of all executed Contract Documents to the Owner and Prime Contractor.

3 CONSTRUCTION PHASE

- 3.1 Schedule and conduct a Pre-construction Conference, consisting of one (1) meeting prior to construction beginning. This conference (Pre-Con) will review the required timelines set forth in the specifications, lines of communication, key contacts of those involved, review any conflicts with utilities or schedules, review the schedule proposed by the Contractor, review any requirements of the Contractor for locates and staking needs, etc.
- 3.2 Provide construction marking of the proposed removals for pavement repairs.
 - a. No grade stakes will be provided.
- 3.3 Review shop drawings and related data supplied by the Contractor.
- 3.4 Schedule and conduct up to two (2) progress meetings with Owner and Contractor.
- 3.5 Provide interpretation of the plans and specifications, when necessary.
- 3.6 Review and process Contractor's monthly payment applications and change orders (if necessary) and provide to Owner for review and approval.
 - a. Anticipate 3 total pay applications (2 partial and 1 final) and attendance at Board meetings (3 meetings total) to review each for approval.
- 3.7 Consult with and advise Owner during construction in regard to all aspects of the project.
- 3.8 Coordinate and review geotechnical soil and concrete testing results. Construction material testing (compaction and concrete compressive strength) cost to be paid for by the Owner.
- 3.9 Perform measurement of all final as-built quantities.
- 3.10 Conduct a final inspection of project with the Contractor and Owner.
- 3.11 Prepare a final punch list of outstanding items needing completion prior to finalization of the project based on field observations and reviews by the Resident Project Representative, Contractor, and Owner.
- 3.12 Recommend to the Owner the acceptance of the project and complete the necessary certificate(s). This recommendation will be based on the Engineer's observation of construction utilizing professional judgment and accepted tests to determine that the Contractor has completed their contracts in substantial compliance with the plans, specifications and contract documents.

4 POST CONSTRUCTION PHASE

- 4.1 Prepare Report of Total Cost.
- 4.2 Assist the Owner during the 12-month warranty period with questions and coordination with the contractor for warranty period correction items.
- 4.3 Issue 6- and 11-month warranty letters to the Owner and Contractor. Conduct field reviews of project should a field inspection be necessary.
- 4.4 Issue a warranty period correction letter to the contractor for warranty repair items if necessary.

Exhibit A Scope of Services

5 RESIDENT PROJECT REPRESENTATION

- 5.1 JEO will furnish a part-time Resident Project Representative (RPR) to observe construction progress and quality of the work.
- a. Group A Work: Estimated at 50 hours.
 - b. Group B Work: Estimated at 8 hours.
 - c. Group C Work: Estimated at 8 hours.
- 5.2 The duties and responsibilities of the RPR are described as follows:
- a. Review of contractors work for general compliance with the plans and specifications.
 - b. Complete Construction Observation Reports when on site.
 - c. Coordinate pay quantities with contractor and engineer.
 - d. Review of materials delivered to the site for specification compliance.
 - e. Assist the engineer in interpretation of the plans and specifications to the contractor.
 - f. Review and coordinate materials testing by assigned testing firm.
 - g. Attend progress meetings.
 - h. Compile records for use in preparing record drawings.

6 FEE

6.1 The cost to provide the above-mentioned services for Design Phase, Bidding and Negotiation Phase, and Construction Phase Services is estimated at \$42,650.00.

6.2 Group A Work Tasks	Fee
a. Design Phase	\$18,000.00 (lump sum)
b. Bidding and Negotiation Phase*	\$ 2,200.00 (lump sum)
c. Construction Phase	\$ 4,000.00 (lump sum)
d. Post Construction Phase	\$ 800.00 (lump sum)
e. Resident Project Representation	<u>\$ 5,500.00 (hourly)</u>
Estimated Total	\$30,500.00

6.3 Group B Work Tasks	Fee
a. Design Phase	\$ 3,000.00 (lump sum)
b. Bidding and Negotiation Phase*	\$ 1,175.00 (lump sum)
c. Construction Phase	\$ 1,000.00 (lump sum)
d. Post Construction Phase	\$ 400.00 (lump sum)
e. Resident Project Representation	<u>\$ 900.00 (hourly)</u>
Estimated Total	\$ 6,475.00

6.4 Group C Work Tasks	Fee
a. Design Phase	\$ 2,200.00 (lump sum)
b. Bidding and Negotiation Phase*	\$ 1,175.00 (lump sum)
c. Construction Phase	\$ 1,000.00 (lump sum)
d. Post Construction Phase	\$ 400.00 (lump sum)
e. Resident Project Representation	<u>\$ 900.00 (hourly)</u>
Estimated Total	\$ 5,675.00

* Price could increase if any of the groups (Group A, Group B or Group C) are bid at different times than the others.

Exhibit A Scope of Services

7 PAYMENT:

- 7.1 We will invoice you monthly for work completed to date, payment is due upon receipt. Invoices unpaid after 30 days will accrue interest at 12% per annum (1.0%/month).

8 TIME FRAME:

- 8.1 Group A, B & C Work
- | | | |
|----|-------------------------------|---|
| a. | Design Phase | Dec. 16 th , 2019 to Feb. 7 th , 2020 |
| b. | Bidding and Negotiation Phase | Feb./March 2020 |
| c. | Construction Phase | Summer/Fall 2020 |
| d. | Post Construction Phase | 12 months after construction |

9 OWNER RESPONSIBILITY:

- 9.1 The Owner must provide the following information to the Engineer:
- a. Access to the project site.
 - b. Contact information for utility companies within the right-of-way along the project route.
 - c. Coordination with FEMA and NEMA, as needed.

10 EXCLUSIONS:

- 10.1 Storm sewer sizing and analysis
- 10.2 Geotechnical investigation of subsurface soils conditions
- 10.3 Land rights and ownership
- 10.4 Floodplain, Corps 404, or other environmental permitting, not noted above
- 10.5 SWPPP preparation, administration and inspections
- 10.6 Any permit fees associated with permit applications
- 10.7 Special meetings and meetings not outlined in the Scope of Services
- 10.8 Signing, marking, and traffic control plans
- 10.9 Street lighting
- 10.10 Utility reconstruction

JEO CONSULTING GROUP INC ■ JEO ARCHITECTURE INC

1. SCOPE OF SERVICES: JEO Consulting Group, Inc. (JEO) shall perform the services described in Exhibit A. JEO shall invoice the owner for these services at the fee stated in Exhibit A.

2. ADDITIONAL SERVICES: JEO can perform work beyond the scope of services, as additional services, for a negotiated fee or at fee schedule rates.

3. OWNER RESPONSIBILITIES: The owner shall provide all criteria and full information as to the owner's requirements for the project; designate and identify in writing a person to act with authority on the owner's behalf in respect to all aspects of the project; examine and respond promptly to JEO's submissions; and give prompt written notice to JEO whenever the owner observes or otherwise becomes aware of any defect in work.

Unless otherwise agreed, the owner shall furnish JEO with right-of-access to the site in order to conduct the scope of services. Unless otherwise agreed, the owner shall also secure all necessary permits, approvals, licenses, consents, and property descriptions necessary to the performance of the services hereunder. While JEO shall take reasonable precautions to minimize damage to the property, it is understood by the owner that in the normal course of work some damage may occur, the restoration of which is not a part of this agreement.

4. TIMES FOR RENDERING SERVICES: JEO's services and compensation under this agreement have been agreed to in anticipation of the orderly and continuous progress of the project through completion. Unless specific periods of time or specific dates for providing services are specified in the scope of services, JEO's obligation to render services hereunder shall be for a period which may reasonably be required for the completion of said services.

If specific periods of time for rendering services are set forth or specific dates by which services are to be completed are provided, and if such periods of time or date are changed through no fault of JEO, the rates and amounts of compensation provided for herein shall be subject to equitable adjustment. If the owner has requested changes in the scope, extent, or character of the project, the time of performance of JEO's services shall be adjusted equitably.

5. INVOICES: JEO shall submit invoices to the owner monthly for services provided to date and a final bill upon completion of services. Invoices are due and payable within 30 days of receipt. Invoices are considered past due after 30 days. Owner agrees to pay a finance charge on past due invoices at the rate of 1.0% per month, or the maximum rate of interest permitted by law.

If the owner fails to make any payment due to JEO for services and expenses within 30 days after receipt of JEO's statement, JEO may, after giving 7 days' written notice to the owner, suspend services to the owner under this agreement until JEO has been paid in full all amounts due for services, expenses, and charges.

6. STANDARD OF CARE: The standard of care for all services performed or furnished by JEO under the agreement shall be the care and skill ordinarily used by members of JEO's profession practicing under similar circumstances at the same time and in the

same locality. JEO makes no warranties, express or implied, under this agreement or otherwise, in connection with JEO's services.

JEO shall be responsible for the technical accuracy of its services and documents resulting therefrom, and the owner shall not be responsible for discovering deficiencies therein. JEO shall correct such deficiencies without additional compensation except to the extent such action is directly attributable to deficiencies in owner furnished information.

7. REUSE OF DOCUMENTS: Reuse of any materials (including in part plans, specifications, drawings, reports, designs, computations, computer programs, data, estimates, surveys, other work items, etc.) by the owner on a future extension of this project, or any other project without JEO's written authorization shall be at the owner's risk and the owner agrees to indemnify and hold harmless JEO from all claims, damages, and expenses including attorney's fees arising out of such unauthorized use.

8. ELECTRONIC FILES: Copies of Documents that may be relied upon by the owner are limited to the printed copies (also known as hard copies) that are signed or sealed by JEO. Files in electronic media format of text, data, graphics, or of other types that are furnished by JEO to the owner are only for convenience of the owner. Any conclusion or information obtained or derived from such electronic files shall be at the user's sole risk.

a. Because data stored in electronic media format can deteriorate or be modified inadvertently or otherwise without authorization of the data's creator, the party receiving electronic files agrees that it shall perform acceptance tests or procedures within 30 days, after which the receiving party shall be deemed to have accepted the data thus transferred. Any errors detected within the 30 day acceptance period shall be corrected by the party delivering the electronic files. JEO shall not be responsible to maintain documents stored in electronic media format after acceptance by the owner.

b. When transferring documents in electronic media format, JEO makes no representations as to long term compatibility, usability, or readability of documents resulting from the use of software application packages, operating systems, or computer hardware differing from those used by JEO at the beginning of the project.

c. The owner may make and retain copies of documents for information and reference in connection with use on the project by the owner.

d. If there is a discrepancy between the electronic files and the hard copies, the hard copies govern.

e. Any verification or adaptation of the documents by JEO for extensions of the project or for any other project shall entitle JEO to further compensation at rates to be agreed upon by the owner and JEO.

9. SUBCONSULTANTS: JEO may employ consultants as JEO deems necessary to assist in the performance of the services. JEO shall not be required to employ any consultant unacceptable to JEO.

10. INDEMNIFICATION: To the fullest extent permitted by law, JEO and the owner shall indemnify and hold each other harmless and their respective officers, directors, partners, employees, and consultants from and against any and all claims, losses, damages, and expenses (including but not limited to all fees and charges of

JEO CONSULTING GROUP INC ■ JEO ARCHITECTURE INC

engineers, architects, attorneys, and other professionals, and all court or arbitration or other dispute resolution costs) to the extent such claims, losses, damages, or expenses are caused by the indemnifying parties' negligent acts, errors, or omissions. In the event claims, losses, damages, or expenses are caused by the joint or concurrent negligence of JEO and the owner, they shall be borne by each party in proportion to its negligence.

11. INSURANCE: JEO shall procure and maintain the following insurance during the performance of services under this agreement:

- a. Workers' Compensation: Statutory
- b. Employer's Liability
 - i. Each Accident: \$500,000
 - ii. Disease, Policy Limit: \$500,000
 - iii. Disease, Each Employee: \$500,000
- c. General Liability
 - i. Each Occurrence (Bodily Injury and Property Damage): \$1,000,000
 - ii. General Aggregate: \$2,000,000
- d. Auto Liability
 - i. Combined Single: \$1,000,000
- e. Excess or Umbrella Liability
 - i. Each Occurrence: \$1,000,000
 - ii. General Aggregate: \$1,000,000
- f. Professional Liability:
 - i. Each Occurrence: \$1,000,000
 - ii. General Aggregate: \$2,000,000

g. All policies of property insurance shall contain provisions to the effect that JEO and JEO's consultants' interests are covered and that in the event of payment of any loss or damage the insurers shall have no rights of recovery against any of the insureds or additional insureds thereunder.

h. The owner shall require the contractor to purchase and maintain general liability and other insurance as specified in the Contract Documents and to cause JEO and JEO's consultants to be listed as additional insured with respect to such liability and other insurance purchased and maintained by the contractor for the project.

i. The owner shall reimburse JEO for any additional limits or coverages that the owner requires for the project.

12. TERMINATION: This agreement may be terminated by either party upon 7 days prior written notice. In the event of termination, JEO shall be compensated by owner for all services performed up to and including the termination date. The effective date of termination may be set up to thirty (30) days later than otherwise provided to allow JEO to demobilize personnel and equipment from the site, to complete tasks whose value would otherwise be lost, to prepare notes as to the status of completed and uncompleted tasks, and to assemble project materials in orderly files.

13. GOVERNING LAW: This agreement is to be governed by the law of the state in which the project is located.

14. SUCCESSORS, ASSIGNS, AND BENEFICIARIES: The owner and JEO each is hereby bound and the partners, successors, executors, administrators and legal representatives of the owner and JEO are hereby bound to the other party to this agreement and to the partners, successors, executors, administrators and legal representatives (and said assigns) of such other party, with respect to all covenants, agreements and obligations of this agreement.

a. Neither the owner nor JEO may assign, sublet, or transfer any rights under or interest (including, but without limitation, monies that are due or may become due) in this agreement without the written consent of the other, except to the extent that any assignment, subletting, or transfer is mandated or restricted by law. Unless specifically stated to the contrary in any written consent to an assignment, no assignment shall release or discharge the assignor from any duty or responsibility under this agreement.

b. Unless expressly provided otherwise in this agreement: Nothing in this agreement shall be construed to create, impose, or give rise to any duty owed by the owner or JEO to any contractor, contractor's subcontractor, supplier, other individual or entity, or to any surety for or employee of any of them.

c. All duties and responsibilities undertaken pursuant to this agreement shall be for the sole and exclusive benefit of the owner and JEO and not for the benefit of any other party.

15. PRECEDENCE: These standards, terms, and conditions shall take precedence over any inconsistent or contradictory language contained in any proposal, contract, purchase order, requisition, notice to proceed, or like document regarding JEO's services.

16. SEVERABILITY: Any provision or part of the agreement held to be void or unenforceable shall be deemed stricken, and all remaining provisions shall continue to be valid and binding upon the owner and JEO, who agree that the agreement shall be reformed to replace such stricken provision or part thereof with a valid and enforceable provision that comes as close as possible to expressing the intention of the stricken provision.

17. NON-DISCRIMINATION CLAUSE: Pursuant to Neb. Rev. Stat. § 73-102, the parties declare, promise, and warrant that they have and will continue to comply fully with Title VI of the Civil Rights Act of 1964, as amended (42 U.S.C.A § 1985, et seq.) and the Nebraska Fair Employment Practice Act, Neb. Rev. Stat. § 48-1101, et seq., in that there shall be no discrimination against any employee who is employed in the performance of this agreement, or against any applicant for such employment, because of age, color, national origin, race, religion, creed, disability or sex.

18. E-VERIFY: JEO shall register with and use the E-Verify Program, or an equivalent federal program designated by the United States Department of Homeland Security or other federal agency authorized to verify the work eligibility status of a newly hired employee pursuant to the Immigration Reform and Control Act of 1986, to determine the work eligibility status of new employees physically performing services within the state where the work shall be performed. Engineer shall require the same of each consultant.

Village of Waterloo, Douglas County
2019 Flood Damage Repairs



JEO PROJECT NO.
BUDGETARY OPINION OF PROBABLE CONSTRUCTION COST

Asset	Cost for each Road									
	Construction Subtotal	Contingency	Construction Cost	Overhead (engineering, legal, etc.)	Total Project Cost	FEMA	NEMA	Village Cost		
North Front Street	\$23,406	\$3,511	\$26,917	\$9,000	\$35,917	\$26,938	\$4,490	\$4,490		
7th Street	\$13,957	\$2,094	\$16,051	\$5,000	\$35,917	\$26,938	\$4,490	\$4,490		
240th Street	\$31,975	\$4,796	\$36,771	\$12,000	\$48,771	\$36,578	\$6,096	\$6,096		
Madison Street	\$9,071	\$1,361	\$10,432	\$4,000	\$14,432	\$10,824	\$1,804	\$1,804		
River Road	\$6,165	\$925	\$7,090	\$3,000	\$10,090	\$7,567	\$1,261	\$1,261		
South Front Street	\$41,567	\$6,235	\$47,802	\$10,000	\$57,802	\$43,352	\$7,225	\$7,225		
Storm Sewer/Agee	\$6,374	\$956	\$7,330	\$6,500	\$13,830	\$10,372	\$1,729	\$1,729		
Ditch Clean Out	\$7,283	\$1,093	\$8,376	\$5,500	\$13,876	\$10,407	\$1,734	\$1,734		
Totals			\$230,635	\$172,976	\$28,829	\$28,829	\$28,829	\$28,829.38		

Estimated Administration Reimbursement \$11,531.75

Village of Waterloo
 2019 Flood Damage Repairs
 North Front Street, north of 7th Street
 JEO PROJECT NO. 190407



0% CONCEPTUAL OPINION OF PROBABLE CONSTRUCTION COST

ESTIMATED QUANTITIES					
GROUP A - Retore to pre-storm conditions					
ITEM NO.	ITEM	QUANTITY	UNIT	UNIT COST	ESTIMATED COST
1	Mobilization	1	LS	\$ 400.00	\$400.00
2	Temporary Traffic Control	1	LS	\$ 1,500.00	\$1,500.00
3	Seeding, Fertilizer and Mulch	1	LS	\$ 2,000.00	\$2,000.00
4	Pavement Removal	146	SY	\$ 10.00	\$1,456.11
5	Cold Milling		SY	\$ 3.00	\$0.00
6	7" Class 47B-3500 Concrete for Pavement Patching	146	SY	\$ 70.00	\$10,192.78
7	Asphaltic Concrete		TONS	\$ 100.00	\$0.00
8	Tack Coat		Gal	\$ 2.50	\$0.00
9	Subgrade Preparation	146	SY	\$ 4.00	\$582.44
10	7" Concrete, 47B-3500 Pavement for Intersection		SY	\$ 60.00	\$0.00
11	Shoulder Grading	485	LF	\$ 15.00	\$7,275.00
12					\$0.00
13					\$0.00
CONSTRUCTION SUBTOTAL:					\$23,406.33
Contingencies 15%					\$3,510.95
TOTAL PROJECT CONSTRUCTION COST:					\$26,917.28
Engineering and Testing					\$ 9,000.00
TOTAL PROJECT COST:					\$35,917.28

Note:

DAMAGE: Edge deterioration due to soft soils and heavy trucks using it as a detour for closed highways.

Site #	Location	Length (ft)	Width (ft)	Area (SY)
1	between 4th and 6th	144	2	32.0
2	SW corner of N front and 7th	15	4	3.3
3	SE corner of N front and 7th	29	7	11.3
4	between 7th and old School Driveway	114	3	38.0
5	between 7th and old School Driveway	30	3	10.0
6	between 7th and old School Driveway	71	3	23.7
7	between 7th and old School Driveway	38	3	12.7
8	between 7th and old School Driveway	44	3	14.7

REPAIRS: Full depth pavement removal of damaged area and to replace with concrete patch.

Village of Waterloo
 2019 Flood Damage Repairs
 South Front Street at 1st Street Intersection
 JEO PROJECT NO. 190407
 0% CONCEPTUAL OPINION OF PROBABLE CONSTRUCTION COST



ESTIMATED QUANTITIES					
GROUP A - Retore to pre-storm conditions					
ITEM NO.	ITEM	QUANTITY	UNIT	UNIT COST	ESTIMATED COST
1	Mobilization	1	LS	\$ 200.00	\$200.00
2	Temporary Traffic Control	1	LS	\$ 1,500.00	\$1,500.00
3	Seeding, Fertilizer and Mulch	-	LS	\$ 2,000.00	\$0.00
4	Pavement Removal	112	SY	\$ 10.00	\$1,121.67
5	Cold Milling		SY	\$ 3.00	\$0.00
6	7" Class 47B-3500 Concrete for Pavement Patching	112	SY	\$ 70.00	\$7,851.67
7	Asphaltic Concrete		TONS	\$ 100.00	\$0.00
8	Tack Coat		Gal	\$ 2.50	\$0.00
9	Subgrade Preparation	112	SY	\$ 4.00	\$448.67
10	7" Concrete, 47B-3500 Pavement for Intersection		SY	\$ 60.00	\$0.00
11	Shoulder Grading	189	LF	\$ 15.00	\$2,835.00
12	Flume Clean out		LS	\$ 1,000.00	\$0.00
13					\$0.00
CONSTRUCTION SUBTOTAL:					\$13,957.00
Contingencies				15%	\$2,093.55
TOTAL PROJECT CONSTRUCTION COST:					\$16,050.55
Engineering and Testing				\$	5,000.00
TOTAL PROJECT COST:					\$21,050.55

Note:

DAMAGE: Edge deterioration due to soft soils and heavy trucks using it as a detour for closed highways.

Site #	Location	Length (ft)	Width (ft)	Area (SY)	
1	In front of Fire Station	29	5	16.1	
2	In front of Fire Station	9	7	7.0	
3	In front of Fire Station	78	7	60.7	
4	In front of Fire Station	30	7	11.7	
5	In front of Fire Station	43	7	16.7	
				0.0	
				0.0	

REPAIRS: Full depth pavement removal of damaged area and to replace with concrete patch.

Village of Waterloo
 2019 Flood Damage Repairs
 240th Street at 7th Street Intersection & north of Cedar Street
 JEO PROJECT NO. 190407
 0% CONCEPTUAL OPINION OF PROBABLE CONSTRUCTION COST



ESTIMATED QUANTITIES					
GROUP A - Retore to pre-storm conditions					
ITEM NO.	ITEM	QUANTITY	UNIT	UNIT COST	ESTIMATED COST
1	Mobilization	1	LS	\$ 500.00	\$500.00
2	Temporary Traffic Control	1	LS	\$ 1,500.00	\$1,500.00
3	Seeding, Fertilizer and Mulch	1	LS	\$ 2,000.00	\$2,000.00
4	Pavement Removal	241	SY	\$ 10.00	\$2,408.89
5	Cold Milling		SY	\$ 3.00	\$0.00
6	7" Class 47B-3500 Concrete for Pavement Patching	241	SY	\$ 70.00	\$16,862.22
7	Asphaltic Concrete		TONS	\$ 100.00	\$0.00
8	Tack Coat		Gal	\$ 2.50	\$0.00
9	Subgrade Preparation	241	SY	\$ 4.00	\$963.56
10	7" Concrete, 47B-3500 Pavement for Intersection		SY	\$ 60.00	\$0.00
11	Shoulder Grading	516	LF	\$ 15.00	\$7,740.00
12					\$0.00
13					\$0.00
CONSTRUCTION SUBTOTAL:					\$31,974.67
Contingencies 15%					\$4,796.20
TOTAL PROJECT CONSTRUCTION COST:					\$36,770.87
Engineering and Testing					\$ 12,000.00
TOTAL PROJECT COST:					\$48,770.87

Note:

DAMAGE: Edge deterioration due to soft soils and heavy trucks using it as a detour for closed highways.

Site #	Location	Length (ft)	Width (ft)	Area (SY)	
1	at Madison Intersection	4		5	2.2
2	at Madison Intersection	68		12	90.7
3	between Madison and Cedar Drive	278		3	92.7
4	between Madison and Cedar Drive	166		3	55.3
5					0.0
6					0.0
7					0.0
8					0.0

REPAIRS: Full depth pavement removal of damaged area and to replace with concrete patch.

Village of Waterloo
 2019 Flood Damage Repairs
 Intersection of 3rd and Madison Street & Madison and Cedar Streets
 JEO PROJECT NO. 190407
 0% CONCEPTUAL OPINION OF PROBABLE CONSTRUCTION COST



ESTIMATED QUANTITIES

GROUP A - Retore to pre-storm conditions

ITEM NO.	ITEM	QUANTITY	UNIT	UNIT COST	ESTIMATED COST
1	Mobilization	1	LS	\$ 200.00	\$200.00
2	Temporary Traffic Control	1	LS	\$ 1,500.00	\$1,500.00
3	Seeding, Fertilizer and Mulch	-	LS	\$ 2,000.00	\$0.00
4	Pavement Removal	59	SY	\$ 10.00	\$591.11
5	Cold Milling	113	SY	\$ 3.00	\$339.33
6	7" Class 47B-3500 Concrete for Pavement Patching	59	SY	\$ 70.00	\$4,137.78
7	Asphaltic Concrete	20	TONS	\$ 100.00	\$1,980.56
8	Tack Coat	34	Gal	\$ 2.50	\$86.11
9	Subgrade Preparation	59	SY	\$ 4.00	\$236.44
10	7" Concrete, 47B-3500 Pavement for Intersection		SY	\$ 60.00	\$0.00
11	Shoulder Grading	-	LF	\$ 15.00	\$0.00
12					\$0.00
13					\$0.00
CONSTRUCTION SUBTOTAL:					\$9,071.33
				Contingencies 15%	\$1,360.70
TOTAL PROJECT CONSTRUCTION COST:					\$10,432.03
				Engineering and Testing	\$ 4,000.00
TOTAL PROJECT COST:					\$14,432.03

Could rebuild the intersection at 3rd and Madison in full (instead of two patches)
 Area to be repaved would be 75 feet long by 25 feet wide (use existing curbs in place)
 Est cost at 7" thick = \$15,417
 Current repair costs for this area = \$5,586

Note:					
DAMAGE: Edge deterioration due to soft soils and heavy trucks using it as a detour for closed highways.					
Site #	Location	Length (ft)	Width (ft)	Area (SY)	
1	Patch at intersection with Cedar Stret	40		4	17.8
2	Patch at intersection with 3rd Street	62		3	20.7
3	Patch at intersection with 3rd Street	62		3	20.7
4	Overlay of intersection with 3rd Street	25		62	172.2
5					0.0
6					0.0
7					0.0
8					0.0
REPAIRS: Full depth pavement removal of damaged area and to replace with concrete patch.					

Village of Waterloo
 2019 Flood Damage Repairs
 River Road between Denton and Blondo Streets
 JEO PROJECT NO. 190407



0% CONCEPTUAL OPINION OF PROBABLE CONSTRUCTION COST

ESTIMATED QUANTITIES					
GROUP A - Retore to pre-storm conditions					
ITEM NO.	ITEM	QUANTITY	UNIT	UNIT COST	ESTIMATED COST
1	Mobilization	1	LS	\$ 300.00	\$300.00
2	Temporary Traffic Control	1	LS	\$ 1,500.00	\$1,500.00
3	Seeding, Fertilizer and Mulch	1	LS	\$ 2,000.00	\$2,000.00
4	Pavement Removal	18	SY	\$ 10.00	\$183.33
5	Cold Milling		SY	\$ 3.00	\$0.00
6	7" Class 47B-3500 Concrete for Pavement Patching	18	SY	\$ 70.00	\$1,283.33
7	Asphaltic Concrete		TONS	\$ 100.00	\$0.00
8	Tack Coat		Gal	\$ 2.50	\$0.00
9	Subgrade Preparation	18	SY	\$ 4.00	\$73.33
10	7" Concrete, 47B-3500 Pavement for Intersection		SY	\$ 60.00	\$0.00
11	Shoulder Grading	55	LF	\$ 15.00	\$825.00
12					\$0.00
13					\$0.00
CONSTRUCTION SUBTOTAL:					\$6,165.00
Contingencies 15%					\$924.75
TOTAL PROJECT CONSTRUCTION COST:					\$7,089.75
Engineering and Testing					\$ 3,000.00
TOTAL PROJECT COST:					\$10,089.75

Note:

DAMAGE: Edge deterioration due to soft soils and heavy trucks using it as a detour for closed highways.

Site #	Location	Length (ft)	Width (ft)	Area (SY)
1		55	3	18.3
2				0.0
3				0.0
4				0.0
5				0.0
6				0.0
7				0.0
8				0.0

RÉPAIRS: Full depth pavement removal of damaged area and to replace with concrete patch.

Village of Waterloo
 2019 Flood Damage Repairs
 South Front Street, between 6th and 7th Streets
 JEO PROJECT NO. 190407
 0% CONCEPTUAL OPINION OF PROBABLE CONSTRUCTION COST



ESTIMATED QUANTITIES					
GROUP A - Retore to pre-storm conditions					
ITEM NO.	ITEM	QUANTITY	UNIT	UNIT COST	ESTIMATED COST
1	Mobilization	1	LS	\$ 300.00	\$300.00
2	Temporary Traffic Control	1	LS	\$ 1,500.00	\$1,500.00
3	Seeding, Fertilizer and Mulch	-	LS	\$ 2,000.00	\$0.00
4	Pavement Removal	283	SY	\$ 10.00	\$2,829.44
5	Cold Milling		SY	\$ 3.00	\$0.00
6	7" Class 47B-3500 Concrete for Pavement Patching	283	SY	\$ 70.00	\$19,806.11
7	Asphaltic Concrete		TONS	\$ 100.00	\$0.00
8	Tack Coat		Gal	\$ 2.50	\$0.00
9	Subgrade Preparation	283	SY	\$ 4.00	\$1,131.78
10	7" Concrete, 47B-3500 Pavement for Intersection		SY	\$ 60.00	\$0.00
11	Shoulder Grading	-	LF	\$ 15.00	\$0.00
12	Ditch Clean out	1	LS	\$ 1,000.00	\$1,000.00
13					\$0.00
CONSTRUCTION SUBTOTAL:					\$26,567.33
1	Extra Concrete Work	1	LS	\$ 15,000.00	\$15,000.00
CONSTRUCTION SUBTOTAL:					\$41,567.33
				Contingencies 15%	\$6,235.10
TOTAL PROJECT CONSTRUCTION COST:					\$47,802.43
Engineering and Testing					\$ 10,000.00
TOTAL PROJECT COST:					\$57,802.43

Note:					
DAMAGE: Edge deterioration due to soft soils and heavy trucks using it as a detour for closed highways.					
Site #	Location	Length (ft)	Width (ft)	Area (SY)	
1	at 1st Street Intersection	37	18	74.0	
2		18	16	32.0	
3	flume at 1st Street	6	5	3.3	
4a	between 6th and 7th Street	25	25	69.4	
4b		75	12.5	104.2	
6				0.0	
7				0.0	
8				0.0	
REPAIRS: Full depth pavement removal of damaged area and to replace with concrete patch.					

Village of Waterloo
 2019 Flood Damage Repairs
 Storm Sewer Repair, Agee Lane
 JEO PROJECT NO. 190407



0% CONCEPTUAL OPINION OF PROBABLE CONSTRUCTION COST

ESTIMATED QUANTITIES					
GROUP A - Retore to pre-storm conditions					
ITEM NO.	ITEM	QUANTITY	UNIT	UNIT COST	ESTIMATED COST
1	Mobilization	1	LS	\$ 900.00	\$900.00
2	Temporary Traffic Control	1	LS	\$ 1,000.00	\$1,000.00
3	Sodding	1	LS	\$ 2,000.00	\$2,000.00
4	Backfill of eroded area (Embankment)	57	CY	\$ 15.00	\$853.50
5	Remove culvert pipe	32	LF	\$ 15.00	\$480.00
6	Reinstallation of culvert pipe	32	LF	\$ 20.00	\$640.00
7	Concrete Collar	1	Ea	\$ 500.00	\$500.00
8					\$0.00
9					\$0.00
10					\$0.00
11					\$0.00
12					\$0.00
13					\$0.00
CONSTRUCTION SUBTOTAL:					\$6,373.50
Contingencies				15%	\$956.03
TOTAL PROJECT CONSTRUCTION COST:					\$7,329.53
Engineering and Testing					\$ 6,500.00
TOTAL PROJECT COST:					\$13,829.53

Note:

DAMAGE: ground water raise causing soils to saturate and when water recided, erosion caused pipe collapse into hole

Site #	Location	Length (ft)	Width (ft)	Area (SY)
1				0.0
2				0.0
3				0.0
4				0.0
5				0.0
6				0.0
7				0.0
8				0.0

REPAIRS: Fill erosion hole and reset pipe, use concrete collar to connect to exsting (undamaged pipe), reseed area. The estimate plans to reuse pipe as the sections did not appear damaged at the time of inspseciton. If they are found to be damaged, new sections would be required and the rpice would increase for the work. 18" RCP is general \$50 to \$60 per foot for a new pipe installed.

Village of Waterloo
 2019 Flood Damage Repairs
 Ditch Cleanout
 JEO PROJECT NO. 190407
 0% CONCEPTUAL OPINION OF PROBABLE CONSTRUCTION COST



ESTIMATED QUANTITIES

GROUP A - Retore to pre-storm conditions

ITEM NO.	ITEM	QUANTITY	UNIT	UNIT COST	ESTIMATED COST
1	Mobilization	1	LS	\$ 1,200.00	\$1,200.00
2	Temporary Traffic Control	1	LS	\$ 1,000.00	\$1,000.00
3	Seeding, Fertilizer and Mulch	1	LS	\$ 3,000.00	\$3,000.00
4	Excavation	167	CY	\$ 12.50	\$2,083.33
5					\$0.00
6					\$0.00
7					\$0.00
8					\$0.00
9					\$0.00
10					\$0.00
11					\$0.00
12					\$0.00
13					\$0.00
CONSTRUCTION SUBTOTAL:					\$7,283.33
				Contingencies 15%	\$1,092.50
TOTAL PROJECT CONSTRUCTION COST:					\$8,375.83
				Engineering and Testing \$	5,500.00
TOTAL PROJECT COST:					\$13,875.83

Note:

DAMAGE: sediment accumulation and debris in ditch causing backups.

Site #	Location	Length (ft)	Width (ft)	Area (SY)
1				0.0
2				0.0
3				0.0
4				0.0
5				0.0
6				0.0
7				0.0
8				0.0

REPAIRS: Clean out ditch so that flow is re-established per original designs.