

Proposal for Additional Work
2012-13 Miscellaneous Water and Sanitary Sewer Main Replacement
Projects 13-21 and 13-22

Scope of Services

At the City's request, we will provide sewer design services for replacing an additional 800 LF of existing 6-inch sewer main with 8-inch sewer main by pipe bursting at the following location:

- El Camino Real, from Escuela Avenue to south of El Monte Avenue (see exhibit).

Task 11.1: El Camino Real Topographic Survey

The NV5 survey team will conduct a field survey of existing features including utilities, curb and gutter, pavement, and drainage structures. Field survey information, including utilities, will be shown on the City's base map for incorporation into the construction plans. The field survey will include measurement of sewer inverts and water valve box operator depths for inclusion in construction plan and profile sheets. Potholing of existing utilities is excluded. For field survey activities, the City will provide traffic control and Caltrans encroachment permitting as needed.

Task 11.2 El Camino Real Construction Plans

One member of the NV5 project design team will visit the project site to investigate existing site conditions, identify opportunities and constraints, and verify the location of existing utilities. The site visit will occur after the topographic survey is completed. Available background information provided by the City will be reviewed including: City utility maps of water, sanitary sewer, storm drain, and streetlight systems; and water and sewer as-built plans. Utility companies (gas, cable, telephone) will be contacted to verify the location of other utilities within the project area. Two construction plan and profile sheets will be prepared at 65 percent design level for review by the City. Following receipt of City comments, the two construction plan and profile sheets at the 100 percent design level will be submitted. The 100 percent plans will incorporate City comments. For construction of the sewer replacement by pipe bursting, the City will provide traffic control plans and any required Caltrans encroachment permitting.

LEGEND



PROPOSED 8-INCH SEWER MAIN



City of Mountain View
 2012-13 Misc. Water and Sewer Replacements
 Additional Work - El Camino Real (Escuela to south of El Monte) Sewer Replacement
 November 2014

ATTACHMENT 1

Fee Estimate for El Camino Real sewer replacement by pipe bursting

	Engr Mgr	Sr. Engr	Assoc. Engr	Asst. Engr	CADD Tech	Junior Surveyor	Survey Mgr.	2-Person Srvy Crew	1-person Srvy Crew	Subtotal Hours by Task	Total Hours by Task	Subtotal Dollars by Task	Total Dollars by Task
	\$198	\$176	\$165	\$140	\$105	\$120	\$198	\$238	\$185				
El Camino Real Topographic Survey ¹													
Survey control								4		4		\$ 952	
Field survey including utilities				1				4	8	13		\$ 2,572	
Base mapping				1		24				25		\$ 3,020	
Subtotal	0	0	0	2		24	0	8	8		42		\$ 6,544
El Camino Real Construction Plans ²													
Site Visit				4						4		\$ 560	
65% Plan and Profiles (2 sheets)	8			30	24					62		\$ 8,304	
100% Plan and Profiles (2 sheets)	6			16	12					34		\$ 4,688	
Subtotal	14	0	0	50	36	0	0	0	0		100		\$ 13,552
TOTAL	14	0	0	52	36	24	0	8	8	142	142		\$ 20,096

¹ Assumes City will provide encroachment permit and traffic control for surveying task. Cost to provide assistance with encroachment permit and traffic control would be an additional \$3,500 (approx.).

² Assumes contractor would provide traffic control plan for City/Caltrans approval.