

Consulting Scope of Services & Cost Estimate														
	PROJECT NAME:	Missoula Water - Dickens to McCormick Water Main Replacement	\$80	\$115	\$115	\$140	\$170	\$205	\$205	\$140	\$200	DATE:		June 5, 2023
100 Series - Preliminary Project Assessment and Planning		Admin	CAD	Technician	Production	Project Manager	Senio	r Staff	Survey Crew		Consulting Cost Est		imate	
Item No.	Description	Scope		Lead Drafter	El/Other	PE/EI	PE	PE	PLS	1 Man	2 Man	IMEG Services	Direct Expenses	Agency Review Fees
100	Project Management	IMEG project meetings, schedule, and project coordination associated with this portion of work.					2					\$ 340.00		
	Pre-Design Meeting with Client	Project Manager and select team members will meet with the Client to discuss project goals and project coordination. Initial meeting with Missoula Water to review as-builts of the main plus water service ditch cards and discuss tie in options. Review preliminary survey research.			14	10	2					\$ 3,350.00		
119	Review Right-of-Way, Plats & COS's	Time included to research the status of the adjacent right of ways (ROWs). Time included to research at Records Room concerning ROW. Assumes ROW will not be determined to be exact as improvements will take place within the road right of ways and service lines will be run just outside of road area.					2		2			\$ 750.00		
	Preliminary Alignment Review - Stage 2	Based on the information gained through the initial feasibility tasks and field work, IMEG will prepare a preliminary alignment and connection options of the water main replacement. IMEG will submit preliminary alignment to Missoula Water for review/comment as part of the Stage 2 submittal process.		30		8	3					\$ 5,080.00		
	Preliminary Agency Coordination - MRL	Assumes that IMEG and City of Missoula will have a preliminary meeting with MRL to discuss overall project and future permitting needs. Assumes one meeting with MRL.				2.5	1					\$ 520.00		
		Series 100 Total	0	30	14	20.5	10	0	2	0	0	\$ 10,040.00		\$ -
200 Series - Field Work & Surveying		Admin	CAD	Technician	Production	Project Manager	Senio	r Staff	Surve	y Crew	IMEG Services	Direct Expenses	Agency Review Fees	
200	Project Management	IMEG project meetings, schedule, and project coordination associated with this portion of work.					3					\$ 510.00		
202	General Site Visit	Engineering staff member to walk site to get general understanding of topography and existing features. Become familiar with the previously unidentified potential challenges to the project and take photos of the site. Assumes time included to research and dip sewer mains in the project area.			6	2	1					\$ 1,140.00		
	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 5 days of survey crew field work. Project survey area is Dickens from Sherwood to Cooper. Cooper from Dickens to Holmes. Milton from Cooper to Toole, Toole from Milton to McCormick. Also included strip mapping for existing hydrant lead into MRL property.		20			2		3	52		\$ 10,535.00	\$ 800.00	
		Series 200 Total	0	20	6	2	6	0	3	52	0	\$ 12,185.00		\$ -
500 Series - MDEQ: Applications, Sewer Designs; Water Designs; Subdivision Drainage Design		Admin	CAD	Technician	Production	Project Manager	Senio	r Staff	Surve	y Crew	IMEG Services	Direct Expenses	Agency Review Fees	
500	Project Management	IMEG project meetings, schedule, and project coordination associated with this portion of work.					8					\$ 1,360.00		
	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.			3	1						\$ 485.00		

Consulting Scope and Cost Estimate

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	DEQ 1 Water System, Report - Produce	Given that the involved parties are familiar with this type of water main replacement work, the MDEQ Certified Checklist for water mains will be used.			ь	1								
Ī	Report - Produce													
		This checklist requires a thorough review of the plans against MDEQ's Circular												
		DEQ-1 for compliance. In addition, a simple design report will be prepared in												
		accordance with Circular DEQ-1. This includes getting certification from the Clien												
		that they will retain a PE to certify the improvements and review by the governing												
		body's Engineering staff for the main replacement plans. Assumes there will be										\$ 830.00		
500	DEC 1111 : 0 :	two Deviation requests.				4.0	_					\$ 830.00		
580	DEQ 1 Water System,	Complete Construction Plans will be prepared depicting plan and profile of the		60		16	4							
	Construction Plans -	water main replacement for the following areas: Dickens from Sherwood to												
	Plan/Profile	Cooper. Cooper from Dickens to Holmes. Milton from Cooper to Toole, Toole												
		from Milton to McCormick Assumes up to 6 sheets will be required for plan and												
		profile. Assumes open trenching will occur under MRL ROW.										\$ 9,820.00		
582	DEQ 1 Water System,	Prepare cover sheet and up to two detail sheets including water service table and		16		8	4							
	Construction Plans -	typical details for water main construction. Additional coordination with the system												
	Details	Owner is not anticipated for details since this is a standard water main												
		construction.										\$ 3,640.00		
584	Agency Comments -MRL	Assumes IMEG will need to complete permitting documentation with MRL for the			8	2	1							
	Permit	crossing through their ROW.										\$ 1,370.00		
588	City of Missoula Stage 3	Assumes that the Stage 3 and Stage 4 Checklist will need to be completed for the		12	12	4	1							
	and Stage 4 Checklists	City of Missoula. Time included to complete these 2 checklist and submit to the											1	
		City for their review and approval.										\$ 3,490.00		
591	MDEQ Submittal	Finalize packet, copy, and send in. Assumes no review fees as project will be an	2			2	1	4				φ 3,490.00		
591	WIDEQ Submittal	SRF project. Time included for internal QA/QC	2			2	'	4				\$ 1,430.00		
594	Address Reviewer	As these are simple main projects with the Certified Checklist, it is assumed that										ψ 1,430.00		
354	Questions	there will be no MDEQ requests for additional information.										¢ -		
	Questions	Series 500 Tota	2	88	29	34	19	4	0	0	0	\$ 22.425.00	\$ -	\$ -
		Certes 300 Tota												
200 \$	orige - Construction Adm	nistration Inspections and Staking					Desiret					, , , , , , , , , , , , , , , , , , , ,	*	Ψ
800 S	eries - Construction Adm	nistration, Inspections, and Staking	Admin	CAD	Technician	Production	Project Manager	Senio	or Staff	Surve	ey Crew	IMEG Services	Direct Expenses	Agency Review Fees
	Project Management	inistration, Inspections, and Staking Time included for project meetings and project coordination.	Admin	CAD			.,	Senio	or Staff	Surve	ey Crew	, , , , , , , , , , , , , , , , , , , ,	Direct	Agency
	Project Management	· · · · · · · · · · · · · · · · · · ·	Admin	CAD	Technician	Production	Manager	Senio	or Staff	Surve	ey Crew	IMEG Services	Direct	Agency
800	Project Management Contract Documents and	Time included for project meetings and project coordination.	Admin	CAD			Manager 4	Senic	or Staff	Surve	ey Crew	IMEG Services	Direct	Agency
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Project Summary			Technician	Production	Project Manager	Senior Staff		Survey Crew			Direct	Agency
Item No Description	Admin	Lead Drafter	El/Other	PE/EI	PE	PE	PLS	GPS	Total Station	IMEG Services	Expenses	Review Fees
100 Series - Preliminary Project Assessment and Planning	0	30	14	20.5	10	0	2	0	0	\$ 10,040.00	\$ -	\$ -
200 Series - Field Work & Surveying	0	20	6	2	6	0	3	52	0	\$ 12,185.00	\$ 800.00	\$ -
500 Series - MDEQ: Applications, Sewer Designs; Water Designs; Subdivision												
Drainage Design	2	88	29	34	19	4	0	0	0	\$ 22,425.00	\$ -	\$ -
800 Series - Construction Administration, Inspections, and Staking	0	6	14	28	12	0	0	0	0	\$ 8,260.00	\$ -	\$ -
1000 Series - 5% Additional Services - TBD By City's Project Manager										\$ 2,600.00		
Total Consulting and Reimbursable to Obtain Approvals	2	144	63	84.5	47	4	5	52	0	\$ 55,510.00	\$ 800.00	\$ -
Total Estimate including Reimbursable											\$56,310.00	

Consulting Scope and Cost Estimate 2 of 2