

PROFESSIONAL SERVICES AGREEMENT

This Agreement is made and entered into on the 5th day of September 2023, between the **CITY OF SHAKOPEE**, 485 Gorman Street, Shakopee, MN 55379 ("City") and **SRF CONSULTING GROUP, INC.**, 3701 Wayzata Blvd Suite 100, Minneapolis, MN 55416 ("Consultant").

Preliminary Statement

The purpose of this Agreement is to set forth terms and conditions for the provision of professional services by the Consultant for the City for the following described Project:

Marystown Road Corridor Improvements

The City and Consultant agree as follows:

1. **Consultant's Services.** The Consultant agrees to provide professional services as described in Exhibit A, Scope of Work and any addenda thereto. The Consultant shall serve as the City's professional consultant in the specified work and shall provide consultation and advice to the City during the performance of its services. The Consultant agrees to use the City's standard specifications in any bidding documents prepared under this Agreement. The requirements of this section may be waived by the City if the City Engineer determines that they are not necessary for the successful completion of the project. A Consultant requesting a requirement to be waived must have written authorization from the City Engineer and must be incorporated into this agreement.
2. **Time for Performance of Services.** The Consultant will endeavor to perform the services outlined in the work program within the prescribed days from the date of the contract award. Any changes in this schedule must be approved in writing by the City.
3. **Term.** The term of this Agreement will be from September 5, 2023, through December 31, 2025, the date of signature by the parties notwithstanding. This Agreement may be extended upon the written mutual consent of the parties for such additional period as they deem appropriate, and upon the terms and conditions as herein stated.
4. **Compensation for Services.** City agrees to pay the Consultant for services as described in Exhibit A, attached and made a part of this Agreement, which may be amended from time to time by mutual agreement by City and Consultant. The Consultant's hourly rates must be based on the hourly rates approved by the City.

The Agreement amount shall include all services to be rendered by the Consultant as part of this Agreement (including all travel, living and overhead expenses incurred by the Consultant in connection with performing the services herein) except for special services authorized in writing by the City. The amount stipulated shall be considered a "Not to Exceed" cost to the City.

The Consultant must keep track of the costs billable under this contract at all times; any work in excess of the negotiated amount shall not be eligible for payment unless preapproved. The Consultant must notify the City if the Consultant anticipates that the negotiated amount might be exceeded, in order to determine whether or not the City is prepared to increase the compensation. This notification and approval must occur in advance of the work occurring to be considered for compensation.

5. **Payment of Fees.** The Consultant must submit itemized bills for services provided to the City on a monthly basis. The monthly billing must summarize the progress of the project as certified by the Consultant. For work reimbursed on an hourly basis, the Consultant must indicate for each employee, his or her classification, the number of hours worked, rate of pay for each employee, a computation of amounts due for each employee, the total amount due, the original contracted amount, the current requested amount, and the total amount. Consultant must verify all statements submitted for payment in compliance with Minnesota Statutes Sections 471.38 and 471.931. For reimbursable expenses, the Consultant must provide such documentation as reasonably required by the City. Consultant bills submitted will be paid in the same manner as other claims made to the City.
6. **Audit Disclosure.** The Consultant must allow the City or its duly authorized agents reasonable access to such of the Consultant's books and records as are pertinent to all services provided under this Agreement.

Any reports, information, data, etc. given to, or prepared or assembled by the Consultant under this Agreement which the City requests to be kept confidential must not be made available to any individual or organization without the City's prior written approval. All finished or unfinished documents, data, studies, surveys, drawings, maps, models, photographs, and reports prepared by the Consultant will become the property of the City upon termination of this Agreement, but Consultant may retain copies of such documents as records of the services provided and may reuse standard portions of such documents in the normal course of its business.

7. **Termination.** Termination for Cause. This Agreement may be terminated by City by seven day's written notice to Consultant delivered to the address written above. Upon termination under this provision, the Consultant will be paid for services rendered and reimbursable expenses until the effective date of termination.

If, through any cause (except those reasonably beyond Consultant's control), the Consultant shall fail to fulfill in timely and proper manner its obligations under this Contract, or if the Consultant shall violate any of the covenants, agreements, or stipulation of this Contract, the City shall thereupon have the right to terminate this Contract by giving written notice to the Consultant of such termination and specifying the effective date thereof, at least five (5) days before the effective date of termination. In that event the Consultant shall have sixty (60) days to furnish all finished or unfinished documents, computer programs, data, studies, surveys, drawings, maps, models, photographs, and reports or other material prepared by the Consultant under this Contract, which shall, at the option of the City, become its property, and the Consultant shall be entitled to receive just, equitable compensation for any satisfactory work completed on such documents and other materials prior to the effective date of termination.

Notwithstanding the above, the Consultant shall not be relieved of liability to the City for damages sustained by the City by virtue of any breach of the Contract by the Consultant, and the City may withhold any payments to the Consultant for the purpose of setoff until such time as the exact amount of damages due the City from the Consultant is determined.

In the event this Contract is terminated for cause, then the City may take over and complete the work, by contract or otherwise, and the Consultant and its sureties shall be liable to the City for any costs over the amount of this contract thereby occasioned by the City. In any such case the City may take possession of, and utilize in completing the work, such materials, appliances and structures as may be on the work site and are necessary for completion of the work. The foregoing provisions are in addition to, and not in limitation of, any other rights which the City may have.

Termination Not For Cause. The City may terminate this Contract at any time, with or without cause, by giving written notice to the Consultant of such termination and specifying the effective date thereof, at least fifteen (15) days before the effective date of such termination. In that event, the Consultant shall have sixty (60) days to furnish all finished or unfinished documents, computer programs, data, studies, surveys, drawings, maps, models, photographs, and reports or other material prepared by the Consultant under this Contract, which shall, at the option of the City, become its property. If the Contract is terminated by the City as provided in this paragraph, the Consultant will be paid an amount which bears the same ratio to the total compensation as the services actually performed bear to the total services of the Consultant covered by this Contract, less payments or compensation previously made.

8. **Subcontractor.** The Consultant must not enter into subcontracts for any of the services provided for in this Agreement without the express written consent of the City.
9. **Independent Contractor.** At all times and for all purposes hereunder, the Consultant is an independent contractor and not an employee of the City. No statement herein shall be construed so as to find the Consultant an employee of the City.
10. **Assignment.** Neither party will assign this Agreement, nor any interest arising herein, without the written consent of the other party.
11. **Services not Provided for.** No claim for services furnished by the Consultant not specifically provided for herein will be honored by the City.
12. **Severability.** The provisions of this Agreement are severable. If any portion hereof is, for any reason, held by a court of competent jurisdiction to be contrary to law, such decision will not affect the remaining provisions of the Agreement.
13. **Entire Agreement.** The entire agreement of the parties is contained herein. This Agreement supersedes all oral agreements and negotiations between the parties relating to the subject matter hereof as well as any previous agreements presently in effect between the parties relating to the subject matter hereof. Any alterations, amendments, deletions, or waivers of the provisions of this Agreement will be valid only when expressed in writing and duly signed by the parties unless otherwise provided herein.
14. **Compliance with Laws and Regulations.** In providing services hereunder, the Consultant must abide by all statutes, ordinances, rules and regulations pertaining to the provision of services to be provided. Any violation will constitute a material breach of this Agreement and entitle the City to immediately terminate this Agreement.
15. **Equal Opportunity.** During the performance of this contract, the Consultant must not discriminate against any employee or applicant for employment because of race, color, creed, religion, national origin, sex, marital status, status with regard to public assistance, disability, or age. The Consultant must post in places available to employees and applicants for employment, notices setting forth the provisions of this non-discrimination clause and stating that all qualified applicants will receive consideration for employment. The Consultant must incorporate the foregoing requirements of this paragraph in all of its subcontracts for program work, and will require all of its subcontractors for such work to incorporate such requirements in all subcontracts for program work.

16. **Waiver.** Any waiver by either party of a breach of any provisions of this Agreement will not affect, in any respect, the validity of the remainder of this Agreement.
17. **Liability and Indemnity.** The Consultant must indemnify and hold harmless the City, its employees and agents, for all claims, damages, losses, and expenses, including, but not limited to, attorney's fees, which they may suffer or for which they may be held liable, as a result of, and to the extent of, the negligent or wrongful acts of the Consultant, his employees, or anyone else for whom he is legally responsible in the performance of this Agreement.

The Consultant assumes full responsibility for relations with its subcontractors, and must hold the City harmless and must defend and indemnify the City, its employees and agents, for any claims, damages, losses, and expenses in any manner caused by such subcontractors, arising out of or connected with this contract.

18. **Insurance.** During the term of this Agreement, Consultant must procure and maintain during the life of this Contract, and provide the City with a certificate of insurance showing, the following coverage for each occurrence and in aggregate:
 - A. Comprehensive General Liability Insurance, including Broad Form Property Damage, Completed Operations and Contractual Liability for limits not less than \$1,500,000 each occurrence for damages of bodily injury or death to one or more persons and \$1,500,000 each occurrence for damage to or destruction of property.
 - B. Insurance coverage for Special Hazards, including but not limited to explosion hazard, collapse hazard, underground property damage hazard, (commonly known as XCU).
 - C. Comprehensive Automobile Liability Insurance, in an amount not less than \$1,500,000 for each occurrence. Coverage shall include all owned autos, non-owned autos, and hired autos.
 - D. Errors and Omissions Insurance against errors and omissions resulting from the performance of Consultant's work under this Agreement. Said coverage shall be in an amount not less than \$2,000,000.
 - E. Workmen's Compensation insurance for all its employees as required by the Minnesota Worker's Compensation Act.

F. The City of Shakopee must be named as "ADDITIONALLY INSURED" on the insurance described in paragraphs A, B, and C, and must receive notice ten (10) days prior to the cancellation or expiration any of the specified insurance. If the deductible provisions of the Consultant's coverage or any subcontractor's coverage is questioned by the City, the Consultant shall provide the City, upon request, "Proof of Assets".

This policy must provide, as between the City and the Consultant, that the Consultant's coverage shall be the primary coverage in the event of a loss. If the Consultant is providing either architectural or engineering services, the Consultant must also maintain during the term of this Agreement a professional liability insurance policy with the same limits as for general liability. A certificate of insurance on the City's approved form which verifies the existence of these insurance coverages must be provided to the City before work under this Agreement is begun.

19. **Governing Law.** This Agreement will be controlled by the laws of the State of Minnesota.
20. **Whole Agreement.** This Agreement embodies the entire agreement between the parties including all prior understanding and agreements, and may not be modified except in writing signed by all parties.

Executed as of the day and year first written above.

CITY OF SHAKOPEE

SRF Consulting Group, INC.

By: _____
Matt Lehman, Mayor

Date: _____

By: _____
William H. Reynolds, City Administrator

Date: _____

By:  _____
Paul Martens

Its: _____ CFO

Date: August 29, 2023



MARYSTOWN ROAD CORRIDOR IMPROVEMENTS

CITY OF SHAKOPEE

PROJECT NO. CIF-23-004



In Partnership With:
American Engineering Testing, Inc



3701 Wayzata Boulevard, Suite 100
Minneapolis, MN 55416
763.475.0010
www.srfconsulting.com

August 18, 2023

Alex Jordan, City Engineer
City of Shakopee
485 Gorman Street
Shakopee, Minnesota 55379

SUBJECT: MARYSTOWN ROAD CORRIDOR IMPROVEMENTS – 17TH AVENUE TO 12TH AVENUE

Dear Alex Jordan and Members of the Selection Committee:

Thank you for inviting SRF Consulting Group to submit our proposal to provide engineering services for the Marystown Road Corridor Improvements from 17th Avenue to 12th Avenue at Trunk Highway-169. Over the past five years, SRF has been honored to collaborate with the City of Shakopee to study the corridor, develop concept layout documents and ICE Reports, and assist the City with successful grant applications. We are ready and eager to continue our work with the City of Shakopee to see this project to successful completion.

The Marystown Road Corridor is a busy thoroughfare connecting Downtown Shakopee, Trunk Highway 169, new development, retail, community parks, existing trail systems, and Jackson Township. This region continues to see development and growth, and the reconstruction will improve vehicular and pedestrian safety, add traffic control, and address access control deficiencies for the growing area.

Project Director **Michael Turner, PE**, will provide oversight for our team. His experience working with Shakopee, Scott County, and MnDOT, and his understanding of what it takes to deliver a locally-led interchange project will lead to the project's success. Mike will work closely with Project Manager **Brandon Maas, PE**, who will lead the project team. He will be supported by our Traffic Analysis Lead **Brent Clark, PE**, who brings his previous experience working on the traffic analysis and concept studies for this project to the team. They will be supported by an experienced team of problem-solvers to complete the preliminary and final design, environmental documentation, bridge rehabilitation, and public engagement. Our team's ability to balance project goals and the desires of the City of Shakopee and its stakeholders through the regulatory approval process while simultaneously building public support is a true talent.

We believe this exceptional team has the experience that will deliver the best value to the City of Shakopee by providing the following:

Unparalleled Project Understanding | SRF's partnership with Shakopee on the development of the Corridor Layout, traffic studies, and grant applications for this project provides our team with a thorough understanding of the project. In addition to working with the City, we have met with Scott County and MnDOT to understand their needs and requirements as the project intersects state and county roadways. SRF is the only team with the depth of knowledge of this corridor, and we are the most prepared to start day one to get the job done right.

Experience in the Complexities | The SRF team has committed and experienced staff specializing in all aspects of MnDOT interchange design projects and the interaction of those interchange improvements with local system improvements. As demonstrated in the experience section of this proposal, SRF has completed a wide variety of roadway corridor improvement projects at interchanges with the Trunk Highway and Interstate Systems and fully understand the requirements that will be driven by the MnDOT Process. SRF is also a recognized leader in roundabout analysis, development, and design. We have completed over 100 roundabout projects for counties, cities, and state Departments of Transportation. Our team will bring this experience and knowledge to efficiently work through the traffic analysis, design development, project review, and approval process.

Public Involvement | SRF is committed to utilize and build upon our previous public involvement efforts on this corridor as part of our public involvement plan to help inform the public and stakeholders of project progress, identify and inform key decisions, and build project consensus. Our team has a plan that will be confirmed and modified as the project advances to best fit project needs.

Agency Relationships | Our familiarity with the City of Shakopee, Scott County, and MnDOT allows us to proceed promptly and efficiently. We have a complete understanding of the project and established solid working relationships to begin this project immediately. We will also listen to new ideas to ensure the corridor reconstruction anticipates future needs for many years to come while prioritizing the safety of everyone using the corridor.

Multi-Disciplinary Approach | Our knowledge of the project area and our technical expertise in environmental assessment, safety & operations, interchange design, bridge deck rehabilitation, drainage and right-of-way impacts, risk management, and more provide us with the most informed team to begin the project. The SRF team will leverage our significant background in these areas and experience on projects like this to maintain an accelerated critical path throughout the design process.

We are confident the entire SRF team will bring immediate value to the City of Shakopee and project stakeholders by exceeding expectations through consensus-driven solutions. We look forward to continuing our relationship with the City by delivering another successful project for you. If you have any questions regarding our proposal, please contact Project Director Mike Turner at mturner@srfconsulting.com or by phone at 763-249-6717. We proposed to complete the services discussed in the proposal on an hourly basis with a not to exceed cost of \$641,892. A detailed cost breakdown by task has been attached at the end of the proposal for your information.

Sincerely,



Michael Turner, PE
Project Director



Ken Holte, PE
Vice President



COST SUMMARY

SRF has developed a detailed estimate of hours and dollars for this project based on our understand of the project, the request for proposals and our approach to the project. Below we present a summary of those costs by Task. On the pages following this summary we have attached the detailed estimate showing each task and subtask needed for the project along with costs and hours by staff. If selected, we request that this scope be reviewed with the City to confirm that we both have an understanding of the assumptions, level of effort, and deliverables needed for the project.

1	Project Management and Quality Control	\$82,216
2	Public Involvement	\$38,297
3	Right of Way (Not Used)	\$0
4	Topographic Survey	\$23,262
5	Environmental Documentation / Wetlands	\$40,873
6	Geotechnical Evaluation	\$501
7	Utility Identification and Coordination	\$16,941
8	Traffic Forecasting and Analysis	\$32,658
9	Preliminary Design	\$82,806
10	Stormwater Management & Hydraulics Evaluation	\$17,360
11	Final Design	
11.1	Civil Design / Construction Documents	\$157,457
11.2	Water Resource Final Design	\$47,645
11.3	Landscape, Irrigation and Tree Replacement Final Design	\$15,862
11.4	Lighting Final Design	\$14,616
11.5	Management of Traffic Final Design and ITS Checklists	\$31,804
11.6	Bridge Deck Revision Final Design	\$57,357
11.7	Bidding Assistance	\$2,142
12	Permitting and Approvals	\$1,401
	Expenses (Includes Website Domain, Hosting, and Traffic Count Processing)	\$5,697
	Subconsultant (American Engineering Testing)	\$31,738
	Project Subtotal	\$700,633
	DISCOUNT <i>SRF has worked on this project for several years and is offering a discount on SRF rates for this project, as we are highly interested in continuing work on this project.</i>	- \$58,741
	PROJECT TOTAL COST	\$641,892

Costs per meeting are included in the detailed cost estimate that follows this summary.

We have thoroughly reviewed the RFP, and based on our knowledge of the process that will be required for MnDOT review and approvals of this project and have proposed the tasks we feel are necessary to provide the City with a comprehensive design to deliver success. **Through our review, we have identified several items that are not identified in the RFP, items which the City has indicated they desire, or we recognize through our experience with these projects will be required. Those items are listed below and shown bold and in red text within the detailed cost sheet on the following pages.** The cost of the items below are included in the totals above and have a value of approximately \$76,762.

- RW Basemap
- ICE Report Updates
- Level 1 Staff Approved Layout
- Coordination with LAC/GDSU
- Design Memorandum
- TMP
- Collect traffic counts at one additional location
- ITS Plans and Checklists
- Coop Agreement Cost Part. Layout
- MnDOT CO 95% Plan Review Set and Meeting
- Section 4(f) and 6(f) coordination for Parks
- MnDOT Utility Permit
- Irrigation Service and Spec Design



TASK NO.	SUMMARY OF TASKS
1	Project Management and Quality Control
2	Public Involvement
3	Right of Way (Not Used)
4	Topographic Survey
5	Environmental Documentation / Wetlands
6	Geotechnical Evaluation
7	Utility Identification and Coordination
8	Traffic Forecasting and Analysis
9	Preliminary Design
10	Stormwater Management & Hydraulics Evaluation
11	Final Design
11.1	Civil Design / Construction Documents
11.2	Water Resource Final Design
11.3	Landscape, Irrigation and Tree Replacement Final Design
11.4	Lighting Final Design
11.5	Management of Traffic Final Design and ITS Checklists
11.6	Bridge Deck Revision Final Design
11.7	Bidding Assistance
12	Permitting and Approvals

Project Overview:

This project consists of the confirming concept alternatives, development of a preliminary design and layout, and final design for Marystown Road between 17th Avenue W and 12th Avenue W. The anticipated schedule for this work is shown in the project schedule, but is anticipated to begin in September 2023 and be substantially complete by April 1, 2024 followed by MnDOT and FHWA authorization and bidding to allow for construction to begin in late summer / fall 2025. The current cost estimate is anticipated to be approximately \$4.65M, but we understand the City has included \$6.3M in the current CIP. The project is funded through Federal Regional Solicitation Grant of \$3,723,172 and local funds and will need to meet both MnDOT requirements for the interchange elements and also follow the Federal Aid Delegated Contract Process.

We have thoroughly reviewed the RFP and below we propose the tasks we feel are necessary to provide the city with a comprehensive design to deliver success. Through our review, we have identified several items that are not identified in the RFP which the City has indicated they desire or we recognize through our experience with these projects will be required. **Those items are shown bold and in red text within this document so they can be easily identified.**

TASK NO.	TASK DESCRIPTION	PROF. VIII-VII	PROF. VI	PROF. V	PROF. IV	PROF. III	PROF. II	PROF. I	TECH.	SUPPORT	TOTALS	EST. FEE
		Mike Turner Aaron Vacek Bob Leba Matt Cramer Adrian Potter	Casey Black Steve McHenry Jeremy Nielsen Brett Danner	Brandon Maas (PM) Eric Hanson Sean Jergens	Michael Fischer Jono Cowgill Clayton Bayer Jana Guseynova Alex Yellick Chris Brown Brent Clark	Kyle Strandberg Spencer Neff Zach Thelen Claire Fresmeier	Dan Bielenski Maddie Riddle Mikaela Ziegler John Fesenmaier Shaunna Newton	Abbi Nill Josephine Afshar Samantha Baker Karyna Quick Eric Wurst	Joe VanBeck Jim Hoffman Tom Richardson Dan Tinklenberg Jacob Ansell			
1.0	Project Management and Quality Control <u>Assumptions:</u> - Design to follow what is shown in the current developed concept study layout, including roundabout at the ramp termini, and Vierling Drive / Marystown Road Intersection. - Assumed design project duration of 24 months (September 2023 to September 2024). Project authorization is required to occur prior to June 1, 2025. Assumed bidding phase to occur prior to September 2025 and construction phase to occur starting in 2025. - QA/QC checks will follow SRF's QMP with basic quality documentation as shown in the draft Quality Management Plan included in the proposal response. - QA/QC hours included in individual tasks, QA/QC compliance reviews and audits included below. - Sub Consultant Coordination with AET is included in the Geotechnical Task - Agency involvement will occur primarily through the PMT Meetings except as specifically included separately in the design Tasks 9, 10 and 11 below for MnDOT, and Watersheds. <u>Client Deliverables:</u> - Staff Participation in project activities - Review and input on Quality Management Plan											
1.1	<u>Project Management</u> Management and administration of the project will include monthly progress reports, invoicing, cost and schedule updates, billing preparation, task tracking and action log preparation, other non-technical work, and communication with the project personnel to ensure project tasks are completed on time, within budget, and in accordance with state and federal laws, rules, and regulations (assumes 6 hours/month x 1 staff (PM) x 24 months and 2 hrs per month for 1 staff (Proj. Director) and minimal support time. This work plan is based on an approximate construction value as indicated in the project overview above.	48	-	144	-	-	-	-	-	16	208	\$42,864.00

TASK NO.	TASK DESCRIPTION	PROF. VIII-VII	PROF. VI	PROF. V	PROF. IV	PROF. III	PROF. II	PROF. I	TECH.	SUPPORT	TOTALS	EST. FEE
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1.2	<u>Monthly PMT Meetings</u> Arrange, attend and facilitate monthly PMT meetings to discuss issues related to design decisions, permitting, schedule, design and plan review timelines, and final plan approval. Tasks includes preparation of agendas, action list, and meeting minutes, scheduling, preparation, and documentation. SRF attendees will include SRF PM and up to two additional technical staff as appropriate - Estimates 1 Kick off and 18 PMT meetings will be required. (After FHWA authorization is requested, PMT meetings will no longer be necessary. - Meetings will be held virtually - 2 SRF staff x 1 hours/meeting + 4 hour prep / follow up time total per meeting. Project Director at 8 meetings, Additional SRF Attendee at 8 meetings. - Cost per meeting is \$1,006.95	8	-	38	-	57	8	-	-	-	111	\$19,132.00
1.3	<u>Weekly Shakopee / SRF PM Check In Meetings</u> Regular Project Team check-in meetings with SRF, City PM and other key agency stakeholders as needed. - Estimates 60 Weekly Virtual Conference Meetings (September 2023 - March 2025) - Estimate 10 (Bi-Weekly Virtual Check In Meetings (April 2025 - September 2025) - Check in meetings will be offset from Monthly PMT Meetings which will serve as the check in on those weeks. - 30 minute meeting - 1 Project Manager (30 mins/meeting at 70 meetings)and 1 Project Director(30 mins/meeting at 20 meetings), also includes 15 mins of prep time and 15 mins of follow up time per meeting for PM - Cost per meeting is \$236.14	10	-	70	-	-	-	-	-	-	80	\$16,530.00

TASK NO.	TASK DESCRIPTION	PROF. VIII-VII Mike Turner Aaron Vacek Bob Leba Matt Cramer Adrian Potter	PROF. VI Casey Black Steve McHenry Jeremy Nielsen Brett Danner	PROF. V Brandon Maas (PM) Eric Hanson Sean Jergens	PROF. IV Michael Fischer Jono Cowgill Clayton Bayer Jana Guseynova Alex Yellick Chris Brown Brent Clark	PROF. III Kyle Strandberg Spencer Neff Zach Thelen Claire Fresmeier	PROF. II Dan Bielenski Maddie Riddle Mikaela Ziegler John Fesenmaier Shaunna Newton	PROF. I Abbi Nill Josephine Afshar Samantha Baker Karyna Quick Eric Wurst	TECH. Joe VanBeck Jim Hoffman Tom Richardson Dan Tinklenberg Jacob Ansell	SUPPORT	TOTALS	EST. FEE
1.4	<u>Quality Management</u> Review draft Quality Management Plan (included with proposal response) with the City and update to reflect City comments	1	-	-	-	-	-	-	-	-	1	\$246.00
1.5	Implement quality management audits for 60% (4 hrs.), 95% (4 hrs.), and 100% (6 hrs.) plan deliverables. Hours shown for Quality Manager only. QC processes included in design tasks below.	14	-	-	-	-	-	-	-	-	14	\$3,444.00
	<u>SRF Deliverables:</u> - Project schedule with monthly updates - Monthly invoices - Meeting agenda, materials, and documentation for PMT Meetings - Work Task and Action Log - Quality Management Plan											
	SUBTOTAL - TASK 1	81	0	252	0	57	8	0	0	16	414	\$82,216.00

TASK NO.	TASK DESCRIPTION	PROF. VIII-VII	PROF. VI	PROF. V	PROF. IV	PROF. III	PROF. II	PROF. I	TECH.	SUPPORT	TOTALS	EST. FEE
		Mike Turner Aaron Vacek Bob Leba Matt Cramer Adrian Potter	Casey Black Steve McHenry Jeremy Nielsen Brett Danner	Brandon Maas (PM) Eric Hanson Sean Jergens	Michael Fischer Jono Cowgill Clayton Bayer Jana Guseynova Alex Yellick Chris Brown Brent Clark	Kyle Strandberg Spencer Neff Zach Thelen Claire Fresmeier	Dan Bielenski Maddie Riddle Mikaela Ziegler John Fesenmaier Shaunna Newton	Abbi Nill Josephine Afshar Samantha Baker Karyna Quick Eric Wurst	Joe VanBeck Jim Hoffman Tom Richardson Dan Tinklenberg Jacob Ansell			
2.0	Public Involvement											
	Assumptions:											
	- Agency involvement will occur primarily through the PMT Meetings except as specifically included separately in the design Tasks 9, 10 and 11 below for MnDOT, and Watersheds.											
	- 2 Open houses @ 2 hrs each (In Person), and 2 hrs setup/travel, 4 hrs prep per person. Assume 2 staff. Also includes 2 hours per open house to prepare and post online public engagement information to website.											
	- Open Houses will be available online after the public in person open houses, either via presentation posting on the website or via posting of recorded presentation.											
	- Three stakeholder meetings @ 1 hr each Plus 2 hour of travel for both staff and 3 hrs coordination for 1 staff, assume 2 staff. Meetings will be in person, but could be accommodated as virtual.											
	- Setup and host project website via Esri Hub site											
	- Assume 2 pop up meetings at 4 hrs each including travel, 2 staff, and 8 hrs prep											
	Client Deliverables:											
	- Mailing list											
	- Post social media ads											
2.1	Public engagement plan & update	-	-	-	8	-	8	-	-	-	16	\$2,224.00
2.2	Open houses	-	-	16	16	-	16	4	-	-	52	\$8,140.00
2.3	Non-Agency Stakeholder meetings	-	-	9	12	-	-	-	-	-	21	\$3,681.00
2.4	Promotions (Mailings, social media, newsletters)	-	-	-	18	-	20	16	-	-	54	\$7,152.00
2.5	Website Setup, Maintenance and Hosting	-	-	-	20	-	24	16	8	-	68	\$9,200.00
2.6	Additional Recommended Strategies and Opportunities: Pop ups	-	-	-	16	-	16	-	-	-	32	\$4,448.00
2.7	Additional Recommended Strategies and Opportunities: Engagement in a box	-	-	-	16	-	4	-	-	-	20	\$2,984.00
2.8	Additional Recommended Strategies Provide Spanish Translations for Handouts and Project Layout Legends and Text.	-	-	-	3	-	-	-	-	-	3	\$468.00
	SRF Deliverables:											
	- Engagement plan											
	- Project graphics for public outreach											
	- Project website using Esri Hub											
	- Meeting minutes for all stakeholder meetings, pop ups, open houses											
	SUBTOTAL - TASK 2	0	0	25	109	0	88	36	8	0	266	\$38,297.00

[illegible]

TASK NO.	TASK DESCRIPTION	PROF. VIII-VII	PROF. VI	PROF. V	PROF. IV	PROF. III	PROF. II	PROF. I	TECH.	SUPPORT	TOTALS	EST. FEE
		Mike Turner Aaron Vacek Bob Leba Matt Cramer Adrian Potter	Casey Black Steve McHenry Jeremy Nielsen Brett Danner	Brandon Maas (PM) Eric Hanson Sean Jergens	Michael Fischer Jono Cowgill Clayton Bayer Jana Guseynova Alex Yellick Chris Brown Brent Clark	Kyle Strandberg Spencer Neff Zach Thelen Claire Fresmeier	Dan Bielenski Maddie Riddle Mikaela Ziegler John Fesenmaier Shaunna Newton	Abbi Nill Josephine Afshar Samantha Baker Karyna Quick Eric Wurst	Joe VanBeck Jim Hoffman Tom Richardson Dan Tinklenberg Jacob Ansell			
4.0	Topographic Survey <u>Assumptions:</u> - City will provide CADD Existing Right of Way Files for use in design - City will provide Plat information or Title Reports information for adding existing easements to right of way basefiles for all adjacent parcels <u>Client Deliverables:</u> - Existing Right of Way CADD File - Easement, Title Reports or Plats with existing easements - Record Drawings <u>Basemap Setup</u>											
4.1	Gather previous mapping, cadd files, and record drawings and create existing CADD Basemap for design	-	-	2	-	2	2	4	-	-	10	\$1,422.00
4.2	Using City provided CAD RW Map supplement map with existing easements from provided Title Reports, Plats, and Easement Documents to create existing Right of Way Basefile	-	-	-	6	-	-	-	-	-	6	\$936.00
	<u>Topographic Survey</u>											
4.3	Design topo of approximate 7500 foot corridor	-	-	-	8	-	-	-	104	-	112	\$17,472.00
4.4	Addition water resources topo - assume two trips	-	-	-	4	-	-	-	18	-	22	\$3,432.00
	<u>SRF Deliverables:</u> - Existing conditions topographic cad file. - Existing utilities cad file. - Right of way cad basefile supplemented with existing easements											
	SUBTOTAL - TASK 4	0	0	2	18	2	2	4	122	0	150	\$23,262.00

TASK NO.	TASK DESCRIPTION	PROF. VIII-VII	PROF. VI	PROF. V	PROF. IV	PROF. III	PROF. II	PROF. I	TECH.	SUPPORT	TOTALS	EST. FEE
		Mike Turner	Casey Black	Brandon Maas (PM)	Michael Fischer	Kyle Strandberg	Dan Bielenski	Abbi Nill	Joe VanBeck			
		Aaron Vacek	Steve McHenry	Eric Hanson	Jono Cowgill	Spencer Neff	Maddie Riddle	Josephine Afshar	Jim Hoffman			
		Bob Leba	Jeremy Nielsen	Sean Jergens	Clayton Bayer	Zach Thelen	Mikaela Ziegler	Samantha Baker	Tom Richardson			
		Matt Cramer	Brett Danner		Jana Guseynova	Claire Fresmeier	John Fesenmaier	Karyna Quick	Dan Tinklenberg			
		Adrian Potter			Alex Yellick		Shaunna Newton	Eric Wurst	Jacob Ansell			
					Chris Brown							
					Brent Clark							

- 5.0

Environmental Documentation / Wetlands

Assumptions:

-

Assumes the project will fall within the definition of the C-list Short Form CATEX under citation c(23) (less than \$6,546,000 in federal aid funding).

-

Project doesn't meet the threshold for a mandatory EAW. No EAW required.

-

Assumes state aid process for environmental review.

-

Assumes the project is a Type III project, therefore, no traffic noise analysis required.

-

Assumes right of way acquisition is required but no relocations anticipated, therefore no environmental justice analysis required.

-

Assumes no historic properties finding for Section 106. Assumes no archaeological survey required.

Assumes no architectural history survey required.

-

Assumes Section 4(f) temporary occupancy condition for proposed trail connections.

-

Assumes no permanent conversion of Section 6(f)/LAWCON properties (Tahpah Park and Lions Park). Assumes coordination with MnDNR to confirm no permanent conversion.

-

Assumes farmland form and NRCS coordination is required.

-

Assumes no effect or not likely to adversely effect (NLAA) protected species under Section 7 of the Endangered Species Act (ESA).

-

Assumes no GHG or air quality assessments.

-

Assumes no Floodplain Assessment is required.

-

Assumes no Environmental Management Plan (EMP/Greensheets) required.

-

Assumes purpose and need and alternatives analysis will be developed within the CATEX (not standalone reports)

-

Level 1 Delineation to be completed during one mobilization by two SRF staff in accordance with the 1987 Corps of Engineers Wetland Delineation Manual.

-

The site visit will be completed in accordance with SRF safety standards. The site visit will be completed during the growing season as defined by the Corps of Engineers Wetland Delineation Manual.

-

Assumes the project will avoid all wetland impacts.

TASK NO.	TASK DESCRIPTION	PROF. VIII-VII	PROF. VI	PROF. V	PROF. IV	PROF. III	PROF. II	PROF. I	TECH.	SUPPORT	TOTALS	EST. FEE
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	- Assumes no onsite meeting with the WCA Technical Evaluation Panel. - Assumes no Level 2 Onsite Wetland Delineation needed. - Assumes WCA/USACE joint application permit and creation of impact exhibits is not required. - Assumes no design exceptions. - Attendance at up to 4 PMT meetings included under Task 1.0 for 1 person for 1 hour virtually											
	<u>Client Deliverables:</u> Any data for purpose and need that is not in Intersection Control Evaluation (ICE) reports/updates.											
5.1	Prepare and submit agency review requests (MnDOT OES and MnDNR NHIS)	-	1	-	8	-	-	-	-	-	9	\$1,467.00
5.2	Prepare C-list Short Form CATEX	-	4	-	114	-	38	-	-	-	156	\$23,296.00
5.3	Address MnDOT comments and revise CATEX	-	-	-	16	-	-	-	-	-	16	\$2,496.00
5.4	Agency and internal coordination	-	4	-	20	-	-	-	-	-	24	\$3,996.00
5.5	Not Used	-	-	-	-	-	-	-	-	-	0	\$0.00
5.6	Section 4(f) Temporary Occupancy Letter	-	4	-	20	-	-	-	-	-	24	\$3,996.00
5.7	Section 6(f) Coordination with MnDNR	-	2	-	10	-	-	-	-	-	12	\$1,998.00
5.8	Wetland Summary Documentation, Photo Appendix, and No Loss Verification	-	-	-	4	20	-	-	-	-	24	\$3,624.00
	<u>SRF Deliverables:</u> - Section 4(f) Temporary Occupancy Letter - MnDNR correspondence to confirm no permanent conversion of Section 6(f) property - C-List Programmatic Categorical Exclusion (Short Form) - Wetland Summary Documentation and Photo Appendix - No Loss Verification Documentation from the WCA LGU (MN Rule 8420.0315)											
	SUBTOTAL - TASK 5	0	15	0	192	20	38	0	0	0	265	\$40,873.00

Client: City of Shakopee

Project: Marystown Road Corridor Improvements



Subconsultants: American Engineering Testing

16984.PP

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6.0	Geotechnical Evaluation <u>Assumptions:</u> - Geotechnical Evaluation and Reporting will be provided by American Engineering Testing. Their scope of work ins attached to this cost sheet. - Time included below is for coordination of sub consultant work and coordination to integrate analysis into the design. <u>Client Deliverables:</u> - Review of Geotechnical Reports and Recommendation											
6.1	Support and coordination. (Time shown is for SRF to coordinate and support the Geotechnical Effort.)	-	-	1	-	2	-	-	-	-	3	\$501.00
6.2	Geotechnical Evaluation by AET (See Expenses for cost)	-	-	-	-	-	-	-	-	-	0	\$0.00
6.2.1	Soil Boring Plan - 8 Standard Penetration Test (SPT) borings within the trail and roundabout widening areas to depths of 6 to 11 feet. - 14 SPT borings on the existing pavement to depths of 6 feet, with 3 pavement cores for the borings performed on TH 169 ramps - 3 SPT borings and a monitoring well within the proposed water resource BMP footprint to a depth of 20 feet.	-	-	-	-	-	-	-	-	-	0	\$0.00
6.2.2	Geotechnical Report, including pavement design, subgrade recommendations, estimate R-values, soil improvement and water treatment area recommendation.	-	-	-	-	-	-	-	-	-	0	\$0.00
6.2.3	Material Design Recommendation based on current MnDOT Pavement Design Manual	-	-	-	-	-	-	-	-	-	0	\$0.00
6.2.4	Stormwater management area soil borings and recommendations	-	-	-	-	-	-	-	-	-	0	\$0.00
	<u>Team Deliverables:</u> - Soil Boring Plan - Geotechnical Report - Material Design Report											
	SUBTOTAL - TASK 6	0	0	1	0	2	0	0	0	0	3	\$501.00

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7.0	Utility Identification and Coordination <u>Assumptions:</u> - Utility coordination efforts included in this scope will conform to MnDOT's present utility coordination process detailed in in the MnDOT Utilities Manual (August 2016). - Utility Coordination Process Steps 10, and 13 - 14 not included in this scope - Utility mapping will be quality level D; No SUE mapping included in this scope - Coordination effort assumes no transmission pole relocation is necessary - No private utility design - Review and approval of MnDOT Utility Permit applications will occur as part of a construction services contract. <u>Client Deliverables:</u> - Provide meeting space and attend utility coordination meetings - Complete Utility Coordination Process Steps 13 - 14 as applicable or include in construction services work scope.											
7.1	Step 1 - Utility Identification Perform Gopher State Once Call, receive and map utility data, and conduct field reviews if necessary.	1	-	-	-	4	-	12	-	-	17	\$2,274.00
7.2	Step 2 - Utility Information Meeting (First Meeting) Upon completion of Alternatives Analysis and development of a design preliminary design, a PDF utility coordination letter and PDF version of relevant layout plans will be emailed to applicable utility owners. A utility information meeting will be held within 2-3 weeks after letters are sent out. Utility information meeting will be held to inform utility owners about the project and confirm location of existing and future utilities. Assumes one hour meeting with one SRF staff members. Meeting minutes will be prepared and distributed. Meeting will be Virtual Utility owners will be requested to provide any private utility easement information or ownership rights for incorporation into the project basefiles.	-	-	-	-	3	-	4	-	-	7	\$926.00

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7.3	Step 3 - Utility Information Review Utility plans and tabulations will be prepared and revised based on comments received from utility owners. Plans will be reviewed for utility conflicts and tabulations updated to note "leave as is", "adjust", or "relocate".	2	-	2	-	6	-	12	-	-	22	\$3,222.00
7.4	Step 4 - Utility Design Meeting (Second Meeting) A PDF utility coordination letter and PDF version of relevant draft plans (approximately 75% complete) will be emailed to applicable utility owners. A utility design meeting will be held within 2-3 weeks after letters are sent out. Utility design meeting will focus on finding solutions to utility conflicts. . Meeting minutes will be prepared and distributed. Assumes one hour meeting with up to two SRF staff members, two hours of travel time per staff and two hours of prep and documentation time for the meeting lead.	3	-	-	-	5	-	4	-	-	12	\$1,964.00
7.5	Step 5 - Request for Utility Relocation Plans A PDF utility coordination letter requesting relocation plans will be emailed to applicable utility owners.	-	-	-	-	1	-	2	-	1	4	\$520.00
7.6	Step 6 - Utility Coordination Follow Up Task included for additional follow up that may be required if utility owners are unresponsive or require additional coordination efforts.	1	-	-	-	4	-	4	-	-	9	\$1,322.00
7.7	Step 7 - Utility Design Change Meeting / Individual Utility Owner Coordination Meetings Assumes no major changes to the design will occur following the utility design meeting and that a large group Utility Design Change Meeting will not be required. Up to 5 individual utility coordination meeting will be held to arrange / coordination relocation plans and timing. Meetings will be virtual (3 meetings) or onsite (2 meetings), one SRF staff person for 1 hour meeting, 1hour of prep and documentation time and 2 hours of travel time for in person meetings. Also includes 30 mins of prep time for Level 1 Engineer to support meeting materials per meeting.	-	-	-	-	14	-	3	-	-	17	\$2,457.00
	Cost per meeting is \$491.40											

Client: City of Shakopee

Project: Marystown Road Corridor Improvements



Subconsultants: American Engineering Testing

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7.8	Step 8 - 90 Day Gopher State One Call A 90 day Gopher State Once Call will be submitted for final utility verification within 90 days of final plan submittal.	-	-	-	-	-	-	1	-	-	1	\$119.00
7.9	Step 9 - Utility Relocation Plan Review Review utility relocation plans and schedule to ensure project conflicts are resolved and meet Utility Accommodation Policy.	2	-	-	-	7	-	7	-	-	16	\$2,375.00
7.10	Step 10 Reimbursement and Utility Agreements As relocations that would require reimbursement are not anticipated as part of this project, no time is included in this task.	-	-	-	-	-	-	-	-	-	0	\$0.00
7.11	Step 11 - Notice and Order As the right of way is currently mostly controlled by MnDOT, Notice and Orders will be required to formally notify utility companies of need to relocate / adjust. Notices will be prepared and submitted.	2	-	-	-	3	-	-	-	1	6	\$1,074.00
7.12	Step 12 - Utility Information in Contract Documents This work is included within the work performed under Task 11.1. No time is included here, but will be performed as part of that work so that the plans and contract documents include the required utility information.	-	-	-	-	-	-	-	-	-	0	\$0.00

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7.13	Pre-Construction Utility Coordination Meeting After plans are complete, a final utility coordination meeting will be held with utility companies to confirm plans and timing for any relocations and to communicate project timing so relocations can be performed to avoid impact to the roadway contractor's planned operations. Meeting agenda and documentation will be prepared. Meeting will include one SRF staff for a 1 hour meeting plus 2 hours of agenda and documentation time. Also includes 2 hours of preparation time for a Level 1 Engineer. Meeting will be in virtual. Cost per meeting is \$688.00 SRF Deliverables: - Completion of MnDOT Utility Coordination Process Steps 1 - 9, and 11-12. - Documentation of Utility Coordination Process and Meetings	-	-	-	-	3	-	2	-	-	5	\$688.00
	SUBTOTAL - TASK 7	11	0	2	0	50	0	51	0	2	116	\$16,941.00

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8.0	Traffic Forecasting and Analysis <u>Assumptions:</u> Traffic counts will be 13-hours in duration Traffic counts will account for all modes of travel Traffic counts will be collected when school is in session Traffic forecasts will account for future development plans for the area Traffic analysis will be conducted using the Synchro/Sim Traffic software <u>Client Deliverables:</u> Timely review of traffic results and documentation											
8.1	Review previous materials related to the project	-	-	-	2	-	-	2	-	-	4	\$550.00
8.2	Collect traffic counts at the key seven (7) intersections identified in the RFP	-	-	-	2	-	-	16	-	-	18	\$2,216.00
8.3	Collect speed data at two locations to be determined by the project management team	-	-	-	1	-	-	4	-	-	5	\$632.00
8.4	Compare previously collected data to new counts	-	-	-	2	-	-	4	-	-	6	\$788.00
8.5	Update year 2035 and 2045 forecasts	-	-	-	4	-	-	8	-	-	12	\$1,576.00
8.6	Conduct existing, 2035 and 2045 traffic operations analysis	-	-	-	8	-	-	24	-	-	32	\$4,104.00
8.7	Identification of short term and long term recommendations	2	-	-	4	-	-	4	-	-	10	\$1,592.00
8.8	Develop a draft and final traffic technical memorandum	-	-	-	12	-	-	24	-	-	36	\$4,728.00
8.9	Collect traffic counts at one additional location identified in our work plan	-	-	-	1	-	-	2	-	-	3	\$394.00
8.10	ICE Reports Update	2	-	-	16	-	-	110	-	-	128	\$16,078.00
	<u>SRF Deliverables:</u> - Electronic files of all traffic volume, speed, classification counts at each location Electronic files of all HCS and Synchro/SimTraffic modeling files - Electronic versions of the draft and final traffic technical memorandum - Intersection Control Evaluation (ICE) Reports Update											
	SUBTOTAL - TASK 8	4	0	0	52	0	0	198	0	0	254	\$32,658.00

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9.0	Preliminary Design <u>Assumptions:</u> - Alternatives developed for consideration will be based on the design from the 2020 concept study as the baseline and the secondary alternative will identify any needed future expansion. - Condit Alternative Design Layout will be developed for the two alternatives to allow for evaluation and consideration of the PMT and Agencies. - Only one design will be developed to a MnDOT Level 1 Staff Approved Layout - Design will follow State Aid Rules 8820.9936, 8820.9995, the current Bicycle Design Manual and MnDOT Road Design Manual. - Layout Review Agencies will include City of Shakopee, MnDOT and Scott County. - No Value Engineering Study will be required - No design exceptions needed - A single set of comments will be received and addressed from the LAC and GDSU <u>Client Deliverables:</u> - Review & comment on Design Standards and Concept Layouts - Review of draft Design Memorandum <u>Gather / Review Previous Work</u>											
9.1	Gather previous design study and public engagement information and compile and prepare baseline CAD designs for use in further alternatives analysis and design development. (No time included here as this is included in Task 4.1)	-	-	-	-	-	-	-	-	-	0	\$0.00

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	<u>Alternatives Analysis (Task 9.2 - 9.7)</u>											
	<i>Utilizing input from the Traffic Evaluations, determine:</i>											
	<i>Is the baseline improvement consistent with the previous corridor study design?</i>											
	<i>Is any future expansion needed within the lifespan of the proposed improvement?</i>											
	<i>If so when?</i>											
	<i>What does any future expansion design include?</i>											
	<i>How do they compare in approximate impact and improvement vs costs?</i>											
	<u>Alternative Analysis Typical Sections</u>											
9.2	Confirm Project Design Standards:	-	-	2	-	2	-	-	-	-	4	\$702.00
	- Design Speed											
	- Number of Lanes (Baseline and Future Expansion)											
	- Driveway Access Spacing Requirements											
	- Location of pedestrian / bicycle facilities											
	- Superelevation / Horizontal Curvature											
	- Lane, median and curb and gutter widths											
	- Side slopes											
9.3	Develop up to four (4) typical sections using Openroads and Beyond Typicals to demonstrate the impacts for widening / narrowing of roadway based on proposed improvements. (2 Per Alternative)	-	-	2	-	2	2	-	-	-	6	\$946.00
	- Beyond Typicals sections will allow for a visual representation of the typical for pubic and stakeholder engagement purposes.											
	<u>Alternative Analysis Layouts and Preliminary Design</u>											
9.4	Update geometry from previous concept study and develop two Alternative Design Layouts for comparison of alternatives.	-	-	2	-	40	32	32	-	-	106	\$14,114.00
9.5	Prepare two (2) estimates of construction cost for comparison of the Alternate Design Layouts using SRF one page cost estimation tool.	-	-	2	-	4	-	5	-	-	11	\$1,597.00
9.6	Prepare a comparison matrix to compare the impacts and improvements vs costs of the alternatives.	-	-	2	-	2	-	3	-	-	7	\$1,059.00
9.7	Present Alternatives to PMT and key agency stakeholders to select an alternative (No time included as this will be part of a PMT))	-	-	-	-	-	-	-	-	-	0	\$0.00

Client: City of Shakopee

Project: Marystown Road Corridor Improvements



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9.8	<u>Preliminary Design</u> Once an alternative is selected by the PMT and approval agencies, refine design of preferred alternative and develop design that identifies potential impacts (construction limits), shows horizontal and vertical alignments, driveway access control improvements, and pedestrian / bicycle improvements and key traffic control and water resource and bridge revision elements. The design model and preliminary cross sections will also be developed. This will also be used to identify any impacts to parks (Section 4f or 6f are likely) or any right of way / easement needs (which are currently not anticipated.)	-	-	6	-	30	50	50	-	-	136	\$17,756.00
9.9	Update construction cost estimate based on preliminary design alternative. Using SRF one page cost estimation tool.	-	-	1	-	2	-	3	-	-	6	\$858.00
	<u>Enhanced Pedestrian Safety Evaluation</u>											
9.10.1	Prepare analysis of pedestrian crossing locations	-	-	-	12	-	-	-	-	-	12	\$1,872.00
9.10.2	Complete analysis and up to two (2) alternatives of enhanced crossings at the three (3) roundabouts	-	-	-	18	8	-	24	-	-	50	\$6,864.00

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Subconsultants: American Engineering Testing

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TASK NO.	TASK DESCRIPTION	PROF. VIII-VII Mike Turner Aaron Vacek Bob Leba Matt Cramer Adrian Potter	PROF. VI Casey Black Steve McHenry Jeremy Nielsen Brett Danner	PROF. V Brandon Maas (PM) Eric Hanson Sean Jergens	PROF. IV Michael Fischer Jono Cowgill Clayton Bayer Jana Guseynova Alex Yellick Chris Brown Brent Clark	PROF. III Kyle Strandberg Spencer Neff Zach Thelen Claire Fresmeier	PROF. II Dan Bielenski Maddie Riddle Mikaela Ziegler John Fesenmaier Shaunna Newton	PROF. I Abbi Nill Josephine Afshar Samantha Baker Karyna Quick Eric Wurst	TECH. Joe VanBeck Jim Hoffman Tom Richardson Dan Tinklenberg Jacob Ansell	SUPPORT	TOTALS	EST. FEE
9.11.1	<u>Preliminary Layout</u> Prepare draft Level 1 Preliminary Layout Incorporating design from Task 9.8	2	-	12	-	20	44	64	4	-	146	\$19,512.00
9.11.2	Perform QC Review of the Preliminary Layout	2	-	2	-	-	-	-	-	-	4	\$894.00
9.11.3	Submit and present the Draft Preliminary Layout to the PMT, receive comments. (The time included here is for preparing and sending a submittal to the PMT, the presentation is included as a part of the PMT Meetings)	-	-	1	-	1	-	-	-	-	2	\$351.00
9.11.4	Not used	-	-	-	-	-	-	-	-	-	0	\$0.00
9.11.5	Refine layout & profiles and present to MnDOT for District review and comment, receive comments, determine disposition and revise as needed.	-	-	2	-	4	8	4	-	-	18	\$2,454.00
9.11.6	Submit and Present Draft Preliminary Level 1 Layout to MnDOT Layout Advisory Committee (LAC) and present Layout to LAC and MnDOT Geometric Design Unit for required review and input. Includes one meeting to present the layout to the LAC (GDSU is present) with one SRF PM for 1 hour virtual meeting plus 2 hours of prep time. Also includes two submittals, one to the LAC and a separate submittal to GDSU following addressing LAC Comments from presentation meeting.	-	-	5	-	-	-	-	-	-	5	\$1,005.00
9.11.7	Revise Layout based on LAC and GDSU review (up to 26 Hours)	-	-	4	-	6	8	8	-	-	26	\$3,632.00
9.11.8	Submit and Present to MnDOT Central Office for final staff approval.	-	-	2	-	1	-	-	-	-	3	\$552.00
9.11.9	Perform QC Review of the Final Preliminary Layout	2	-	2	-	-	-	-	-	-	4	\$894.00
9.11.10	Receive comments from MnDOT Central Office, determine comment dispositions, and revise layout. (Assumes 1 set of Central Office review comments are received and addressed, up to 12 hours of time)	-	-	2	-	4	2	4	-	-	12	\$1,722.00
9.11.11	Prepare distribution copies of the approved layout.	-	-	1	-	1	-	-	-	-	2	\$351.00
9.12	Prepare materials and supporting documentation for presentation at Public Involvement Meeting. (See Public Involvement section of Schedule in proposal for timing)	-	-	-	-	-	-	-	-	-	0	\$0.00

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		Mike Turner Aaron Vacek Bob Leba Matt Cramer Adrian Potter	Casey Black Steve McHenry Jeremy Nielsen Brett Danner	Brandon Maas (PM) Eric Hanson Sean Jergens	Michael Fischer Jono Cowgill Clayton Bayer Jana Guseynova Alex Yellick Chris Brown Brent Clark	Kyle Strandberg Spencer Neff Zach Thelen Claire Fresmeier	Dan Bielenski Maddie Riddle Mikaela Ziegler John Fesenmaier Shaunna Newton	Abbi Nill Josephine Afshar Samantha Baker Karyna Quick Eric Wurst	Joe VanBeck Jim Hoffman Tom Richardson Dan Tinklenberg Jacob Ansell			
	State Aid Design Memorandum This item will be required for this project by MnDOT and State Aid											
9.13.1	Prepare the Design Memorandum to document the project design standards and any design exceptions being requested.	-	-	4	-	16	-	4	2	-	26	\$3,992.00
9.13.2	Present draft Design Memorandum to PMT and revise as necessary. (Time here is for revisions. Presentation of the memo to PMT is included under Task 1)	-	-	1	-	2	-	2	-	-	5	\$739.00
9.13.3	Present Design Memorandum to MnDOT Central Office for approval, make revisions. (Assumes 1 set of comments is received and addressed from Central Office / District on Design Memo)	-	-	2	-	2	-	2	-	-	6	\$940.00
	<u>SRF Deliverables:</u> - Two (2) Design Layouts for Alternative Analysis - Two (2) Design Costs for Alternative Comparison - Draft and Final Level 1 Staff Approved Layout - Updated Cost Estimate based on Approved Layout - Design Memorandum											
	SUBTOTAL - TASK 9	6	0	57	30	147	146	205	6	0	597	\$82,806.00

TASK NO.	TASK DESCRIPTION	PROF. VIII-VII	PROF. VI	PROF. V	PROF. IV	PROF. III	PROF. II	PROF. I	TECH.	SUPPORT	TOTALS	EST. FEE
		Mike Turner Aaron Vacek Bob Leba Matt Cramer Adrian Potter	Casey Black Steve McHenry Jeremy Nielsen Brett Danner	Brandon Maas (PM) Eric Hanson Sean Jergens	Michael Fischer Jono Cowgill Clayton Bayer Jana Guseynova Alex Yellick Chris Brown Brent Clark	Kyle Strandberg Spencer Neff Zach Thelen Claire Fresmeier	Dan Bielenski Maddie Riddle Mikaela Ziegler John Fesenmaier Shaunna Newton	Abbi Nill Josephine Afshar Samantha Baker Karyna Quick Eric Wurst	Joe VanBeck Jim Hoffman Tom Richardson Dan Tinklenberg Jacob Ansell			
10.0	Stormwater Management & Hydraulics Evaluation <u>Assumptions:</u> WRE coordination anticipated with the following agencies: City of Shakopee Minnesota Department of Transportation (MnDOT) Lower Minnesota River Watershed District One new best management practice (pond) will be required to treat City stormwater and one existing BMP will be modified to treat MnDOT stormwater. Water quality computations will not be required or completed. Stormwater BMPs will be designed utilizing accepted methodology resulting in typical removal efficiencies as listed in the Minnesota No culverts greater than 48" will be required. Therefore, no risk assessment or hydraulic memo will be required. No floodplain impacts. HydroCAD will be utilized for hydrologic and hydraulic modeling of storm water BMPs. Culverts and storm sewer conveying offsite water will be sized using the City of Shakopee's and Scott County's hydraulic models Major culvert crossing south of the Vierling Dr./Marystown Rd intersection will remain as-is and not impacted. MnDOT will provide design computations for the existing ponds at the interchange <u>Client Deliverables:</u> City and County hydraulic models											
10.1	Collect and review available data for the corridor. Perform a field walk to review existing conditions and prepare survey request.	-	-	-	-	4	-	8	-	-	12	\$1,552.00
10.2	Coordinate with City, MnDOT, and Watershed District. Includes one face to face meeting, 1 hour long, and one virtual one hour meetings. Includes preparation, documentation, and general correspondence.	6	2	-	-	-	-	-	-	-	8	\$1,914.00
10.3	Identify proposed ditch locations and update based on review of preliminary cross sections. Propose special ditch grades as needed to provide roadway drainage and convey runoff to proposed BMPs.	-	-	-	-	4	-	8	-	-	12	\$1,552.00

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10.4	Review soils and geological features and evaluate proposed BMP locations. Assess likelihood of impacts to groundwater.	-	-	-	-	2	-	-	-	-	2	\$300.00
10.5	Identify BMP type and locations based on water quality and quantity requirements, roadway information, and geotechnical investigation. Perform preliminary BMP sizing. Review existing design information provided by MnDOT	1	-	-	-	10	-	4	-	-	15	\$2,222.00
10.6	Develop preliminary hydraulic model for existing and proposed conditions using Hydrocad software for pond/BMP design.	1	-	-	-	12	-	24	-	-	37	\$4,902.00
10.7	Preliminary Stormwater Management Report including Drainage Overview Map (includes proposed storm drain trunk lines and significant culvert infrastructure, hydrologic boundaries, proposed BMPs, and surface flow direction.	2	-	-	-	8	-	12	-	-	22	\$3,120.00
10.8	Develop preliminary grading plan to determine pond/BMP construction limits	1	-	-	-	4	-	8	-	-	13	\$1,798.00
<u>SRF Deliverables:</u> - Preliminary Stormwater Management Report												
SUBTOTAL - TASK 10		11	2	0	0	44	0	64	0	0	121	\$17,360.00

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		Mike Turner	Casey Black	Brandon Maas (PM)	Michael Fischer	Kyle Strandberg	Dan Bielenski	Abbi Nill	Joe VanBeck			
		Aaron Vacek	Steve McHenry	Eric Hanson	Jono Cowgill	Spencer Neff	Maddie Riddle	Josephine Afshar	Jim Hoffman			
		Bob Leba	Jeremy Nielsen	Sean Jergens	Clayton Bayer	Zach Thelen	Mikaela Ziegler	Samantha Baker	Tom Richardson			
		Matt Cramer	Brett Danner		Jana Guseynova	Claire Fresmeier	John Fesenmaier	Karyna Quick	Dan Tinklenberg			
		Adrian Potter			Alex Yellick		Shaunna Newton	Eric Wurst	Jacob Ansell			
					Chris Brown							
					Brent Clark							

11.0 Final Design
Separate Tasks associated with Final Design are shown below under Tasks 11.1 - 11.7

11.1 Civil Design / Construction Documents
This task included the civil design portion of the final design along with the compilation of the complete contract documents including plan, specification an estimate. Designs for other disciplines are found in Tasks 11.2 - 11.7 below.

Assumptions:

- All work shall comply with applicable MnDOT requirements, MnDOT computer Aided Drafting and Design (CADD) standards, Technical Memoranda, and any other applicable design standards.
- Design work will be completed in the Bentley Openroads drafting platform.
- Assumes design of permanent construction to follow the selected alternative from the staff approved Preliminary Layout developed as part of Task 9.
- Design to follow applicable Minnesota Department of Transportation (MnDOT) State Aid requirements, Technical Memoranda, other applicable design standards, or approved equal.
- Submittals shall be in the digital PDF format. Final plan submittal shall include wet signed mylar title sheet and 11x17 hard copy as well as pdf.
- City of Shakopee, State Aid, Fed Aid, Scott County, & MnDOT will review plans and provide comments to plans with redline PDF's. SRF will provide comment responses.
- SRF will develop technical special provisions and project manual including bid forms.
- Watermain and Sewer improvements are not anticipated, except minor alterations to accommodate roadway revision and adding watermain irrigation services.
- Retaining walls are not anticipated
- A single set of plan comments will be received and addressed from each identified agency at each submittal.
- Cooperative Agreement Cost Participation Layout Graphic assumes 3 funding sources, including local state aid, local storm sewer, and federal regional solicitation.

Client Deliverables:

TASK NO.	TASK DESCRIPTION	PROF. VIII-VII	PROF. VI	PROF. V	PROF. IV	PROF. III	PROF. II	PROF. I	TECH.	SUPPORT	TOTALS	EST. FEE
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	- Review and comment on draft and final plans (including redlines and tabular spreadsheet) - Review and comment on draft and final cost estimates - Review and comment on draft and final special provisions - No Parking Resolutions											
11.1.1	30% Civil Design & Plan Incorporate the staff approved geometric layout design into the construction plans. Plans will include permanent finished surface cross sections, construction limits for use in establishing right of way needs, and the following sheets: - Title sheet - General layout - Index - Typical sections (Pavement Section) - Alignment plans - Topography and utility plans - Removal plans - Construction plans - Profiles	-	-	6	-	14	38	45	6	-	109	\$14,233.00
11.1.2	Submit 30% Plan (PDF) to City and receive comments. (No Issue resolution meeting at 30% Plan	-	-	2	-	2	-	-	-	-	4	\$702.00

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11.1.3	60% Civil Design and Plan Incorporate comments from the 30% Plan and develop 60% design and plan. - 30% Plan Elements + - Statement of estimate quantities (format only) - Standard plates and index of tabulation - Construction and soils notes - Earthwork summary and tabulation (format only) - In place utility tabulations - Tabulations (format only) - Standard plan sheets - Staging and traffic control plans (format only) - Alignment tabulations - Intersection details (format only) - Erosion control and turf establishment plans (format only) - Cross sections	-	-	16	-	43	108	128	15	-	310	\$40,414.00
11.1.4	60% Cost Estimate Prepare a 60% construction cost estimate using latest costing data available.	1	-	1	-	4	8	-	-	-	14	\$2,023.00
11.1.5	Submit 60% Plan PDF) and cost estimate to City, County (If necessary) and MnDOT, receive comments and hold a 60% Comment Resolution Meeting Meeting with client to discuss comments provided on the 60% submittal. (Meeting will be virtual and will be 1 hour in length for 2 SRF staff)	-	-	5	-	2	-	-	-	-	7	\$1,305.00

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11.1.6	95% Design and Plans Incorporate comments from the 60% Plan and develop 95%design and plan. - 60% Plan Elements + - Statement of estimate quantities - Earthwork tabulation and summary - Quantity Tabulations - Staging and traffic control plans (Task 11.5) - Intersection details - Drainage Plans, Profiles, and Tabulations (hours included below in Task 11.2) - Miscellaneous Details - Permanent Turf Establishment plan - Landscape / Tree Replacement / Irrigation Plans (Task 11.3) - Temporary & Permanent Erosion and Sediment Control Plans - SWPPP plans (Task 11.2) - Contour Plans - Signing and Striping Plans (Task 11.5) - Water Irrigation Service - Super Elevation Plans - Lighting Plans (Task 11.4) - Bridge Deck Revision Plans (Task 11.6)	-	-	24	-	66	170	202	24	-	486	\$63,246.00
11.1.7	95% Cost Estimate Prepare draft final cost estimate as a Microsoft Excel file.	1	-	1	-	4	8	-	-	-	14	\$2,023.00
11.1.9	95% Civil Specifications Prepare draft final construction specifications - Spec Book both as a Microsoft Word file and a PDF file. The package will include materials the City will use in bidding including the advertisement for bid.	8	-	16	-	16	-	-	-	-	40	\$7,584.00
11.1.10	Prepare a cooperative agreement cost participation layout graphic for MnDOT use in preparing the required cooperative agreement.	1	-	1	-	4	-	4	2	-	12	\$1,835.00
11.1.11	Submit 95% Plan PDF) and cost estimate to City, County (if necessary) and MnDOT District, receive comments and hold a 95% Comment Resolution Meeting Meeting with client / MnDOT to discuss comments provided on the 95% submittal.	-	-	5	-	2	-	-	-	-	7	\$1,305.00
11.1.12	Revise 95% Plan based on City, County and MnDOT District and State Aid comments.	-	-	4	-	6	14	18	2	-	44	\$5,866.00
11.1.13	Submit 95% Plan to MnDOT Central Office for review. (Required due to Trunk Highway Interaction and roundabout Inclsions.)	-	-	2	-	2	-	-	-	-	4	\$702.00

Client: City of Shakopee

Project: Marystown Road Corridor Improvements



Subconsultants: American Engineering Testing

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11.1.14	Meeting with MnDOT Central Office to discuss final plan comments and address Central Office Comments. - Includes 1.5 hour meeting for 2 SRF staff at virtual meeting, plus 1 hour of meeting agenda and documentation time and 6 hours of preparation and follow up time.	-	-	6	-	4	-	-	-	-	10	\$1,806.00
11.1.15	100% Plan Incorporate remaining 95% MnDOT & CO comments and prepare 100% Plan	-	-	2	-	4	8	10	1	-	25	\$3,324.00
11.1.16	Delegated Contract Process Checklist an Forms Complete and submit as required, DCP Checklist, Laboratory Services Request Form, No Parking Resolutions (by City), RW / Utility Relocation Certificate, Permits (See Task 12)	2	-	2	-	-	-	-	-	-	4	\$894.00
11.1.17	100% Cost Estimate Prepare final cost estimate including SEQ cost splits.	-	-	1	-	2	2	-	-	-	5	\$745.00
11.1.18	100% Civil Specifications Prepare final signed construction specifications.	2	-	4	-	2	-	-	-	-	8	\$1,596.00

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11.1.19	QA/QC SRF's QMP will be implemented at 30%, 60%, 95%, and 100% submittals.	16	-	16	-	-	-	-	-	-	32	\$7,152.00
11.1.20	Provide City with final 11"x 17" plan sheets electronically in .pdf format and one hard copy 11x17. Provide special provisions electronically in Microsoft Word and .PDF format. Provide Engineer's Opinion of Probable Construction Cost in Microsoft Excel Format.	-	-	2	-	2	-	-	-	-	4	\$702.00
	<u>SRF Deliverables:</u> - Draft and Final Construction Plans as indicated above - Draft and Final Specifications - Construction Cost Estimates - DCP Checklist - Plan Review Checklist - RW / Utility Relocation Certificate - Laboratory Testing Request Form - Cooperative Agreement Cost Participation Layout Graphic - MnDOT Central Office Plan Submittal and Meeting Materials											
	SUBTOTAL - TASK 11.1	31	0	116	0	179	356	407	50	0	1,139	\$157,457.00



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		Mike Turner	Casey Black	Brandon Maas (PM)	Michael Fischer	Kyle Strandberg	Dan Bielenski	Abbi Nill	Joe VanBeck			
		Aaron Vacek	Steve McHenry	Eric Hanson	Jono Cowgill	Spencer Neff	Maddie Riddle	Josephine Afshar	Jim Hoffman			
		Bob Leba	Jeremy Nielsen	Sean Jergens	Clayton Bayer	Zach Thelen	Mikaela Ziegler	Samantha Baker	Tom Richardson			
		Matt Cramer	Brett Danner		Jana Guseynova	Claire Fresmeier	John Fesenmaier	Karyna Quick	Dan Tinklenberg			
		Adrian Potter			Alex Yellick		Shaunna Newton	Eric Wurst	Jacob Ansell			
					Chris Brown							
					Brent Clark							

11.2 Water Resource Final DesignAssumptions:

- See preliminary drainage design assumptions.
- The project will need to meet State Aid criteria for maximum allowable spread of runoff on Marystown Rd.
- The project will need to meet the trunk highway design standards specified in Technical Memorandum 21-04-B-01 for ramps
- Marystown road will be an urban section (i.e. Curb and gutter)
- Tabs will not be separated by funding source. This information will be shown in the SEQ only.
- Separate plan, tabulation, and profile sheets
- Structural pollution control devices (SPCD) will not be required.
- Assume no pipe bid alternates
- Drainage inlets will not be required on bridge (i.e. no scupper design)

Client Deliverables:

- Review and comments of PSE

11.2.1	30% Water Resources Design and Plan Plan view of BMP with construction limits	-	-	-	-	2	-	2	-	-	4	\$538.00
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Client: City of Shakopee

Project: Marystown Road Corridor Improvements



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		Mike Turner Aaron Vacek Bob Leba Matt Cramer Adrian Potter	Casey Black Steve McHenry Jeremy Nielsen Brett Danner	Brandon Maas (PM) Eric Hanson Sean Jergens	Michael Fischer Jono Cowgill Clayton Bayer Jana Guseynova Alex Yellick Chris Brown Brent Clark	Kyle Strandberg Spencer Neff Zach Thelen Claire Fresmeier	Dan Bielenski Maddie Riddle Mikaela Ziegler John Fesenmaier Shaunna Newton	Abbi Nill Josephine Afshar Samantha Baker Karyna Quick Eric Wurst	Joe VanBeck Jim Hoffman Tom Richardson Dan Tinklenberg Jacob Ansell			
11.2.2	60% Water Resources Design and Plan Includes the design and coordination to develop the 60% plan set for agency review. Drainage Plans will include the following items: Perform storm sewer trunk line sizing. Finalize special ditch grade recommendations Review staging plans and define temporary drainage features required that affect construction limits. Complete storm water BMP design including grading and HydroCAD modeling. Verify drainage and construction easements and permanent right-of-way needed for drainage. Prepare plans to consist of the following sheets: Drainage plan sheets Storm sewer trunkline profiles Drainage Standard Details Grading plan sheets for stormwater management features Blank drainage tabulation sheet showing tab layout for future submittals. SWPPP 60% Cost estimate Perform SRF basic level QC	4	10	-	-	24	-	58	-	-	96	\$13,676.00

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11.2.3	95% Water Resources Design and Plan Includes refinement of the plan sheets as identified in the 60% design submittal. Complete storm sewer sizing. Perform design of all riprap applications. Identify existing storm sewer and culverts to be removed and coordinate inclusion on removal plans. Complete drainage plans, profiles, and details, including: Numbered drainage structures Casting assembly tabulation Special details (pond, skimmers, manholes) Pipe size, length, type and gradient for all storm sewer and culverts Grading plans for ponding areas Prepare drainage tabulation separate from profiles including: Numbered drainage structures with station and offsets, one per structure Pipe size, length, type and class for storm sewer and culverts SWPPP Pipe bedding requirements as directed by geotechnical engineer	4	18	-	-	56	-	150	-	-	228	\$31,176.00

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		Mike Turner Aaron Vacek Bob Leba Matt Cramer Adrian Potter	Casey Black Steve McHenry Jeremy Nielsen Brett Danner	Brandon Maas (PM) Eric Hanson Sean Jergens	Michael Fischer Jono Cowgill Clayton Bayer Jana Guseynova Alex Yellick Chris Brown Brent Clark	Kyle Strandberg Spencer Neff Zach Thelen Claire Fresmeier	Dan Bielenski Maddie Riddle Mikaela Ziegler John Fesenmaier Shaunna Newton	Abbi Nill Josephine Afshar Samantha Baker Karyna Quick Eric Wurst	Joe VanBeck Jim Hoffman Tom Richardson Dan Tinklenberg Jacob Ansell			
	Prepare temporary drainage information for construction staging plans. Indicate size, type, length, and elevation for all temporary pipes, and locations for all temporary drainage structures. Temporary drainage profiles will not be required. Prepare storm water-related SEQ and cost estimate. 95% Cost estimate Perform SRF basic level QC Prepare drainage related special provisions (Division S) Prepare computation submittal packages for State Aid Review including computations and drainage area map.											
11.2.4	100% Water Resources Design and Plan Includes refinement of the plan sheets and preparation of signature copies. Update drainage plans and specifications as necessary per comments received for 95% plans. Assemble final drainage computations including: Drainage area map for submittal to State Aid Storm water BMP design computations including HydroCAD model output Catch basin spacing and storm sewer design computations Perform SRF basic level QC <u>SRF Deliverables:</u> - 30%, 60%, 95%, and 100% plans and estimates - Special provisions - State Aid submittal package	1	1	-	-	4	-	10	-	-	16	\$2,255.00
	SUBTOTAL - TASK 11.2	9	29	0	0	86	0	220	0	0	344	\$47,645.00

TASK NO.	TASK DESCRIPTION	PROF. VIII-VII	PROF. VI	PROF. V	PROF. IV	PROF. III	PROF. II	PROF. I	TECH.	SUPPORT	TOTALS	EST. FEE
		Mike Turner Aaron Vacek Bob Leba Matt Cramer Adrian Potter	Casey Black Steve McHenry Jeremy Nielsen Brett Danner	Brandon Maas (PM) Eric Hanson Sean Jergens	Michael Fischer Jono Cowgill Clayton Bayer Jana Guseynova Alex Yellick Chris Brown Brent Clark	Kyle Strandberg Spencer Neff Zach Thelen Claire Fresmeier	Dan Bielenski Maddie Riddle Mikaela Ziegler John Fesenmaier Shaunna Newton	Abbi Nill Josephine Afshar Samantha Baker Karyna Quick Eric Wurst	Joe VanBeck Jim Hoffman Tom Richardson Dan Tinklenberg Jacob Ansell			
11.3	Landscape, Irrigation and Tree Replacement Final Design <u>Assumptions:</u> - Irrigation service connectin points will be within public right of way and not within Park properties, to avoid additional 4(f) / 6(f) impacts - Irrigation design will consist of a planned location of irrigation area, and specifications to allow for a contractor designed drip irrigation system for the roundabouts. - Tree prelacement will be a 1:1 for the City Project. <u>Client Deliverables:</u> - Review and comment on plan selection and landscape plans.											
11.3.1	Review preliminary geometric layout, site conditions and identify site features which may influence streetscape such as vegetation adjacent to ROW, tree removals, topography, utility locations, general land use, City code requirements, and sensitive environmental areas. Review previous City landscape projects and planning documents.	-	-	4	-	-	4	-	-	-	8	\$1,292.00
11.3.2	Identify landscape and streetscape design elements; Develop overall landscape concept plan including landscape layout, sketches, preliminary plant species list, and illustrative cross-section graphics for review and approval by City and stakeholders. Design elements considered may include: - Special median pavement - Landscape plantings - Tree replacement locations - Turf establishment areas - Roadway and pedestrian features	-	-	4	-	-	4	-	-	-	8	\$1,292.00

Client: City of Shakopee

Project: Marystown Road Corridor Improvements



Subconsultants: American Engineering Testing

16984.PP

TASK NO.	TASK DESCRIPTION	PROF. VIII-VII Mike Turner Aaron Vacek Bob Leba Matt Cramer Adrian Potter	PROF. VI Casey Black Steve McHenry Jeremy Nielsen Brett Danner	PROF. V Brandon Maas (PM) Eric Hanson Sean Jergens	PROF. IV Michael Fischer Jono Cowgill Clayton Bayer Jana Guseynova Alex Yellick Chris Brown Brent Clark	PROF. III Kyle Strandberg Spencer Neff Zach Thelen Claire Fresmeier	PROF. II Dan Bielenski Maddie Riddle Mikaela Ziegler John Fesenmaier Shaunna Newton	PROF. I Abbi Nill Josephine Afshar Samantha Baker Karyna Quick Eric Wurst	TECH. Joe VanBeck Jim Hoffman Tom Richardson Dan Tinklenberg Jacob Ansell	SUPPORT	TOTALS	EST. FEE
11.3.3	Refine the approved preferred landscape concept layout into 60% landscape and streetscape plans. Develop draft index for special provisions. Refine preliminary cost estimate based on 60% plans.	-	-	6	-	-	20	-	-	-	26	\$3,646.00
11.3.4	95% plans, specifications, and cost estimate for City review and comment.	-	-	10	-	-	36	-	-	-	46	\$6,402.00
11.3.5	100% final landscape and streetscape plans, specifications, and estimate. Incorporate final comments received into a format suitable for bid. Plans will be inserted into roadway construction plans.	-	-	8	-	-	8	-	-	-	16	\$2,584.00
11.3.6	Develop irrigation plans based on project requirements for contractor design-bid and incorporate into project plans.	-	-	2	-	-	2	-	-	-	4	\$646.00
	SRF Deliverables: - Landscape concept layout, sketches, precedent imagery and cross-sections. Summary of landscape and streetscape design items. - 60% landscape and streetscape plans, specification index, and preliminary cost estimate - 95% landscape and streetscape plans, specifications, and estimate - 100% final landscape and streetscape plans, specifications, and estimate. Incorporate final comments received into a format suitable for bid.											
	SUBTOTAL - TASK 11.3	0	0	34	0	0	74	0	0	0	108	\$15,862.00

TASK NO.	TASK DESCRIPTION	PROF. VIII-VII	PROF. VI	PROF. V	PROF. IV	PROF. III	PROF. II	PROF. I	TECH.	SUPPORT	TOTALS	EST. FEE
		Mike Turner Aaron Vacek Bob Leba Matt Cramer Adrian Potter	Casey Black Steve McHenry Jeremy Nielsen Brett Danner	Brandon Maas (PM) Eric Hanson Sean Jergens	Michael Fischer Jono Cowgill Clayton Bayer Jana Guseynova Alex Yellick Chris Brown Brent Clark	Kyle Strandberg Spencer Neff Zach Thelen Claire Fresmeier	Dan Bielenski Maddie Riddle Mikaela Ziegler John Fesenmaier Shaunna Newton	Abbi Nill Josephine Afshar Samantha Baker Karyna Quick Eric Wurst	Joe VanBeck Jim Hoffman Tom Richardson Dan Tinklenberg Jacob Ansell			
11.4	Lighting Final Design <u>Assumptions:</u> - No changes to mainline TH 169 ramp or underpass lighting - No bridge deck lighting - No Electrical conduits or connectivity across bridge will be provided. - Use same lighting unit as used on 12th Ave & Unbridled Ave. projects. - Provide photometric analysis to verify lighting levels. - Assume SPUC will design conduit, wiring and service cabinet(s) for project. SRF will design conduit for under roadway/hard surfaces. - Assume lighting is for Marystown roadway and RAB termini approaches only, no specific lighting for trail and no lighting extending along any crossroads. <u>Client Deliverables:</u> - City lighting unit to be used on the project - Review and comment on draft and final plans - Review and comment on draft and final cost estimates - Review and comment on draft and final special provisions											
11.4.1	Photometric analysis	-	4	-	-	-	-	-	14	-	18	\$3,060.00
11.4.2	60% lighting design plans w/ prelim layout & roadway conduit crossings	-	6	-	-	-	-	-	18	-	24	\$4,122.00
11.4.3	95% lighting design plan updates based on client comments, add stationing and details, prelim Div. SL	-	6	-	-	-	-	-	18	-	24	\$4,122.00
11.4.4	Final lighting design plan and Div. SL updates based on client comments	-	4	-	-	-	-	-	10	-	14	\$2,436.00
11.4.5	QA/QC	-	4	-	-	-	-	-	-	-	4	\$876.00
	<u>SRF Deliverables:</u> - Lighting analysis report - 60%, 95% and final plans - 95% and final specs - 95% and final cost estimates											
	SUBTOTAL - TASK 11.4	0	24	0	0	0	0	0	60	0	84	\$14,616.00

TASK NO.	TASK DESCRIPTION	PROF. VIII-VII	PROF. VI	PROF. V	PROF. IV	PROF. III	PROF. II	PROF. I	TECH.	SUPPORT	TOTALS	EST. FEE
		Mike Turner Aaron Vacek Bob Leba Matt Cramer Adrian Potter	Casey Black Steve McHenry Jeremy Nielsen Brett Danner	Brandon Maas (PM) Eric Hanson Sean Jergens	Michael Fischer Jono Cowgill Clayton Bayer Jana Guseynova Alex Yellick Chris Brown Brent Clark	Kyle Strandberg Spencer Neff Zach Thelen Claire Fresmeier	Dan Bielenski Maddie Riddle Mikaela Ziegler John Fesenmaier Shaunna Newton	Abbi Nill Josephine Afshar Samantha Baker Karyna Quick Eric Wurst	Joe VanBeck Jim Hoffman Tom Richardson Dan Tinklenberg Jacob Ansell			
11.5	Management of Traffic Final Design and ITS Checklists <u>Assumptions:</u> - No Overhead Sign Structures - Detour Plan for TH 169 and Marystown Rd - 2 main stages <u>Client Deliverables:</u> - Plan and Specification Review Comments											
11.5.1	Staging and Traffic Control Plans - 60%, 95%, and 100% Plans and Details - Tabulations - QA/QC - Civil Staging Hours for setup of two stages are	-	-	-	8	-	-	66	-	-	74	\$9,102.00
11.5.2	Signing and Pavement Marking Plans - 60%, 95%, and 100% Plans and Details - Tabulations - QA/QC	-	-	-	8	-	-	78	-	-	86	\$10,530.00
11.5.3	Estimate - 95%, and 100% submittals	-	-	-	2	-	-	2	-	-	4	\$550.00
11.5.4	Division ST - 95%, and 100% submittals - QA/QC	1	-	-	1	-	-	2	-	-	4	\$640.00
11.5.5	TMP & Modelling	2	-	-	18	-	-	-	-	-	20	\$3,300.00
11.5.6	ITS Plans - 60%, 95%, and 100% Plans and Details - Tabulations - QA/QC	4	-	-	16	-	-	28	-	-	48	\$6,812.00
11.5.7	ITS Checklist <u>SRF Deliverables:</u> - 60%, 95%, and 100% Staging and Traffic Control Plans - 60%, 95%, and 100% Signing and Pavement Marking Plans - Engineer's Cost Estimate at 60%, 95%, and 100% - Division ST at 95% and 100% - Transportation Management Plan (TMP) - 60%, 95%, and 100% ITS Plan and Checklist - Intersection Control Evaluation (ICE) Reports Update	1	-	-	4	-	-	-	-	-	5	\$870.00
SUBTOTAL - TASK 11.5		8	0	0	57	0	0	176	0	0	241	\$31,804.00



<u>TASK NO.</u>	<u>TASK DESCRIPTION</u>	<u>PROF. VIII-VII</u>	<u>PROF. VI</u>	<u>PROF. V</u>	<u>PROF. IV</u>	<u>PROF. III</u>	<u>PROF. II</u>	<u>PROF. I</u>	<u>TECH.</u>	<u>SUPPORT</u>	<u>TOTALS</u>	<u>EST. FEE</u>
		Mike Turner	Casey Black	Brandon Maas (PM)	Michael Fischer	Kyle Strandberg	Dan Bielenski	Abbi Nill	Joe VanBeck			
		Aaron Vacek	Steve McHenry	Eric Hanson	Jono Cowgill	Spencer Neff	Maddie Riddle	Josephine Afshar	Jim Hoffman			
		Bob Leba	Jeremy Nielsen	Sean Jergens	Clayton Bayer	Zach Thelen	Mikaela Ziegler	Samantha Baker	Tom Richardson			
		Matt Cramer	Brett Danner		Jana Guseynova	Claire Fresmeier	John Fesenmaier	Karyna Quick	Dan Tinklenberg			
		Adrian Potter			Alex Yellick		Shaunna Newton	Eric Wurst	Jacob Ansell			
					Chris Brown							
					Brent Clark							

11.6 Bridge Deck Revision Final DesignAssumptions:

- Modify Bridge 70011 per SRF Figure B-A2 (Project 13195)
 - Replace Conc. Approach Panels
 - Add 2-Type S (TL-4) 42" Conc. Barriers
 - Replace Raised Median Concrete
 - Add Ornamental Metal Railing
 - Reconstruct Expansion Joints
- Existing concrete barriers are sufficient for standard ornamental metal railing attachment w/ base plate and adhesive anchorages.
- Minor Dead Load (DL) increase results
- Addition of Pedestrian Load (PL) w/ reduction in Vehicular Live Load (LL)
- Substructures are sufficient
- New Load Rating results in sufficient structural capacity for proposed modified condition.
- Design and Plans will require coordination with the MnDOT Bridge Office and RBCE prior to approval by the State Bridge Engineer.
- Work on MnDOT facility will require a MnDOT Cooperative Construction Agreement to be acquired by the County. Coordination of the cooperative construction agreement is included other tasks (**Task 12**).

TASK NO.	TASK DESCRIPTION	PROF. VIII-VII Mike Turner Aaron Vacek Bob Leba Matt Cramer Adrian Potter	PROF. VI Casey Black Steve McHenry Jeremy Nielsen Brett Danner	PROF. V Brandon Maas (PM) Eric Hanson Sean Jergens	PROF. IV Michael Fischer Jono Cowgill Clayton Bayer Jana Guseynova Alex Yellick Chris Brown Brent Clark	PROF. III Kyle Strandberg Spencer Neff Zach Thelen Claire Fresmeier	PROF. II Dan Bielenski Maddie Riddle Mikaela Ziegler John Fesenmaier Shaunna Newton	PROF. I Abbi Nill Josephine Afshar Samantha Baker Karyna Quick Eric Wurst	TECH. Joe VanBeck Jim Hoffman Tom Richardson Dan Tinklenberg Jacob Ansell	SUPPORT	TOTALS	EST. FEE
	<u>Client Deliverables:</u> - Timely plan reviews & comments (1 round per submittal) - MnDOT Cooperative Construction Agreement											
11.6.1	MnDOT Bridge Coordination	2	6	-	-	-	-	-	-	-	8	\$1,806.00
11.6.2	30% Design & Plans - Sheets: GPE, Section, As-Built, Bridge Survey	1	2	8	-	24	-	-	36	-	71	\$11,508.00
11.6.3	60% Design & Plans - Address 30% Comments - Add Sheets: Deck Details, Barrier Details & Railing Details	1	2	8	-	24	-	-	36	-	71	\$11,508.00
11.6.4	90% Design & Plans - Address 60% Comments - Add Reinf Sheets: Deck Details, Barrier Details & Railing Details	1	2	8	-	24	-	-	36	-	71	\$11,508.00
11.6.5	100% Design & Plans - Address 90% Comments & Certify	-	2	4	-	4	-	-	4	-	14	\$2,466.00
11.6.6	Load Rating - Calculations & Form	-	-	2	-	6	-	-	20	-	28	\$4,422.00
11.6.7	Estimates - 30%, 60%, 90% & 100%	2	1	4	-	12	-	-	-	-	19	\$3,315.00
11.6.8	Special Provisions (Division SB) - 90% & 100%	1	4	16	-	-	-	-	-	-	21	\$4,338.00
11.6.9	Approach Panel Details - 60%, 90% & 100%	-	2	4	-	10	-	-	24	-	40	\$6,486.00
	<u>SRF Deliverables:</u> - Plans: 30%, 60%, 90% & Final - Load rating & form - Estimates: 30%, 60%, 90% & Final - Division SB: 90% & Final											
	SUBTOTAL - TASK 11.6	8	21	54	0	104	0	0	156	0	343	\$57,357.00

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11.7	Bidding Assistance <u>Assumptions:</u> - Bidding will occur online using QuestCDN - Notice of Award will be prepared by the city or will be included in the construction portion of the contract. <u>Client Deliverables:</u> - Submit Advertisement for Bids to local publications											
11.7.1	Prepare advertisement for bids and provide to City for submittal to required publications. Submit Ad for bid to QuestCDN for online bidding	1	-	-	-	2	-	2	-	-	5	\$784.00
11.7.2	Answer bidders questions. Includes written and oral responses.	-	-	-	-	2	-	1	-	-	3	\$419.00
11.7.3	Issue addenda if required. Assumes one addendum.	-	-	-	-	1	-	1	-	-	2	\$269.00
11.7.4	Attend online bid opening. Assumes 1 SRF staff at a 1/2 hour virtual meeting. Prepare bid recording form for attendees.	-	-	-	-	1	-	-	-	-	1	\$150.00
11.7.5	Prepare Bid Result Tabulation. (QuestCDN Generated)	-	-	-	-	-	-	2	-	-	2	\$238.00
11.7.6	Prepare letter of recommendation of award to the City.	-	-	-	-	1	-	-	-	1	2	\$282.00
	<u>SRF Deliverables:</u> - Online Bid Package (PDF and QuestCDN) - Advertisement for bids - Addenda (If necessary) - Award Recommendation											
	SUBTOTAL - TASK 11.7	1	0	0	0	7	0	6	0	1	15	\$2,142.00

TASK NO.	TASK DESCRIPTION	PROF. VIII-VII	PROF. VI	PROF. V	PROF. IV	PROF. III	PROF. II	PROF. I	TECH.	SUPPORT	TOTALS	EST. FEE
		Mike Turner	Casey Black	Brandon Maas (PM)	Michael Fischer	Kyle Strandberg	Dan Bielenski	Abbi Nill	Joe VanBeck			
		Aaron Vacek	Steve McHenry	Eric Hanson	Jono Cowgill	Spencer Neff	Maddie Riddle	Josephine Afshar	Jim Hoffman			
		Bob Leba	Jeremy Nielsen	Sean Jergens	Clayton Bayer	Zach Thelen	Mikaela Ziegler	Samantha Baker	Tom Richardson			
		Matt Cramer	Brett Danner		Jana Guseynova	Claire Fresmeier	John Fesenmaier	Karyna Quick	Dan Tinklenberg			
		Adrian Potter			Alex Yellick		Shaunna Newton	Eric Wurst	Jacob Ansell			
					Chris Brown							
					Brent Clark							

- 12.0 **Permitting and Approvals**
- Assumptions:
- RW Permit for MnDOT Utilities will be submitted separately by utility companies. A project wide RW Permit for MnDOT will not likely be required as a full Cooperative Agreement and Plan Approvals will be required.
 - A permit with the Lower Minnesota River Watershed District (LMRWD) is not required. The City of Shakopee is the stormwater permitting LGU. The City will review requirements for MnDOT drainage areas and coordinate with the LMRWD.
 - Assumes no Section 404/WCA or DNR Public Waters Work Permit required.

TASK NO.	TASK DESCRIPTION	PROF. VIII-VII	PROF. VI	PROF. V	PROF. IV	PROF. III	PROF. II	PROF. I	TECH.	SUPPORT	TOTALS	EST. FEE
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	<u>Client Deliverables:</u> - City will pay any MnDOT and Scott County Right of Way Permit Fees											
12.1	Prepare and submit Scott County Right of Way Permit application for construction of the project and new trail segment on east side of CSAH 15 south of Lusitano St.	-	-	-	-	1	-	-	-	-	1	\$150.00
12.2	~~Prepare and submit MnDOT Right of Way Permit~~ (Since a cooperative agreement will be required and full plan approvals also required, a Right of Way Permit for the City portion of the project is not anticipated to be needed.) Approval process for MnDOT is included under Task 11.	-	-	-	-	-	-	-	-	-	0	\$0.00
12.3	Prepare and submit MnDOT Utility Permit Application for irrigation and irrigation water service construction on MnDOT Right of Way.	-	-	1	-	1	-	-	-	-	2	\$351.00
12.4	Prepare NPDES online permit application and share with owner and contractor for final submittal and payment	-	-	-	-	6	-	-	-	-	6	\$900.00
	<u>SRF Deliverables:</u> - Scott County RW Permit - MnDOT Utility Permit Application (Irrigation & Irrigation Services) - NPDES Permit Application											
	SUBTOTAL - TASK 12	0	0	1	0	8	0	0	0	0	9	\$1,401.00

Client: City of Shakopee
Project: Marystown Road Corridor Improvements



Subconsultants: American Engineering Testing

16984.PP

<u>TASK NO.</u>	<u>TASK DESCRIPTION</u>	<u>PROF. VIII-VII</u>	<u>PROF. VI</u>	<u>PROF. V</u>	<u>PROF. IV</u>	<u>PROF. III</u>	<u>PROF. II</u>	<u>PROF. I</u>	<u>TECH.</u>	<u>SUPPORT</u>	<u>TOTALS</u>	<u>EST. FEE</u>
		Mike Turner	Casey Black	Brandon Maas (PM)	Michael Fischer	Kyle Strandberg	Dan Bielenski	Abbi Nill	Joe VanBeck			
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		Bob Leba	Jeremy Nielsen	Sean Jergens	Clayton Bayer	Zach Thelen	Mikaela Ziegler	Samantha Baker	Tom Richardson			
		Matt Cramer	Brett Danner		Jana Guseynova	Claire Fresmeier	John Fesenmaier	Karyna Quick	Dan Tinklenberg			
		Adrian Potter			Alex Yellick		Shaunna Newton	Eric Wurst	Jacob Ansell			
					Chris Brown							
					Brent Clark							

Software Version Deliverables

SRF will utilize the current version of the software deemed at the start of the project. SRF will assess the need to upgrade software versions based on the software vendors User License Agreement and the viable upgrade path for existing project content. In the event that a specific CAD or other software version is required per deliverables specified in a contract for services, SRF shall comply with the specified version provided that the specified version may not conflict with SRF's contractual obligation to its software vendors regarding the supported software versions at the time of delivery. In the case of conflict between contractual obligations and software vendors User License Agreement, the vendor supported version will be delivered to the client and SRF will notify the client in writing of the software version that will be utilized prior to delivery. If there are associated costs, SRF will identify the costs and the additional costs will be mutually agreed upon.

TASK NO.	TASK DESCRIPTION	PROF. VIII-VII	PROF. VI	PROF. V	PROF. IV	PROF. III	PROF. II	PROF. I	TECH.	SUPPORT	TOTALS	EST. FEE
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TOTAL ESTIMATED PERSON-HOURS		170	91	544	458	706	712	1,367	402	19	4,469	
AVERAGE HOURLY BILLING RATE		\$246	\$219	\$201	\$156	\$150	\$122	\$119	\$156	\$132		
ESTIMATED LABOR AND OVERHEAD		\$41,820	\$19,929	\$109,344	\$71,448	\$105,900	\$86,864	\$162,673	\$62,712	\$2,508		\$663,198.00
AVERAGE HOURLY BILLING RATE (DISCOUNTED)		\$224	\$199	\$186	\$142	\$136	\$111	\$108	\$142	\$120		
ESTIMATED LABOR AND OVERHEAD (DISCOUNTED)		\$38,080	\$18,109	\$101,184	\$65,036	\$96,016	\$79,032	\$147,636	\$57,084	\$2,280		\$604,457.00
SRF ESTIMATED DIRECT NON-SALARY EXPENSES												\$5,697.00
SUBTOTAL: (SRF Labor and Expenses)												\$668,895.00
SUBCONSULTANTS:												\$31,738.00
DISCOUNT (SRF Hourly Rates Discounted)												-\$58,741.00
TOTAL ESTIMATED FEE (SRF and Subconsultants combined)												\$641,892.00

ESTIMATE OF DIRECT NON-SALARY EXPENSES:												
MILEAGE:	Personal Vehicles	1400	Miles @	\$0.655								\$917.00
MEALS:		0	Meals @	\$11.00								\$0.00
LODGING:	Hotel	0	Nights @	\$100.00								\$0.00
REPRODUCTION:	Copy Duplication	150	Copies @	\$0.10								\$15.00
	Color Copies	0	Copies @	\$0.35								\$0.00
	Bond Prints	0	Prints @	\$6.00								\$0.00
	Mylar Prints	0	Prints @	\$12.00								\$0.00
COURTHOUSE COPIES:		0	Copies @	\$1.00								\$0.00
Traffic Count Processing												\$3,000.00
Website Domain												\$40.00
Website Hosting												\$1,500.00
PRINTING:												\$150.00
SUPPLIES:												\$75.00
COMMUNICATIONS:	Mail, Express, Etc.											\$0.00
	Cell Phone Charges	0	Minutes @	\$0.30								\$0.00
SRF EXPENSES:												\$5,697.00
SUBCONSULTANTS:												
American Engineering Testing (Geotechnical Evaluation & Reporting)												\$31,738.00
SUBCONSULTANTS:												\$31,738.00

TASK NO.	TASK DESCRIPTION	PROF. VIII-VII	PROF. VI	PROF. V	PROF. IV	PROF. III	PROF. II	PROF. I	TECH.	SUPPORT	TOTALS	EST. FEE
		Mike Turner Aaron Vacek Bob Leba Matt Cramer Adrian Potter	Casey Black Steve McHenry Jeremy Nielsen Brett Danner	Brandon Maas (PM) Eric Hanson Sean Jergens	Michael Fischer Jono Cowgill Clayton Bayer Jana Guseynova Alex Yellick Chris Brown Brent Clark	Kyle Strandberg Spencer Neff Zach Thelen Claire Fresmeier	Dan Bielenski Maddie Riddle Mikaela Ziegler John Fesenmaier Shaunna Newton	Abbi Nill Josephine Afshar Samantha Baker Karyna Quick Eric Wurst	Joe VanBeck Jim Hoffman Tom Richardson Dan Tinklenberg Jacob Ansell			
SUMMARY OF COSTS:		PROF. VIII-VII	PROF. VI	PROF. V	PROF. IV	PROF. III	PROF. II	PROF. I	TECH.	SUPPORT	TOTALS	
1	Project Management and Quality Control	\$ 19,926.00	\$ -	\$ 50,652.00	\$ -	\$ 8,550.00	\$ 976.00	\$ -	\$ -	\$ 2,112.00		\$82,216.00
2	Public Involvement	\$ -	\$ -	\$ 5,025.00	\$ 17,004.00	\$ -	\$ 10,736.00	\$ 4,284.00	\$ 1,248.00	\$ -		\$38,297.00
3	Right of Way (Not Used)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -		\$0.00
4	Topographic Survey	\$ -	\$ -	\$ 402.00	\$ 2,808.00	\$ 300.00	\$ 244.00	\$ 476.00	\$ 19,032.00	\$ -		\$23,262.00
5	Environmental Documentation / Wetlands	\$ -	\$ 3,285.00	\$ -	\$ 29,952.00	\$ 3,000.00	\$ 4,636.00	\$ -	\$ -	\$ -		\$40,873.00
6	Geotechnical Evaluation	\$ -	\$ -	\$ 201.00	\$ -	\$ 300.00	\$ -	\$ -	\$ -	\$ -		\$501.00
7	Utility Identification and Coordination	\$ 2,706.00	\$ -	\$ 402.00	\$ -	\$ 7,500.00	\$ -	\$ 6,069.00	\$ -	\$ 264.00		\$16,941.00
8	Traffic Forecasting and Analysis	\$ 984.00	\$ -	\$ -	\$ 8,112.00	\$ -	\$ -	\$ 23,562.00	\$ -	\$ -		\$32,658.00
9	Preliminary Design	\$ 1,476.00	\$ -	\$ 11,457.00	\$ 4,680.00	\$ 22,050.00	\$ 17,812.00	\$ 24,395.00	\$ 936.00	\$ -		\$82,806.00
10	Stormwater Management & Hydraulics Evaluation	\$ 2,706.00	\$ 438.00	\$ -	\$ -	\$ 6,600.00	\$ -	\$ 7,616.00	\$ -	\$ -		\$17,360.00
11.1	Civil Design / Construction Documents	\$ 7,626.00	\$ -	\$ 23,316.00	\$ -	\$ 26,850.00	\$ 43,432.00	\$ 48,433.00	\$ 7,800.00	\$ -		\$157,457.00
11.2	Water Resource Final Design	\$ 2,214.00	\$ 6,351.00	\$ -	\$ -	\$ 12,900.00	\$ -	\$ 26,180.00	\$ -	\$ -		\$47,645.00
11.3	Landscape, Irrigation and Tree Replacement Final Design	\$ -	\$ -	\$ 6,834.00	\$ -	\$ -	\$ 9,028.00	\$ -	\$ -	\$ -		\$15,862.00
11.4	Lighting Final Design	\$ -	\$ 5,256.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 9,360.00	\$ -		\$14,616.00
11.5	Management of Traffic Final Design and ITS Checklists	\$ 1,968.00	\$ -	\$ -	\$ 8,892.00	\$ -	\$ -	\$ 20,944.00	\$ -	\$ -		\$31,804.00
11.6	Bridge Deck Revision Final Design	\$ 1,968.00	\$ 4,599.00	\$ 10,854.00	\$ -	\$ 15,600.00	\$ -	\$ -	\$ 24,336.00	\$ -		\$57,357.00
11.7	Bidding Assistance	\$ 246.00	\$ -	\$ -	\$ -	\$ 1,050.00	\$ -	\$ 714.00	\$ -	\$ 132.00		\$2,142.00
12	Permitting and Approvals	\$ -	\$ -	\$ 201.00	\$ -	\$ 1,200.00	\$ -	\$ -	\$ -	\$ -		\$1,401.00
TOTALS		\$41,820.00	\$19,929.00	\$109,344.00	\$71,448.00	\$105,900.00	\$86,864.00	\$162,673.00	\$62,712.00	\$2,508.00		\$663,198.00

16984.PP

16984.00 WorkHourandCosts.xlsx
MINNEAPOLIS. MN

August 11, 2023



SRF Consulting Group, Inc.
3701 Wayzata Blvd, Suite 100
Minneapolis, MN 55416

Attn: Mike Turner, PE
mturner@srfconsulting.com

Re: Revised Proposal for Geotechnical Services
Marystown Road Improvements
17th Ave W to 12th Ave W
Shakopee, Minnesota
AET Proposal No. P-0025460

Dear Mr. Turner:

Thank you for the opportunity to provide a proposal for geotechnical and environmental services for the reconstruction of Marystown Road and Adams Street South between 17th Avenue West and 12th Avenue West in Shakopee, Minnesota. This proposal presents our understanding of the project, an outline of the scope of our scope of services, our anticipated schedule, and an estimate of our fees.

1.0 PROJECT INFORMATION

We understand the City of Shakopee is planning the reconstruction of Marystown Rd and Adams St S between 12th Ave W and 17th Ave W. The existing road is a 4-lane bituminous roadway, with an urban section north of US Trunk Highway (TH) 169 and a rural section south of TH 169. It will be reconstructed as a 2-lane bituminous roadway with an urban section and pedestrian trails on each side.

Additionally, the City is planning to reconstruct the intersections at Windermere Way, the TH 169 North ramps, and Vierling Drive as roundabouts. The project also consists of reconstruction of portions of the TH 169 ramps, Windermere Way, and Vierling Drive, as well as access road to the Hyvee and the park near the TH 169 north ramps.

Because Marystown Road will be reduced from 4 lanes to 2 lanes, minimal widening is planned except at the proposed roundabout locations. We also assume the proposed grade within the existing paved areas will remain generally unchanged. Finally, we assume less than 4 feet of grade change is planned within the widening areas.

Finally, the project will likely include construction of a stormwater management structure on the west side of Marystown Road adjacent to Tahpah Park. The planned bottom of pond will be between 10 and 15 feet below existing grade.

2.0 GEOTECHNICAL SCOPE OF SERVICES

Based on the RFP and our review of the available information, AET's scope includes the following:

2.1 Subsurface Exploration

- Mark the soil boring locations in the field.
- Arrange clearance of underground public utilities through the Gopher State One Call system.
- Obtain the necessary MnDOT, County, and/or City permits for drilling within the right-of-way.
- Provide traffic control during drilling of the on-road borings.

550 Cleveland Avenue North | Saint Paul, MN 55114

Phone (651) 659-9001 | (800) 972-6364 | Fax (651) 659-1379 | teamAET.com | AA/EEO

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- Perform 25 soil borings as follows:
 - 8 Standard Penetration Test (SPT) borings within the widening and trail areas to depths ranging from 6 feet to 11 feet.
 - 14 SPT borings on the existing roadways to depths of 6 feet, with pavement cores at the 3 locations along US 169 ramps.
 - 3 SPT borings to depths of 20 at the stormwater structure location.
- Backfill the boreholes and patch the on-road boring surface with bituminous cold mix.
- Document the sampled locations by using GPS equipment with submeter accuracy.

Before we drill, we will contact Gopher State One Call to locate public underground utilities. Gopher State One Call does not currently charge for this service, but they will not locate private underground utilities or structures. The marking of any private utilities must be arranged by the property owner prior to our drill crew mobilization. Please see our discussion regarding private underground utilities later in this proposal.

We will perform traffic control operations in accordance with the Minnesota Temporary Traffic Control Field Manual 2018. The on-pavement borings will generally be performed within turn lanes, shoulders, or within the outer lane of a 4-lane segment. Therefore, flaggers are not anticipated. Additionally, we assume flaggers are not needed for the off-road borings.

The borings will be drilled and sampled to these depths, or to refusal, whichever occurs first. Bedrock coring is not included within our cost estimate. If we encounter organic and/or unsuitable soils at the planned boring termination depths, we will extend that boring at least 5 feet into competent soils.

We will drill the borings using hollow stem augers, with sampling by the split-barrel method (ASTM D1586). Our crew will keep field logs noting the methods of drilling and sampling, the Standard Penetration Values (N-values, "blows per foot"), preliminary soil classification, and observed groundwater levels.

At the stormwater structure location, we will collect samples continuously at 2-foot intervals to the planned termination depth. At the remaining boring locations, we will collect samples at 2.5-foot intervals to the planned termination depths. Representative portions of recovered samples will be sealed in jars to prevent moisture loss and submitted to our laboratory for review, testing, and final classification.

We will backfill the boreholes to comply with State requirements. Even after backfilling, some sloughing of the backfill may occur, resulting in a potential tripping hazard to pedestrians. We assume the owner will backfill and repair any boreholes that may slough after our exploration is complete. AET cannot accept any liability associated with pedestrian injury.

We assume that the site is readily accessible for our all-terrain and truck-mounted drill rigs. Snow removal/plowing and tree/brush clearing to access the boring locations is not included in our scope of services.

Accessing the off-road boring locations may leave ruts in the ground. The drill crew will attempt to minimize turf damage; however, we assume that the owner will perform any site restoration work. We have not included a fee for site restoration or tree cutting in our cost estimate.

2.2 BMP Monitoring Well Installation and Sealing

At one of the soil borings performed within the proposed stormwater structure footprint, AET proposes to install a monitoring well (standpipe piezometer). The monitoring well screen bottom will be set near proposed pond bottom elevation and extending near the boring termination depth of 20 feet. The well screen will be 5 to 10 feet long, depending on proposed stormwater structure depth, and consist of No. 10 slot screen. The sand pack around the screen will be Red Flint Sand and Gravel or equivalent material. The riser pipes will be 2-inch diameter PVC. The monitoring well will have a steel protective casing (pro-top) that will stand approximately 2 to 3 feet above the ground surface. The pro-top will utilize a 6-inch diameter ASTM Schedule 40 steel pipe, 7 feet in length, and will have a locking cap.

We propose to perform water level readings at the site monthly for a total of 12 months.

AET has included fees to seal the monitoring well upon the completion of monitoring, at a time to be determined by the Owner. These fees will be valid provided the well sealing request is made within 20 months of installation. A new agreement and additional fees may be required if well sealing occurs after this 20-month period.

2.3 Laboratory Logging & Testing

We will initiate routine laboratory testing by reviewing each recovered soil sample to assess the major and minor soil components, while also noting the color, degree of saturation, and lenses or seams in the samples. Our services will include laboratory testing of selected soil samples to aid in judging engineering properties of the soils. We propose to perform moisture content tests on all cohesive soils as well as sieve and organic tests on selected samples.

On completion of testing, we will visually/manually classify the soils according to USCS and AASHTO Classification Systems. We will then prepare the final subsurface boring logs.

2.4 Geotechnical Report

Upon completion of the field exploration and soil laboratory testing, we will prepare a report which will include the following:

- Figures illustrating the final soil boring and pavement core locations.
- Pavement core logs, including a photograph of the extracted core.
- Subsurface boring logs, including thickness of the encountered pavement, aggregate base, and/or topsoil; USCS and AASHTO soil types; measured water levels; and laboratory test results.
- An outline of our understanding of the proposed construction.
- A summary of the encountered pavement sections, soil, and groundwater conditions.
- Grading procedures to construct the new alignment and widened embankments, including soil correction excavations, fill types, and compaction levels.
- Recommendations for pavement subgrade preparation, subcut, sand subbase, and drainage.
- Bituminous pavement section thickness designs based on an estimated R-value.
- Concrete section thickness designs for the single-lane roundabouts.
- Hydrologic soil group and estimated soil infiltration rates based on the soil types encountered in the BMP borings, the laboratory index testing performed, and the Minnesota Stormwater Manual, and/or pond liner recommendations for wet retention ponds, if needed.
- Comments on other items which may affect final performance or constructability, such as frost heave and drainage considerations.

3.0 SCHEDULE

Weather permitting and based on our current backlog, the geotechnical fieldwork can be completed within six to eight weeks following authorization to proceed. We anticipate the geotechnical fieldwork will take about four days to complete. We anticipate a draft geotechnical report can be submitted within two to four weeks following the field exploration. A final report can be submitted within 10 days of receiving comments on the draft report.

4.0 FEES

The scope of services defined above will be performed on a time and materials basis in accordance with the attached Fee Estimate. For the base scope of services, we have estimated the fees for each of the following tasks, which are shown in the attached Fee Estimate:

1.	Boring Layout & Utility Clearance	\$ 2,175.00
2.	Geotechnical Field Services	\$11,662.00
3.	Monitoring Well Readings	\$ 3,405.00
4.	Monitoring Well Sealing	\$ 1,193.50
5.	Traffic Control	\$ 3,000.00
6.	Soil Logging & Laboratory Testing	\$ 2,862.00
7.	Project Management & Geotechnical Report	\$ 7,440.00
	Total:	\$31,737.50

In the event the scope of our services needs to be revised, such as additional or deeper borings and additional field or laboratory testing, we will review such scope adjustments and the associated fees with you and receive your approval before proceeding. Additional services will be charged in accordance with the attached fee schedule. Our fees will be in effect for thirty days following the date of this proposal, and fees for services authorized after this expiration date will be subject to review and possible escalation.

5.0 UNDERGROUND UTILITIES

Prior to drilling, we will contact Gopher State One Call to locate public underground utilities; however, Gopher State One Call will not locate private underground utilities or structures. Examples of private utilities include, but are not limited to, propane lines, sewer laterals, sprinkler systems, site lighting, and electric and data lines between buildings. **Gopher State One Call states that the property owner is responsible for locating all private underground utilities and structures.** Please provide us with any maps, plans, and/or records showing the location of all private utilities and structures.

We can provide you with names and contact information for private utility locators. These companies usually charge a fee for their services. Also, please note that private locators cannot guarantee that all private utilities will be located. For the private locator to be accurate and effective, the property owner must provide maps, plans and records showing the location of all private utilities and structures. The property owner must also provide a knowledgeable site representative to meet with the private locator and AET personnel.

AET shall be entitled to rely upon the accuracy of all location information supplied by any source. We will not be responsible for any damage to underground utilities or structures not located or incorrectly identified by the property owner, any maps, plans or records, or public or private utility locator providers.

6.0 MINNESOTA DEPARTMENT OF HEALTH FEES

The Minnesota Department of Health (MDH) monitors borehole sealing requirements. For sites where borings are drilled to a depth of 15 feet or deeper, all licensed drilling companies are required by law to grout the boreholes upon completion. The MDH requires that a Sealing Record be submitted to the MDH, with a copy to you and the Property Owner, after the borings are completed. For borings extended to a depth of 25 feet or deeper, all licensed drilling companies must submit written notification to the MDH prior to drilling, along with a fee of \$75. Projects that span multiple properties also require multiple notifications.

The above fee estimate for our geotechnical services includes MDH fees for monitoring well installation. The MDH Notification and Sealing Record requires the Property Owner name and mailing address (the Property Owner will also receive a copy of the Sealing Record). Please provide this information below. **This information is required before we can drill.**

Property Owner's contact name, company name, and mailing address:

7.0 TERMS AND CONDITIONS

We presume our services will be performed according to a subcontract with SRF, which will be prepared and negotiated based on their prime agreement with the City following project award.

AET appreciates the opportunity to provide this service for you and looks forward to working with you on this project. If you have questions or need additional information, please contact us.

Sincerely,

American Engineering Testing, Inc.



Thomas Evans, PE (MN)
Senior Engineer
tevans@teamAET.com
Phone: (701) 690-9732



Megan J. L. Hoppe, PE (MN)
Senior Geotechnical Engineer
mhoppe@teamAET.com
Phone: (612) 685-6432

Attachments:

Fee Estimate
2023 Fee Schedule

FEE ESTIMATE
PROPOSAL FOR GEOTECHNICAL SERVICES
MARYSTOWN ROAD
SHAKOPEE, MN
AET PROPOSAL No. P-0025460



SERVICE DESCRIPTION	PROJECT BUDGET		
	ESTIMATED UNITS	UNIT RATE	BUDGET AMOUNT
<i>Layout & Utility Clearance</i>			
Project Administrator	1 hours	\$80.00	\$80.00
Drilling Technician	8 hours	\$120.00	\$960.00
Auxiliary Vehicle Rental	8 hours	\$35.00	\$280.00
Auxiliary Vehicle Mileage	120 miles	\$1.50	\$180.00
GPS Equipment	2 days	\$200.00	\$400.00
MDH Well Notification	1 each	\$275.00	\$275.00
Section Subtotal:			\$2,175.00
<i>Geotechnical Field Services and Monitoring Well Installation</i>			
Drilling Technician	56 hours	\$120.00	\$6,720.00
Auxiliary Vehicle with Coring Equipment Rental	4 hours	\$60.00	\$240.00
Truck with Drill Rig Rental	28 hours	\$110.00	\$3,080.00
Auxiliary Vehicle Rental	24 hours	\$35.00	\$840.00
Auxiliary Vehicle with Coring Equipment Mileage	60 miles	\$1.50	\$90.00
Truck with Drill Rig Mileage	240 miles	\$1.80	\$432.00
Auxiliary Vehicle Mileage	120 miles	\$1.50	\$180.00
Borehole Grouting - Bentonite Grout	40 feet	\$2.00	\$80.00
Piezometer Materials	1 each	\$600.00	\$600.00
Section Subtotal:			\$11,662.00
<i>Monitoring Well Readings</i>			
Drilling Technician	1.25 hours	\$120.00	\$150.00
Auxiliary Vehicle Rental	1.25 hours	\$35.00	\$43.75
Auxiliary Vehicle Mileage	60 miles	\$1.50	\$90.00
Section Subtotal (Per Reading):			\$283.75
Section Subtotal (12 Readings):			\$3,405.00
<i>Monitoring Well Sealing</i>			
Drilling Technician	5 hours	\$120.00	\$600.00
Auxiliary Vehicle Rental	2.5 hours	\$35.00	\$87.50
Truck with Drill Rig Rental	2.5 hours	\$110.00	\$275.00
Auxiliary Vehicle Mileage	60 miles	\$1.50	\$90.00
Tractor/Lowboy Trailer Mileage	60 miles	\$2.35	\$141.00
Section Subtotal:			\$1,193.50
<i>Traffic Control</i>			
Subcontractor (Turn Lane and Shoulder Closures)	2 days	\$1,500.00	\$3,000.00
Section Subtotal:			\$3,000.00
<i>Laboratory Logging and Testing</i>			
Classification	10 hours	\$130.00	\$1,300.00
Sieve Analysis	8 tests	\$127.00	\$1,016.00
Percent Passing #200 Sieve	6 tests	\$61.00	\$366.00
Organic Content	2 tests	\$90.00	\$180.00
Section Subtotal:			\$2,862.00
<i>Geotechnical Project Management & Reporting</i>			
Project Administrator	7 hours	\$80.00	\$560.00
Senior Engineer	28 hours	\$210.00	\$5,880.00
Principal Engineer	4 hours	\$250.00	\$1,000.00
Section Subtotal:			\$7,440.00
ESTIMATED BUDGET			\$31,737.50

I. Personnel Hourly Rates

A. Project Administrator	80.00/hr.
B. Engr. or Env. Technician I	95.00/hr.
C. Engr. or Env. Technician II	110.00/hr.
D. Drill Technician/Geo Lab Technician	120.00/hr.
E. Engr. or Env. Technician III	130.00/hr.
F. Engineering Assistant	150.00/hr.
G. Engineer I/Geologist I	160.00/hr.
H. Senior Engineering Assistant	160.00/hr.
I. Engineer II/Geologist II	180.00/hr.
J. Senior Engineer/Geologist	210.00/hr.
K. Principal Engineer/Geologist	250.00/hr.
L. Principal of Firm	280.00/hr.

II. Vehicle Mileage

A. Personal Automobile/Truck	1.25/mile
B. Auxiliary Vehicle Mileage	1.50/mile
C. Truck with Warning Sign/Crash Trailer	1.60/mile
D. Truck with Drill Rig	1.80/mile
E. CPT Truck Rig (20-ton push capacity)	2.10/mile
F. Tractor/Lowboy Trailer	2.35/mile

III. Equipment Rental

A. Drill Rig Rental	
1. Rotary Drill on Truck	110.00/hr.
2. Rotary Drill on All-Terrain Vehicle	144.00/hr.
3. Portable, Non-rotary Rig	107.00/hr.
B. Auxiliary/Specialty Vehicle and Equipment Rental	
1. Auxiliary Truck Vehicle	35.00/hr.
2. Truck with Warning Sign/Crash Trailer	52.00/hr.
3. Coring Equipment	60.00/hr.
C. Cone (CPT) Rig/Equipment Rental	
1. CPT Rig (Truck or ATV)	188.00/hr.
2. Electronic Cone w/Computer	57.75/hr.
3. Soil Sampler	9.35/hr.
4. Water Sampler	25.25/hr.
D. Miscellaneous Equipment Rental	
1. Field Vane Shear	385.00/day
2. Field Electrical Resistivity	308.00/day
3. Field Seismic Shear Wave (ReMi)	500.00/day
4. Inclinator Reading Equipment	400.00/day
5. Electronic Transducer Reading	209.00/day
6. Bore Hole Permeability	
a. Open End Casing Method	161.50/day
b. HQ Wireline Packer	404.25/day
7. Borehole Pressuremeter	93.50/hr.
8. Iowa Borehole Shear Tester	385.00/day
9. Double Ring Infiltrometer	320.00/day
10. MPD Infiltrometer	320.00/day
11. GPS Mapping System	200.00/day
12. Pile Driving Analyzer (PDA)	787.50/day
13. Calibrated SPT Rod	264.00/day
14. Pile Integrity Test (PIT)	420.00/day
E. Geotechnical Software Rental	
1. Geo Studio Finite Element	99.00/hr.
2. CAPWAP	53.00/hr.
3. Wave Equation (WEAP)	40.00/hr.
4. LPILE or GROUP	40.00/hr.
5. Slope Stability (ReSSA)	40.00/hr.
6. Stabilized Earth Slopes & Walls	40.00/hr.
7. Settlement (FoSSA)	40.00/hr.
F. Bit Wear- Rock Coring	
1. Diamond Bit - Sedimentary Rock	
a) B, HQ, NQ	18.75/foot
2. Diamond Bit - Metamorphic & Igneous	
a) B, HQ, NQ	28.50/foot

IV. Laboratory Tests of Soil

A. Water Content	15.00/test
B. Dry Density (includes water content)	90.00/test
C. Atterberg Limits (ASTM:D4318)	
1. Plasticity Index	141.00/test
2. Liquid Limit or Plastic Limit Separately	126.00/test
D. Sieve Analysis (includes -#200)	130.00/test
E. Materials Finer than #200 Sieve	65.00/test
F. Hydrometer Analysis (sieve included)	250.00/test
G. Thermal Resistivity w/Proctor (ASTM:D5334)	
1. As Received and Oven Dried (2 pts)	1050.00/test
2. Dry Out Curve (4 pts)	1305.00/test
H. Electrical Resistivity	
a) ASTM:G57 or G187	124.00/test
b) AASHTO T 288	245.00/test
I. Corrosion/Concrete Attack Series*	price upon request
J. Consolidation (up to 32 tsf)	
1. With P-e curves only	590.00/test
2. With P-e curves, time curves	725.00/test
J. Unconfined Compression (incl. wc/density)	127.00/test
K. Hand Penetrometer	17.50/test
L. Organic Content of Soil	115.00/test
M. Topsoil Borrow Test (Mn/DOT 3877)	325.00/test
N. R-value (Hveem Stabilometer)	470.00/test
O. California Bearing Ratio	
1. Granular	750.00/test
2. Cohesive	855.00/test
P. Proctor Tests (Methods A or B)	
1. Standard	175.00/test
2. Standard (Cohesive)	200.00/test
3. Modified	180.00/test
4. Modified (Cohesive)	200.00/test
Q. Thin-Walled Tube Samples	
1. Sample Extrusion	27.50/each
2. Sampler Replacement	30.00/each

*includes pH, chloride ion, soluble sulfates, sulfides, redox potential (resistivity not included).

V. Expenses

A. Borehole Grouting – Bentonite Grout	2.00/foot
B. Borehole Grouting – Neat Cement Grout	10.00/foot
C. Direct Project Expenses: includes out-of-town per diem; plowing & towing; special materials & supplies; special travel, transportation & freight; subcontracted services, and miscellaneous costs	Cost + 15%
D. Equipment Replacement (when abandonment is more feasible than recovery)	Cost
E. Equipment Recovery (when required by regulatory agencies or project specifications)	Cost + 15%

The rates presented are portal-to-portal with vehicle mileage, expenses and equipment rentals being additional.

Overtime for personnel charged at above cost plus 25% for over 8 hours per day or Saturday; and at above cost plus 50% for Sundays or Holidays. Hazardous work charged at an additional 25%. Night time shift work will include a premium charge of \$30.00 per person per shift.