



Amendment #1: Consulting Scope of Services & Cost Estimate

PROJECT NAME: Missoula Water - East Front Street Replacement			\$80	\$100	\$100	\$115	\$145	\$160	\$160	\$125	\$190	DATE:	July 7, 2022	
200 Series - Field Work & Surveying			Admin	CAD	Technician	Production	Project Manager	Senior Staff		Survey Crew		IMEG Services	Direct Expenses	Agency Review Fees
200	Project Management	IMEG project meetings, schedule, and project coordination associated with this portion of work.					2					\$ 290.00		
202	General Site Visit	Engineering staff member to walk site to review mapping and get general understanding of topography and existing features. Assumes time included to research and dip storm and sanitary sewer mains in the project area.			6	1						\$ 715.00		
241	Limited R/W Survey & Utility/Topographic Mapping	IMEG will request a utility locate five business days prior to the survey crew being on site. The visible, above ground utilities and respective underground utility 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.	2	10			4		6	26	10	\$ 7,850.00	\$ 400.00	
Series 200 Total			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			Admin	CAD	Technician	Production	Project Manager	Senior Staff		Survey Crew		IMEG Services	Direct Expenses	Agency Review Fees
500	Project Management	IMEG project meetings, schedule, and project coordination associated with this portion of work.					4					\$ 580.00		
575	DEQ 1 Water System, Report - Exhibits	Develop the water system collection maps for this vicinity and gather hydrant test 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	No additional budget provided. Assumes previously provided scope covers this item.										\$ -		
580	DEQ 1 Water System, Construction Plans - Plan/Profile	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 abandonment 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.		32		6	3					\$ 4,325.00		
582	DEQ 1 Water System, Construction Plans - Details	Time included for additional detail sheets due to project expansion. Assumes 2 additional sheets will be added.		6		1	1					\$ 860.00		
585	Agency Comments -MDT Encroachment/Utility Permit	No additional budget provided. Assumes previously provided scope covers this item.										\$ -		
588	City of Missoula Stage 3 and Stage 4 Checklists	No additional budget provided. Assumes previously provided scope covers this item.										\$ -		
591	MDEQ Submittal	No additional budget provided. Assumes previously provided scope covers this item.										\$ -		
594	Address Reviewer Questions	As these are simple main projects with the Certified Checklist, it is assumed that there will be no MDEQ requests for additional information.										\$ -		
Series 500 Total			0	38	2	8	8	0	0	0	0	\$ 6,080.00	\$ -	\$ -

800 Series - Construction Administration, Inspections, and Staking			Admin	CAD	Technician	Production	Project Manager	Senior Staff		Survey Crew		IMEG Services	Direct Expenses	Agency Review Fees
800	Project Management	Time included for project meetings and project coordination.					6					\$ 870.00		
801	Contract Documents and Specifications - Including SRF Documentation	No additional budget provided. Assumes previously provided scope covers this item.										\$ -		
803	Quantity Estimates	Based on Construction Drawings IMEG will determine quantities of work items for an Engineers Cost Estimate.		6		4						\$ 1,060.00		
805	Engineer's Cost Estimate	No additional budget provided. Assumes previously provided scope covers this item.										\$ -		
811	Bidding Assistance	No additional budget provided. Assumes previously provided scope covers this item.										\$ -		
813	Pre-Construction Public Meeting	No additional budget provided. Assumes previously provided scope covers this item.										\$ -		
815	Contract Administration	Assumes one additional pay request as part of this additional scope. Previous scope item will cover the remainder of CA work.			6	2						\$ 830.00		
867	Water Main & Services Computations & Crew Prep	CAD Draftsman will produce calculated design points in accordance with the 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. Draftsman 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 provide offset and cut/fill information for stakes.			2			1				\$ 360.00		
869	Water Main & Services Construction Staking	Survey crew will provide stakes for the water main alignment and appurtenances 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 assumes 1 additional trip.			3		2	0.5		8		\$ 2,190.00	\$ 200.00	
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 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 testing.			80	15	5					\$ 10,450.00	\$ 3,000.00	
875	Certificate of Substantial Completion and Final Walkthrough	No additional budget provided. Assumes previously provided scope cover this item.										\$ -		
Series 800 Total			0	6	91	21	13	0	1.5	0	8	\$ 15,760.00	\$ 3,200.00	\$ -
900 Series - Final Project Documentation			Admin	CAD	Technician	Production	Project Manager	Senior Staff		Survey Crew		IMEG Services	Direct Expenses	Agency Review Fees
911	Construction As-Built - Water	IMEG will utilize field notes and photos to prepare as-built plans for certification of the water main replacement.			2	1	0.5					\$ 387.50		
914	Construction Certifications - Water(DEQ & Stage 6)	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 needed as the City will be involved through the Construction phase of this project.		2	2	1	1					\$ 660.00		
Series 900 Total			0	2	4	2	1.5	0	0	0	0	\$ 1,047.50	\$ -	\$ -

Project Summary	Admin		Technician	Production	Project Manager	Senior Staff		Survey Crew		IMEG Services	Direct Expenses	Agency Review Fees
Item No. - Description		Lead Drafter	El/Other	PE/EI	PE	PE	PLS	GPS	Total Station			
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										\$36,892.50		