

City of Laredo
16" Waterline Replacement along IH35 (approximately 10,500 LF)
Professional Engineering Services

Title	EDG PM	FM Sr. PE	RG ENG 1	CADD CADD	MR Eng Tech	Survey SC	MAG Admin	Total
Hourly Rate	\$ 235.00	\$ 185.00	\$ 125.00	\$ 85.00	\$ 70.00	\$ 165.00	\$ 70.00	
Task 1 - Preliminary Engineering								
1.1 Meet with City to discuss project goals and budget; provide minutes	4.0	4.0	2.0	2.0			6.0	18.0
1.2 Secure TxDOT ROW maps, plats and masterplans from City Planning Dept. and develop preliminary base maps;	4.0	8.0	16.0	72.0			12.0	112.0
1.3 Meet with TxDOT on IH35 widening plans and coordinate project;	4.0	4.0		4.0			3.0	15.0
1.4 Review current floodmaps to determine controlling site conditions;	2.0	8.0	8.0	8.0			4.0	30.0
1.5 Coordinate with UPRR / KCSR on permitting requirements for waterline installation within railroad right-of-way;	3.0	4.0	8.0	4.0			4.0	23.0
1.6 Coordinate with Geotech consultant retained by City;	6.0	6.0	8.0	4.0			6.0	30.0
Total Hours	23.0	34.0	42.0	94.0	0.0	0.0	35.0	228.0
Preliminary Engineering - Total Labor \$	\$ 5,405.00	\$ 6,290.00	\$ 5,250.00	\$ 7,990.00	\$ -	\$ -	\$ 2,450.00	\$ 27,385.00
Task 2 - Topo Survey / Mapping								
2.1 Perform topographic survey within project limits (survey work within TxDOT and UPRR / KCSR ROW); Topo Map	6.0	8.0	8.0	80.0	16.0	100.0	8.0	226.0
2.2 Prepare base maps for design development;	4.0	8.0	32.0	80.0			8.0	132.0
Total Hours	10.0	16.0	40.0	160.0	16.0	100.0	16.0	358.0
Topo Survey & Mapping - Total Labor \$	\$ 2,350.00	\$ 2,960.00	\$ 5,000.00	\$13,600.00	\$1,120.00	\$16,500.00	\$ 1,120.00	\$ 42,650.00
Task 3 - Utility Coordination								
3.1 Coordinate with all utility providers to secure existing utility maps and add to base maps; Digress Call	16.0	24.0	32.0	40.0		24.0	24.0	160.0
3.2 Provide City with existing topo and utility map	2.0	8.0	12.0	40.0	8.0		8.0	78.0
Total Hours	18.0	32.0	44.0	80.0	8.0	24.0	32.0	238.0
Utility Coordination - Total Labor \$	\$ 4,230.00	\$ 5,920.00	\$ 5,500.00	\$ 6,800.00	\$ 560.00	\$ 3,960.00	\$ 2,240.00	\$ 29,210.00
Task 4 - Hydraulic Modeling								
4.1 Hydraulic Modeling	8.0	48.0	24.0	24.0			6.0	110.0
4.2 Provide Engineering Report	8.0	32.0	24.0	24.0			16.0	104.0
Total Hours	16.0	80.0	48.0	48.0	0.0	0.0	22.0	214.0
Hydraulic Modeling - Total Labor \$	\$ 3,760.00	\$14,800.00	\$ 6,000.00	\$ 4,080.00	\$ -	\$ -	\$ 1,540.00	\$ 30,180.00
Task 5 - Construction Documents								
5.1 Prepare preliminary waterline alignments based on controlling topo and TxDOT and UPRR / KCSR conditions and prepare preliminary cost estimate; Submit to City for review and comment; Identify easement needs, if any; 50%	12.0	56.0	80.0	120.0		16.0	16.0	300.0
5.2 Prepare construction plans and specifications based on 50% comments 95% Plans	12.0	40.0	80.0	120.0		8.0	16.0	276.0
5.3 Update cost estimate to reflect final design;	4.0	6.0	8.0				8.0	26.0
5.4 Submit to UCC to coordinate conflicts and secure C3 letter;	6.0	6.0	12.0	8.0			8.0	40.0

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5.5 TxDOT permit applications;	4.0	6.0	8.0	8.0			8.0	34.0
5.6 Coordinate with Geotech consultant retained by City;	4.0	8.0	16.0	8.0			8.0	44.0
5.7 Prepare Final PS&E for bid letting	12.0	24.0	40.0	80.0			16.0	172.0
5.8 Submit final plans, specs to City for bid let	1.0	2.0		4.0			4.0	11.0
Total Hours	55.0	148.0	244.0	348.0	0.0	24.0	84.0	903.0
Construction Documents - Total Labor \$	\$12,925.00	\$27,380.00	\$30,500.00	\$29,580.00	\$ -	\$ 3,960.00	\$ 5,880.00	\$110,225.00
Task 6 - Construction Phase Services (TBD)								

	Total Hours	1,941.00
Summary		
Task 1 - Preliminary Engineering		\$ 27,385.00
Task 2 - Topo Survey / Mapping		\$ 42,650.00
Task 3 - Utility Coordination		\$ 29,210.00
Task 4 - Hydraulic Modeling		\$ 30,180.00
Task 5 - Construction Documents		\$110,225.00
Task 6 - Construction Phase Services (TBD)		
	Total	<u>\$239,650.00</u>