

June 15, 2021

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**Kevin Slovarp**  
City Engineer  
City of Missoula  
435 Ryman Street  
Missoula, MT 59802

Re: Lower Miller Creek Road Reconstruction Project, Linda Vista Blvd. to Bigfork Road  
City Project No. 2019-010 Amendment Request #1

Dear Kevin:

WGM Group, Inc. is pleased to provide this amended scope of services proposal to continue our assistance to the City of Missoula with the Lower Miller Creek Road project. We understand that the City desires additional services to those scoped within WGM's letter dated September 11, 2019. WGM's goal is to provide efficient and effective services for the City, and offers the following service amendments for the City's consideration.

#### **SCOPE OF SERVICES AMENDMENT**

##### **Project Management \$5,982**

As identified in our original contract, the schedule for this project was intended to be compressed to four months. With the extension of the project to a 2024 letting comes additional project management efforts in the form of meetings, correspondence, budgeting, and progress reports.

##### **Asphalt Coring (Completed) \$2,038**

At the request of the City, WGM worked with Tetra Tech in February and March of 2020 to obtain asphalt cores of the existing pavement sections on Lower Miller Creek Road. Tetra Tech analyzed the cores to gauge the feasibility of milling and overlaying the existing pavement sections rather than reconstructing the road. The results and recommendations of this analysis were included in their Final Geotechnical Report submitted on May 1, 2020. The following tasks were included:

- Three asphalt cores and associated traffic control
- CPT testing in core holes to obtain existing subgrade CBR data
- Incorporation of Mill and Overlay recommendation into Final Geotechnical Report

Deliverables: Core Pictures, Existing Subgrade CBR, and Mill and Overlay Recommendations

##### **Storm Drain Design and Documentation \$12,381**

New events have occurred since the project's original scoping that change the level of effort required to design the storm water facilities for the project. WGM's original storm water design scope was based upon the use of drywell sumps to collect and treat runoff within the right-of-way. Subsequent analysis revealed that groundwater is too high and that soil infiltration rates are too low to support the

use of sumps, therefore a storm drain system to collect and convey runoff is required. Further, a new opportunity with an adjacent development at 6525 Miller Creek Road will allow a collaborative effort to use an offsite outfall and treatment facility that is shared by both projects. Finally, the City's new Public Works Standards and Specifications Manual (PWSSM), released in November 2020, has also changed the storm water design process and added new requirements. The following additional services are included in this scope amendment:

- Development of preliminary peak runoff flows for the subject project to coordinate pipe sizing for the offsite system being designed by Woith Engineering (completed)
- Final storm drain plans, profiles, and details
- Identification of utility conflicts caused by storm drain piping
- Hydrologic and hydraulic calculations for storm drain sizing and layout
- Storm drainage report per the City PWSSM
- Coordination of final storm drain connection point with Woith Engineering

Deliverables: Storm drain plans, storm drainage report

Exclusions: WGM understands that the design of peak flow attenuation and water quality treatment facilities is not required because they will be provided by the offsite facility.

### **Roundabout Analysis and Design**

**\$16,004**

Due to adjacent development along Old Bitterroot Road, the City requested WGM to perform multiple iterations of laying out a roundabout at the intersection of Lower Miller Creek Road and Old Bitterroot Road to analyze right-of-way impacts, utility impacts, and performance metrics such as fastest paths through each roundabout. Through coordination with the City and an adjacent developer, a preferred alternative was selected that will require relocating the large NorthWestern Energy transmission line while mitigating right-of-way impacts to the property on the southeast corner of the intersection (4980 Lower Miller Creek Road). This amendment aims to recoup the cost of this analysis and incorporate future design efforts into the remaining project scopes. The following additional services are included in this scope amendment:

- Preliminary roundabout layout and analysis of alternatives (completed)
- Continued coordination with adjacent developer on intersection geometrics
- Incorporate preferred alternative into plans through the following plan additions:
  - Roundabout geometric layout sheets
  - Roundabout specific curb, splitter island, bicycle lane transitions, pedestrian crossing, electrical, and signing and striping details
  - Roundabout grading details (final plans)

Deliverables: Incorporation of the desired mini-roundabout at the intersection of Lower Miller Creek Road and Old Bitterroot Road into the 60% plans and subsequent 90% Stage 3 plans submittal.

### **ADDITIONAL SERVICES**

Services not specifically described in the tasks above are not included in this scope of work. WGM would be happy to provide estimates for any additional services at the time they are identified.

### **FEE ESTIMATE**

Our fees will be billed on a time and materials basis with a total cost not to exceed the total listed below for the work described herein without a supplemental agreement. Fees are valid through August 2022 and may need to be adjusted if the project extends beyond this date. A project cost summary to date is provided below.

<b>COST SUMMARY</b>	
Project Management	\$5,982
Asphalt Coring	\$2,038
Storm Drain Design and Documentation	\$12,381
Roundabout Analysis and Design	\$16,004
<b>TOTAL COST FOR AMENDMENT #1</b>	<b>\$36,405</b>
Lower Miller Creek Scope (effective 9/11/2019)	\$126,894
<b>TOTAL REVISED PROJECT BUDGET</b>	<b>\$163,299</b>

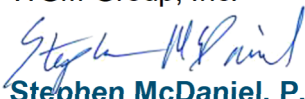
### **SCHEDULE**

We are prepared to begin the work described herein immediately upon receipt of a signed contract. We anticipate a rapid schedule and continued coordination with Woith Engineers and submittal of our 60% plans by July 16, 2021. Our previously scoped second public meeting should follow approval of 60% plans and the determination of project funding.

### **CLOSING**

Thank you for the opportunity to continue to provide these services and we look forward to working with you on this project. If you have any questions or if you feel that any portion of this proposal needs revision, please feel free to contact us. If the approach described herein meets your needs, please send us your standard contract agreement for our review and signature.

Sincerely,  
WGM Group, Inc.

  
**Stephen McDaniel, P.E.**  
Project Manager

SMM:aes

## Professional Services Estimate

Project Name: Lower Miller Creek Road Reconstruction

Project #: 19-03-18

Client: City of Missoula

Date: 5/27/2021



DIRECT LABOR	Phase 01		Phase 02		Phase 03		Phase 04		Phase 05		Phase 06		Phase 07		TOTAL	
	PROJECT MANAGEMENT		PUBLIC INVOLVEMENT		SURVEY SERVICES / ROW RESOLUTION		GEOTECHNICAL ANALYSIS (Tetra Tech)		ELECTRICAL (HDR)		DESIGN DEVELOPMENT		FINAL DESIGN			
	Hours	Total \$	Hours	Total \$	Hours	Total \$	Hours	Total \$	Hours	Total \$	Hours	Total \$	Hours	Total \$	Hours	Total \$
Principal Engineer	6	\$1,050									2	\$350			8	\$ 1,400
Sr Project Engineer																
Sr Traffic Engineer									6	\$972					6	\$ 972
Project Engineer	36	\$4,932							1	\$137	66	\$9,042	48	\$6,576	151	\$ 20,687
Staff Engineer/EI											28	\$3,388			28	\$ 3,388
Sr CADD Drafter									2	\$232	26	\$3,016	38	\$4,408	66	\$ 7,656
Admin. Assistant																
<b>TOTAL LABOR</b>	<b>42</b>	<b>\$ 5,982</b>		<b>\$ -</b>		<b>\$ -</b>		<b>\$ -</b>	<b>9</b>	<b>\$ 1,341</b>	<b>122</b>	<b>\$ 15,796</b>	<b>86</b>	<b>\$ 10,984</b>	<b>259</b>	<b>\$ 34,103</b>

DIRECT EXPENSES	Phase 01	Phase 02	Phase 03	Phase 04	Phase 05	Phase 06	Phase 07	TOTAL
Sub-consultants	-	-	-	2,038.00	-	-	-	\$ 2,038.00
Copies / Prints	-	-	-	-	-	-	-	\$ -
Mileage	-	-	-	-	-	-	-	\$ -
Lodging / Per Diem	-	-	-	-	-	-	-	\$ -
Fees / Permits	-	-	-	-	-	-	-	\$ -
Survey Equipment	-	-	-	-	-	-	-	\$ -
Technology Fee	-	-	-	-	8.00	104.00	152.00	\$ 264.00
Other	-	-	-	-	-	-	-	\$ -
<b>TOTAL DIRECT EXPENSES</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 2,038.00</b>	<b>\$ 8.00</b>	<b>\$ 104.00</b>	<b>\$ 152.00</b>	<b>\$ 2,302.00</b>

SUMMARY	Phase 01	Phase 02	Phase 03	Phase 04	Phase 05	Phase 06	Phase 07	TOTAL
<b>Hours</b>	42.0				9.0	122.0	86.0	259.0
<b>Labor</b>	\$ 5,982.00	\$ -	\$ -	\$ -	\$ 1,341.00	\$ 15,796.00	\$ 10,984.00	\$ 34,103.00
<b>Expenses</b>	\$ -	\$ -	\$ -	\$ 2,038.00	\$ 8.00	\$ 104.00	\$ 152.00	\$ 2,302.00
<b>TOTAL</b>	<b>\$ 5,982.00</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 2,038.00</b>	<b>\$ 1,349.00</b>	<b>\$ 15,900.00</b>	<b>\$ 11,136.00</b>	<b>\$ 36,405.00</b>