

					of Servi									
PROJECT NAME: Missoula Water - East Front Street Replacement			\$80	\$100	\$100	\$115	\$145	\$160	\$160	\$125	\$190	DATE:		July 7, 202
200 S	eries - Field Work & Surv	eying	A stars in				Project		o. <i>4</i>			IMEG	Direct	Agency Review Fee
200	Project Management	IMEG project meetings, schedule, and project coordination associated with this	Admin	CAD	Technician	Production	Manager 2	Senic	r Staff	Surve	y Crew	Services	Expenses	Review Fee
200	Froject Management	portion of work.					2					\$ 290.00		
202	General Site Visit	Engineering staff member to walk site to review mapping and get general			6	1								
		understanding of topography and existing features. Assumes time included to										\$ 715.00		
241	Limited R/W Survey &	research and dip storm and sanitary sewer mains in the project area. IMEG will request a utility locate five business days prior to the survey crew being	2	10			4		6	26	10	\$ 715.00		
	Utility/Topographic	on site. The visible, above ground utilities and respective underground utility	2	10			7		Ū	20	10			
	Mapping	locations will be tied by the survey crew for future placement on to the site map.												
		Time included for a drafter to reduce the mapping into a site map. IMEG survey												
		crews will visit the site and ties structures, improvements, cultural features and												
		ground elevations sufficient to create an accurate map of the site. Contours will be												
		generated at one-foot intervals based upon the collected data, creating a surface suitable for design. Cultural features include, but are not limited to: mail boxes,												
		utility lines, fences, power poles, wells, pathways, driveways and signs. Mapping												
		will be completed and referenced to the Montana State Plane coordinate system												
		and the vertical datum will be referenced to NAVD88. In addition to topographic												
		features, limited R/W ties will be made to existing monumentation & surveys/plats												
		of record. Mapping information will be depicted in relation to the R/W. Survey												
		control will also be placed in areas out of the construction area that can be used												
		during the construction staking phase of the project. Assumes 4 days of survey crew field work. Project survey area is additional areas within East Broadway and												
		strip mapping west of the Press Box.										\$ 7,850.00	\$ 400.00	
		Series 200 Total	2	10	6	1	6	0	6	26	10	\$ 7,850.00	\$ 400.00 \$ 400.00	\$ -
00 S	eries - MDEQ: Application	ns, Sewer Designs; Water Designs; Subdivision Drainage Design	-	10	Ű		Project	0	Ū	20	10	IMEG	Direct	Agency
			Admin	CAD	Technician	Production	Manager	Senio	r Staff	Surve	y Crew	Services	Expenses	Review Fee
	Project Management	IMEG project meetings, schedule, and project coordination associated with this portion of work.					4					\$ 580.00		
575	DEQ 1 Water System,	Develop the water system collection maps for this vicinity and gather hydrant test										φ 300.00		
	Report - Exhibits				2	1						\$ 300.00		
	Report - Exhibits	data. Assumes that Missoula Water will provide the hydrant test data to IMEG if			2	1								
577	•	data. Assumes that Missoula Water will provide the hydrant test data to IMEG if needed.			2	1						\$ 315.00		
577	DEQ 1 Water System, Report - Produce	data. Assumes that Missoula Water will provide the hydrant test data to IMEG if			2	1								
	DEQ 1 Water System, Report - Produce DEQ 1 Water System,	data. Assumes that Missoula Water will provide the hydrant test data to IMEG if needed. No additional budget provided. Assumes previously provided scope covers this item. Complete Construction Plans will be prepared depicting plan and profile of the		32	2	6	3					\$ 315.00		
	DEQ 1 Water System, Report - Produce DEQ 1 Water System, Construction Plans -	data. Assumes that Missoula Water will provide the hydrant test data to IMEG if needed. No additional budget provided. Assumes previously provided scope covers this item. Complete Construction Plans will be prepared depicting plan and profile of the water main replacement for the following areas: East Front Street from Jackson		32	2	1	3					\$ 315.00		
	DEQ 1 Water System, Report - Produce DEQ 1 Water System,	data. Assumes that Missoula Water will provide the hydrant test data to IMEG if needed. No additional budget provided. Assumes previously provided scope covers this item. Complete Construction Plans will be prepared depicting plan and profile of the water main replacement for the following areas: East Front Street from Jackson through Van Buren to East Broadway, new service connections off East Broadway		32	2	6	3					\$ 315.00		
	DEQ 1 Water System, Report - Produce DEQ 1 Water System, Construction Plans -	data. Assumes that Missoula Water will provide the hydrant test data to IMEG if needed. No additional budget provided. Assumes previously provided scope covers this item. Complete Construction Plans will be prepared depicting plan and profile of the water main replacement for the following areas: East Front Street from Jackson through Van Buren to East Broadway, new service connections off East Broadway and abandoment of additional main in East Broadway. The plans will include water		32	2	6	3					\$ 315.00		
	DEQ 1 Water System, Report - Produce DEQ 1 Water System, Construction Plans -	data. Assumes that Missoula Water will provide the hydrant test data to IMEG if needed. No additional budget provided. Assumes previously provided scope covers this item. Complete Construction Plans will be prepared depicting plan and profile of the water main replacement for the following areas: East Front Street from Jackson through Van Buren to East Broadway, new service connections off East Broadway and abandoment of additional main in East Broadway. The plans will include water main with valves, bends, blow-off, services, and fire hydrant. Includes one		32	2	6	3					\$ 315.00		
	DEQ 1 Water System, Report - Produce DEQ 1 Water System, Construction Plans -	data. Assumes that Missoula Water will provide the hydrant test data to IMEG if needed. No additional budget provided. Assumes previously provided scope covers this item. Complete Construction Plans will be prepared depicting plan and profile of the water main replacement for the following areas: East Front Street from Jackson through Van Buren to East Broadway, new service connections off East Broadway and abandoment of additional main in East Broadway. The plans will include water		32	2	6	3					\$ 315.00		
580	DEQ 1 Water System, Report - Produce DEQ 1 Water System, Construction Plans - Plan/Profile	data. Assumes that Missoula Water will provide the hydrant test data to IMEG if needed. No additional budget provided. Assumes previously provided scope covers this item. Complete Construction Plans will be prepared depicting plan and profile of the water main replacement for the following areas: East Front Street from Jackson through Van Buren to East Broadway, new service connections off East Broadway and abandoment of additional main in East Broadway. The plans will include water main with valves, bends, blow-off, services, and fire hydrant. Includes one solicitation of preliminary review from system Owner. Assumes up three additional		32	2	6	3					\$ 315.00		
580	DEQ 1 Water System, Report - Produce DEQ 1 Water System, Construction Plans - Plan/Profile DEQ 1 Water System,	data. Assumes that Missoula Water will provide the hydrant test data to IMEG if needed. No additional budget provided. Assumes previously provided scope covers this item. Complete Construction Plans will be prepared depicting plan and profile of the water main replacement for the following areas: East Front Street from Jackson through Van Buren to East Broadway, new service connections off East Broadway and abandoment of additional main in East Broadway. The plans will include water main with valves, bends, blow-off, services, and fire hydrant. Includes one solicitation of preliminary review from system Owner. Assumes up three additional sheets will be required for plan and profile.Assumes boring through East Broadway. Time included for additional detail sheets due to project expansion. Assumes 2		32	2	6	3					\$ 315.00 \$ -		
580	DEQ 1 Water System, Report - Produce DEQ 1 Water System, Construction Plans - Plan/Profile DEQ 1 Water System, Construction Plans -	data. Assumes that Missoula Water will provide the hydrant test data to IMEG if needed. No additional budget provided. Assumes previously provided scope covers this item. Complete Construction Plans will be prepared depicting plan and profile of the water main replacement for the following areas: East Front Street from Jackson through Van Buren to East Broadway, new service connections off East Broadway and abandoment of additional main in East Broadway. The plans will include water main with valves, bends, blow-off, services, and fire hydrant. Includes one solicitation of preliminary review from system Owner. Assumes up three additional sheets will be required for plan and profile.Assumes boring through East Broadway.			2	6	3					\$ 315.00 \$ - \$ 4,325.00		
580	DEQ 1 Water System, Report - Produce DEQ 1 Water System, Construction Plans - Plan/Profile DEQ 1 Water System, Construction Plans - Details	data. Assumes that Missoula Water will provide the hydrant test data to IMEG if needed. No additional budget provided. Assumes previously provided scope covers this item. Complete Construction Plans will be prepared depicting plan and profile of the water main replacement for the following areas: East Front Street from Jackson through Van Buren to East Broadway, new service connections off East Broadway and abandoment of additional main in East Broadway. The plans will include water main with valves, bends, blow-off, services, and fire hydrant. Includes one solicitation of preliminary review from system Owner. Assumes up three additional sheets will be required for plan and profile.Assumes boring through East Broadway. Time included for additional detail sheets due to project expansion. Assumes 2 additional sheets will be added.			2	6	3					\$ 315.00 \$ -		
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Image Process Management Image Management	Staff Survey Crew IMEG Direct Agency Services Expenses Review Fees	r Staff	Senio	Project Manager	Production	Technician	CAD	Admin	es - Construction Administration, Inspections, and Staking	800 Ser
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Computations & Crew Prop approved plans for the Water Main alignment including: beginning and end of plan. Prop Solution	\$ 830.00				2	6				815 0
Construction Staking and the perinden and beginning and a beginning and a beginning and and provided and systems and and beginning and and provided and systems and provided scope. MEG will provide construction or essure concretions including testing on patch baschardia comparison and provided scope. MEG will provide construction or essure and testing on patch baschard construction provided scope. MEG will be black will be provided scope cover this provided scope cover this prover. Insertions will be documented and included in final close-out documents for project. Assumes previously provided scope cover this be documented and included in the project. Insertions will be documented and included in the project. Insertions will be documented and included in the project. Insertions will be documented and included in the project. Assumes previously provided scope cover this testing. 875 Centificate of Substantial Comparison of the water is a provided scope cover this testing. 875 Centificate of Substantial Comparison of the provided scope cover this testing. 876 Centificate of Substantial Comparison of the provided scope cover this testing. 875 Centificate of Substantial Comparison of the provided scope cover this testing. 876 Centificate of Substantia		1				2			approved plans for the Water Main alignment including: beginning and end of pipe connections, horizontal and vertical bends, valves, tees, blow offs, air reliefs, hydrants, and the locations of the water service connection at the main. Draftsmar will then compile a list of design points and prepare a survey point's exhibit. Time included for an Engineer to check the calculated points, prepare cut sheets and provide Survey Crew instructions. Once stakes are placed, the Engineer will review Survey Crew field notes and "as-staked" data for accuracy and, if necessary, complete cut sheet for distribution to Contractor. Cut sheets will	C
871 Construction Inspection and Material Testing Assumes Amendment Scope will add 4 additional weeks to previously provided scope. IMEG will provide construction oversight in order to ensure Contractor is completing project in substantial compliance with the Plans and Specifications. IMEG will sub consult with a local geotechnical engineering and material testing firm to completing project in substantial compliance with the Plans and Specifications. IMEG will sub consult with a local geotechnical engineering and material testing firm to completing project in substantial compliance with the Plans and Specifications. IMEG will sub consult with a local geotechnical engineering and material testing. Inspections budgeted the MEG contract as a reimbursable expense. Assumes asphalt testing on patch back will be construction period. Reimbursable expense in orrore than 4 weeks from the main replacement and service connections including testing. Inspections budgeted not wisits per day during the 4 week construction period. Reimbursable expense included for bacteria testing. No additional budget provided. Assumes previously provided scope cover this item. No No 6 91 21 13 0 1.5 0 8 5,760.00 \$ 3,000.00 800 Series 800 Total 0 6 91 21 13 0 1.5 0 8 \$ 5,760.00 \$ 3,200.00 \$ \$ 3,000.00 \$ \$ 3		0.5		2		3			per the approved design plans. Assumes stakes will be needed at 25 foot intervals along station, and at beginning and end of pipe, connections, horizontal or vertical bend, valves, tees, blow offs, air reliefs, hydrants, and the location of the water service connections at the main. Stakes will be provided at offsets and assumes that work can be completed in one visit. Crew will collect "as-staked" information for verification of stake accuracy. Assumes two blocks will be staked at a time, so	
875 Certificate of Substantial Completion and Final Walkthrough No additional budget provided. Assumes previously provided scope cover this item. No additional budget provided. Assumes previously provided scope cover this item. Image: Second Staff Image: Second Staff Staff Staff Staff Staff Staff Staff Staff Direct Expenses R 900 Series - Final Project Documentation Image: Second Staff Survey Crew Staff <td< td=""><td>\$ 10,450.00 \$ 3,000.00</td><td></td><td></td><td>5</td><td>15</td><td>80</td><td></td><td></td><td>d Material Testing provided scope. IMEG will provide construction oversight in order to ensure Contractor is completing project in substantial compliance with the Plans and Specifications. IMEG will sub consult with a local geotechnical engineering and material testing firm to complete Client's Quality Assurance testing. Sub consulting fees will be billed under the IMEG contract as a reimbursable expense. Assumes asphalt testing on patch back will occur on this project. Inspections will be documented and included in final close-out documents for project. Assumes no more than 4 weeks from start to finish for the main replacement and service connections including testing. Inspections budgeted at two visits per day during the 4 week construction period. Reimbursable expense included for bacteria</td><td></td></td<>	\$ 10,450.00 \$ 3,000.00			5	15	80			d Material Testing provided scope. IMEG will provide construction oversight in order to ensure Contractor is completing project in substantial compliance with the Plans and Specifications. IMEG will sub consult with a local geotechnical engineering and material testing firm to complete Client's Quality Assurance testing. Sub consulting fees will be billed under the IMEG contract as a reimbursable expense. Assumes asphalt testing on patch back will occur on this project. Inspections will be documented and included in final close-out documents for project. Assumes no more than 4 weeks from start to finish for the main replacement and service connections including testing. Inspections budgeted at two visits per day during the 4 week construction period. Reimbursable expense included for bacteria	
900 Series - Final Project Documentation Admin CAD Technician Project Manager Senior Staff Survey Crew IMEG Services Direct Expenses R 911 Construction As-Builts - Water IMEG will utilize field notes and photos to prepare as-built plans for certification of the water main replacement. 1 0.5 1 0.5 1 1 \$ 387.50 1 1 1 \$ 387.50 1 </td <td>\$ -</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>ertificate of Substantial No additional budget provided. Assumes previously provided scope cover this bompletion and Final item.</td> <td>C</td>	\$ -								ertificate of Substantial No additional budget provided. Assumes previously provided scope cover this bompletion and Final item.	C
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911 Construction As-Builts - Water IMEG will utilize field notes and photos to prepare as-built plans for certification of the water main replacement. Other of the water main replacement. Other of the water main replacement. 914 Construction Certifications - Water(DEQ & Stage 6) IMEG will utilize field notes and photos to prepare as-built plans for submittal to DEQ for certification as-built plans for submittal to DEQ for certification of the project. Time included for IMEG to complete the City of Missoula Stage 6 Checklist submittal. It is assumed that Stage 5 submittal is not needed as the City will be involved through the Construction phase of this project. 2 2 1 1 S Image: Construction integer (Construction integer) S 387.50 Image: Construction integer (Construction integer) Construction integer (Construction integer) Image: Construction integer (Construction integer) Construction integer Constru		r Staff	Senio		Production	Technician	CAD	Admin	es - Final Project Documentation	900 Ser
914 Construction Certifications - Water(DEQ & Stage 6) (insoula Stage 6 Checklist submittal. It is assumed that Stage 5 submittal is not needed as the City will be involved through the Construction phase of this project.			Conio		1		O/ D			
				1	1	2	2		IMEG will assemble the construction plans, photos, testing results, submittals and a short summary report with the construction as-built plans for submittal to DEQ for certification of the project. Time included for IMEG to complete the City of Missoula Stage 6 Checklist submittal. It is assumed that Stage 5 submittal is not	914 (
Series 900 Total 0 2 4 2 1.5 0 0 0 \$ \$ \$ - \$	0 0 0 \$ 1,047.50 \$ - \$ -	0	0	1.5	2	4	2	0	Series 900 Tota	

Project Summary			Technician	Production	Project Manager	Senior Staff		Survey Crew		IMEG	Direct	Agency		
Item No Description	Admin	Lead Drafter	El/Other	PE/EI	PE	PE	PLS	GPS	Total Station	Services	Expenses	Review Fees		
100 Series - Preliminary Project Assessment and Planning	0	0	0	0	0	0	0	0	0	\$-	\$-	\$-		
200 Series - Field Work & Surveying	2	10	6	1	6	0	6	26	10	\$ 8,855.00	\$ 400.00	\$-		
500 Series - MDEQ: Applications, Sewer Designs; Water Designs; Subdivision Drainage Design	0	38	2	8	8	0	0	0	0	\$ 6,080.00	\$ -	\$-		
800 Series - Construction Administration, Inspections, and Staking	0	6	91	21	13	0	1.5	0	8	\$ 15,760.00	\$ 3,200.00	\$-		
900 Series - Final Project Documentation	0	2	4	2	1.5	0	0	0	0	\$ 1,047.50	\$-	\$-		
1000 Series - 5% Additional Services - TBD By City's Project Manager										\$ 1,550.00				
Total Consulting and Reimbursable to Obtain Approvals	2	56	103	32	28.5	0	7.5	26	18	\$ 33,292.50	\$ 3,600.00	\$-		
Total Estimate including Reimbursable	Total Estimate including Reimbursable										\$36,892.50			