



Exhibit "A"

Proposed Scope of Services Design of Annual Water and Sewer Main Replacements, Projects 17-21 and 17-22 City of Mountain View, California March 23, 2018

Project Area Description and Overview

Mott MacDonald (MM) will provide remedial pipe design and associated Contract Documents for the Annual Water and Sewer Main Replacements project, Projects 17-21 and 22. The project includes the rehabilitation and replacement of the approximately 5,700 linear feet of water mains and services and 6,250 linear feet of sanitary sewer mains and laterals in the City of Mountain View as identified in the table below:

	Street	From	To	W/S	Existing	
					Water Main Size & Length	Sewer Main Size & Length
1	Spring St.	Telford Ave.	Morgan St.	W&S	6" CIP - 1,624' 8" CIP - 203'	6" VCP - 534' 8" VCP - 294' 12" VCP - 1,477'
2	Morgan St.	Telford Ave.	Spring St.	W&S	6" CIP - 1,242' 8" ACP - 560'	6" VCP - 829' 8" VCP - 872'
3	Morgan Ct.	Morgan St.	the end	W&S	6" CIP - 250'	6" VCP - 230'
4	Camp Ave.	Spring St.	Rock St.	W&S	6" CIP - 495'	8" VCP - 511'
5	Telford Ave.	Old Middlefield Way	Rock St.	W&S	8" CIP - 536'	6" VCP - 200' 8" VCP - 535'
6	Rock St.	Telford Ave.	the end	W&S	6" CIP - 649' 6" ACP - 125'	6" VCP - 142' 8" VCP - 619'

The water and sewer projects include designing replacements to the pipelines using open-trench method for water mains and trenchless or open-trench methods for sewer mains and laterals. Minimum sewer size shall be 8-inch. Final water and sewer sizes will be determined during Phase 1 of the project.

The specific steps of this proposal are to:

- Develop plans, specifications, and cost estimates ready for bid, which include:
 - Project management, including meetings, site visits, and agency coordination
 - Preparation of 65%, 95%, draft 100%, and 100% (final) design submittals
 - Geotechnical investigation and report
 - Surveying of project areas
 - CADPH waivers for exemptions to cross under storm drains or where utility separation clearances cannot be met

- Caltrans encroachment permit
- Potholing in critical areas of unknown utility depths
- Bid assistance
- Construction support services

Proposed Tasks

The proposed scope of services will include the following tasks:

Phase 0 - Project Management Services

- 0.1 General project management includes project coordination, maintaining project schedule, internal filing, assigning team member responsibilities, invoicing, and monthly progress reports.

Phase 0 Deliverables:

- *Monthly invoices and progress reports*

Phase 1 – Preliminary Investigation and Refinement of Conceptual Plans

- 1.1 Attendance at kickoff meeting and preparation of minutes.
- 1.2 Visit project site to investigate existing conditions and site constraints. Identify visible utilities and other items requiring design coordination; coordinate with affected property owners for access to sanitary sewer and/or water easements in private yards; and inspect existing conditions of all sanitary sewer manholes for rehabilitation vs. replacement recommendations.
- 1.3 Data Gathering and Review.
 - a. Collection and review of CCTV logs of existing sewers. Review of CCTV videos as necessary.
 - b. City record drawings including improvement plans and right-of-way documents.
 - c. City water valve cards.
 - d. City Standard Provisions and Standard Details.
 - e. Data review for trenchless evaluation.
 - f. Prepare and submit Utility RFI letters and proposed work area maps.
- 1.4 Topographic Surveying
 - a. Establish horizontal and vertical control.
 - b. Perform topographic survey and data reduction to include three-point cross-sections every 50 feet in the streets from setback (typically 5 feet from back of sidewalk) to opposite setback.
 - c. Field locate and plot curbs, back-of-sidewalk, driveways, and pavement markings along with existing visible utility piping, inlets, manholes, cleanouts, valves, fire hydrants, vaults, boxes, trees and utility poles, fences, and other structures that may be impacted by the proposed project.

- d. Determination of fence lines and verification of invert elevations and pipe sizes of storm and sanitary sewers and the top of nut elevation of water valves where accessible along the pipeline routes.
- e. Compile base mapping at 1" = 20' horizontal scale.
- 1.5 Prepare Project Schedule. Provide three to four (3 to 4) weeks of City review for all submittals.
- 1.6 Conduct geotechnical investigations and create report to address analytical soil results as well as soil report for landfill disposal.
 - a. Field Exploration
 - i. Exploratory Borings - Drill, log, and sample four (4) exploratory borings in the project area at agreed upon locations using conventional truck-mounted direct-push borings or hand-auger borings. The borings, up to approximately 10 feet in depth, will extend below the assumed invert depths of the water and sewer mains.
 - ii. Utility Clearance – Surface locate utilities and mark boring locations and coordinate with USA.
 - iii. Permits, Site Access and Disposal of Drill Spoils - Subsurface explorations permitted and backfilled with acceptable materials in accordance with Section 89 of the City's Standard Conditions for Excavation Permits for boring sealing mix. Obtain a no-fee encroachment permit form the City of Mountain View which includes a traffic control plan. Site restoration and all work shall be done in accordance with the City's Standard Conditions for Excavation Permits.
 - iv. City to provide temporary location to store boring spoils in four (4) 55-gallon drums until soil testing is complete and Geotech report is finalized. (8 drums max.)
 - b. Laboratory Testing
 - Two soil samples will be collected from each of the four (4) borings. Analyze soil samples for the following:
 - i. Volatile organic compounds (VOCs) and gasoline range organics by Environmental Protection Agency (EPA) Method 8260B
 - ii. Semi-VOCs by EPA Method 8270C
 - iii. Diesel and motor oil range organics and silica-gel cleanup by EPA Method 8015B
 - iv. Organochlorine pesticides by EPA Method 8081A
 - v. Polychlorinated biphenyls by EPA Method 8082
 - vi. California State Administrative Manual (CAM)17 metals by EPA Methods 6010B and 7471A
 - vii. Hexavalent chromium by EPA Method 7199
 - viii. Asbestos by California Air Resources Board 435 Method
 - ix. Evaluate soil dry density and moisture content, soil gradations, Atterberg limits, shear strength, and soil corrosivity.

- c. Report Preparation
- i. Compile and analyze laboratory data to characterize soil per California Code of Regulations, Title 22 Division 4.5, Chapter 11, Article 3, Section 66261.20 for waste evaluation.
 - ii. Prepare a report presenting the findings and conclusions of the soil evaluation, including soil classification for disposal, recommendations, and a cost estimate for soil for disposal; tabulated analytical results; laboratory reports with chains of custody; a site plan showing the boring locations; and boring logs.
 - iii. Compile and analyze field and geotechnical laboratory data and results of geologic review to evaluate the following:
 - Subsurface conditions encountered at the site including stratigraphy, depth to groundwater if encountered, and published historic groundwater depth.
 - Geologic and seismic hazards present on site including potential for liquefaction, expansive soils, strong ground shaking, and faulting.
 - Suitability for the proposed construction from a geotechnical standpoint in light of the potential seismic and geologic hazards.
 - Recommendations for measures to mitigate the effect of the relevant geologic and seismic hazards on the proposed improvements, as appropriate.
 - Recommendations for trenching, shoring, backfill material, backfill compaction, and potential for trenchless installation methods.

Phase 1 Deliverables:

- *Kickoff meeting minutes.*
- *Topographic survey.*

Phase 2 – Schematic Design (35%)

- 2.1 Combine background information into schematic (35%) design including proposed water and sanitary sewer horizontal alignments, including existing utilities and topographical information

Phase 2 Deliverables:

- *35% schematic layout.*

Phase 3 – Design Development/Construction Documents (65%, 95% Draft 100%, & Final)

- 3.1 Preparation of 65% design submittal.
- 3.1.1 Prepare 65% drawings. Advance 35% schematic design to 65% level accounting for utility information, site investigations, geotechnical

report, CCTV logs, and other relevant information. Set vertical pipeline alignments. Peer review and QA/QC of 65% plans.

- 3.1.1.A Traffic control plans to be in accordance with latest CA MUTCD
- 3.1.2 Prepare 65% specifications and engineer's estimate of probable construction costs.
- 3.2 Prepare and submit CADPH waivers, if needed.
- 3.3 Prepare and submit Caltrans Encroachment Permit
- 3.4 Review of City comments on 65% submittal, prepare responses, and meet with City to discuss.
 - 3.4.1 Potholing for utility verification (up to 15 potholes). Potholes are to be backfilled with CDF or CLSM (50-150 PSI) and ½-inch HMA Type B surface mix per City Exploratory Pothole Restoration Standard Detail A-20.
- 3.5 Preparation of 95% design submittal.
 - 3.5.1 Review and address City comments and other stakeholder requirements from 65% design submittal. Update plans to 95% completion and include details, connections to existing pipelines, bedding and trench restorations, updated traffic control plan details, etc. Peer review and QA/QC of 65% plans.
 - 3.5.2 Update specifications and engineer's estimate of probable construction costs.
- 3.6 Review of City comments on 95% submittal, prepare responses, and meet with City to discuss.
- 3.7 Preparation of draft 100% design submittal.
 - 3.7.1 Review and address City comments from 95% design submittal.
 - 3.7.2 Update plans to 100% completion, finalize specifications, revise Engineer's estimate of probable cost to 100% level, and conduct QA/QC, constructability, and biddability reviews of contract documents.
- 3.8 Review of City comments from 100% design submittal, prepare responses, and meet with City to discuss.
- 3.9 Final 100% Documents (Bid Set)
 - 3.9.1 Finalize construction drawings, contract specifications, and engineer's estimate of probable cost.
 - 3.9.2 Provide final plan sheets and the electronic AutoCad drawing files, technical specifications in Word, and a final Engineer's Opinion of Probable Construction Cost in Excel. Forward deliverables to City for printing.

Phase 3 Deliverables:

65% Deliverables:

- *Seven (7) copies and PDF copies of 65% plans, tech specs, traffic control plans, engineer's estimate of probable construction costs.*
- *Initial responses to City comments on 65% submittal.*
- *65% review meeting minutes.*
- *Draft geotechnical report.*

95% Deliverables:

- *Seven (7) copies and PDF copies of 95% plans, tech specs, traffic control plans, engineer's estimate of probable construction costs.*
- *Final Response to City's 65% review comments and incorporation verification.*
- *Final geotechnical report.*
- *Initial responses to City comments on 95% submittal.*
- *95% Review Meeting Minutes.*

"Draft" 100% Deliverables:

- *Four (4) copies and PDF copies of "draft" 100% plans, tech specs, traffic control plans, engineer's estimate of probable construction costs.*
- *Final Response to City's 95% review comments and incorporation verification.*
- *Initial responses to City comments on 100% submittal.*
- *100% Review Meeting Minutes.*

Final Deliverables:

- *One (1) wet-signed copy and one (1) digital file AutoCAD/Word/Excel/PDF of each of the Final Bid Documents including plans, specifications, and engineer's estimate of probable construction costs, which include construction quantities for inclusion into the specifications.*

Phase 4 - Bid Assistance

- 4.1 Assist the City in responding to bidder inquiries (up to 3 RFIs).
- 4.2 Prepare addendum if needed.

Phase 4 Deliverables:

- *RFI responses, if needed.*
- *Addendum, if needed.*

Phase 5 – Construction Support Services

- 5.1 Attendance at preconstruction meeting.
- 5.2 Construction staking of water and sewer mains and sewer lateral connections for construction contractor. Stakes will be set at 100-foot intervals at an

agreed upon offset. Grades will be given to the flowline of the main. One set of cut sets and point plots will be provided after the staking. All stakes for the water main will be set in one staking sequence.

- 5.3 Advise and consult with City during construction; respond to RFIs (up to 10).
- 5.4 Submittal reviews (up to 40).
- 5.5 Review postconstruction CCTV logs and DVDs.
- 5.6 Assist the City in review of construction change orders (CCOs) and construction claims.

Phase 5 Deliverables:

- *Preconstruction meeting minutes.*
- *Construction staking of water and sewer mains.*
- *RFI responses (up to 10).*
- *Submittal reviews (up to 40).*
- *Summary spreadsheet of postconstruction CCTV logs and DVDs reviews.*

Phase 6 – Postconstruction Services

- 6.1 Preparation of record drawings. Transfer of Contractor's and Construction Manager's redlined field record drawings.

Phase 6 Deliverables:

- *One (1) signed and stamped set of record drawings on mylar.*
- *AutoCAD and PDF files of record drawings.*

Optional Services:

- Two (2) additional meetings at 1 hour each.
- Four (4) additional geotechnical borings with laboratory chemical analyses.
- Prepare Health and Safety Plan for Construction Operations
 - Health & Safety Plan will be prepared to include information relating to potential constituents of concern within the trench soil based on the soil sample analytical results from the environmental investigation.

Assumptions:

- The City of Mountain View will coordinate site access/permission to enter non-City owned properties if necessary.
- The City of Mountain View will issue authorization to proceed after completion of televising of the sewer mains.
- The City of Mountain View will provide CCTV data and collect additional data as necessary.
- Based on the scope of work, eleven (11) plans and profile sheets, two (2) City Standard Details sheets, four (4) detail/section sheets, and twelve (12) traffic control plans sheets may be required. MM will prepare necessary design plans to

reasonably convey the intent and approved project scope for the purposes of construction.

- All work associated with exploratory borings will be performed in accordance with the City's Standard Conditions for Excavation Permits.
- The City of Mountain View will prepare documents required for environmental clearance in accordance with CEQA. MM will provide supporting information, as needed, for incorporation into CEQA documents.
- The City of Mountain View will issue a no-fee Excavation Permit.
- The City of Mountain View will provide an area at the MOC to store an anticipated four (4) 55-gallon drums (but not exceeding 8 drums) of spoils generated during exploratory boring drilling, prior to proper disposal.
- Laboratory costs assume that four (4) of the eight (8) samples will require Soluble Threshold Limit Concentration (STLC) chromium analyses to classify soil for disposal.
- The City of Mountain View will provide general conditions and front end of specifications.
- It is assumed that this project is considered an update to existing lines and facilities under the linear underground project (LUP) not covered by the NPDES general permit for stormwater discharges associated with construction activity. Therefore, preparation of a stormwater pollution and prevention plan is not included in this scope.

Items Excluded from Scope of Work:

- Assessment of environmental characteristics at the project sites, particularly those involving hazardous substances.
- Disposal of hazardous materials. Disposal costs of hazardous materials are estimated to be between \$1,600 and \$2,400 for four (4) drums.
- Preparation of permit applications other than those listed in the scope of work.
- Permit application fees or any other fees that may be required by regulatory agencies.
- Potholing for utility verification beyond the 15 potholes included in this scope of work
- Preparation of property acquisition maps, surveying for easements and description for additional rights-of-way talking for implementation of the proposed project.

Proposed Budget

These services will be performed on a time and materials, reimbursable, not to exceed fee basis. The fee proposed to perform the services described above is \$352,429. The fee proposed to perform the optional services described above is \$15,460.



Proposed Schedule

The design for this project will be completed approximately one (1) year from receipt of authorization to proceed. It is anticipated that the Annual Water and Sewer Main Replacements, Projects 17-21 and 17-22, will be bid in Summer 2019.

Schedule of Hourly Rates

Classification	Rate/Hour
Vice-President	\$300
Project Controls & Quality Assurance	\$265
Principal Project Manager	\$260
Senior Traffic Engineer	\$225
Senior Project Manager	\$190
Project Manager	\$185
Traffic Engineer	\$175
Senior Project Engineer	\$145
Engineer III	\$120
CAD/GIS	\$110
Admin. Asst.	\$90

Expenses

Materials, External Copying & Printing, Phone, Fax	Cost + 10%
Internal Copying - Letter Size (per single-sided page + labor)	\$0.10
Internal Copying - Ledger Size (per single-sided page + labor)	\$0.21
Large Sheet Prints - Bond or Blueline (per D size sheet + labor)	\$2.08
Large Sheet Plots - Vellum (per D size sheet + labor)	\$4.16
Large Sheet Plots - Mylar (per D size sheet + labor)	\$6.24
Delivery/Courier Service	Cost + 10%
Auto Expenses (per mile)	\$0.54
Travel Expenses	Cost + 10%

City of Mountain View
Annual Water and Sewer Main Replacements,
Project 17-21 17-22
Fee Proposal
April 12, 2018

Task No.	Task Description	Project Principal	Principal Project Manager	Technical Advisor & QA/QC	Project Engineer	Senior Traffic Engineer	Traffic Engineer	Engineer III	CAD/GIS	Admin. Asst.	Total MM Hours	Total MM Reimbursables Labor	Alexander	Ninyo & Moore	Exaro	Total Sub-Fee & Direct Costs	Markup on Subs-5%	Total Subs	MM Subtotal	Task & Subtask Totals
													Surveying	Geotechnical	Potholing					
		CPM	TKS	TGG	JSM	LT	CL				Hours	Cost				Cost	Cost	Cost	Cost	Cost
BASIC ENGINEERING SERVICES																				
0	Project Management																			
0.1	General Project Management, Project Setup, and Invoicing For Client Meetings, see Task 7 below QA/QC included in Task submittals	2	36								38	\$ 9,960				\$ -	\$ -	\$ -	\$ 9,960	\$ 9,960
Task 0 Subtotal		2	36	0	0	0	0	0	0	0	38	\$ 9,960	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 9,960	\$ 9,960
1.0	Phase I - Preliminary Investigation & Refinement of Conceptual Plans																			
1.1	Kickoff Meeting and Minutes (see Task 7 below)																			
1.2	Site Visits including manhole investigations			4	8			8	8		28	\$ 4,060				\$ -	\$ -	\$ -	\$ 4,060	\$ 4,060
1.3	Review/Research Available Record data, CCTV logs, utility RFIs			16				32			49	\$ 6,420				\$ -	\$ -	\$ -	\$ 6,420	\$ 6,420
1.4	Topographic Survey			1	6						7	\$ 1,130	\$ 27,800			\$ 27,800	\$ 1,390	\$ 29,190	\$ 1,130	\$ 30,320
1.5	Prepare Project Schedule			2							2	\$ 520				\$ -	\$ -	\$ -	\$ 520	\$ 520
1.6	Geotechnical Services			1	4						5	\$ 840				\$ -	\$ -	\$ -	\$ 840	\$ 840
1.6.1	Provide geotechnical soil disposal report for landfill including soil samples and 4 borings*										0	\$ -				\$ 20,320	\$ 1,016	\$ 21,336	\$ -	\$ 21,336
1.6.2	Provide geotechnical report and lab analyses (non-environmental)										0	\$ -				\$ 16,680	\$ 834	\$ 17,514	\$ -	\$ 17,514
Task 1 Subtotal		0	5	4	34	0	0	40	8	0	91	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Task 1 Cost per Staff		\$ -	\$ 1,300	\$ 1,080	\$ 4,930	\$ -	\$ -	\$ 4,800	\$ 890	\$ -	\$ 12,970	\$ 27,800	\$ 37,000	\$ -	\$ 64,800	\$ 3,240	\$ 68,040	\$ 12,970	\$ 81,010	
2.0	Phase II - Schematic Design																			
2.1	35% Schematic Layout			14	4	40		60	80		198	\$ 26,500				\$ -	\$ -	\$ -	\$ 26,500	\$ 26,500
Task 2 Subtotal		0	14	4	40	0	0	80	80	0	198	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Task 2 Cost per Staff		\$ -	\$ 3,640	\$ 1,080	\$ 5,800	\$ -	\$ -	\$ 7,200	\$ 8,800	\$ -	\$ 26,500	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 26,500	\$ 26,500
3.0	Phase III - Design Development/Construction Documents																			
3.1.1	65% Design and Construction Documents																			
3.1.1.1	65% Drawings			4	6	60		80	120		270	\$ 34,130				\$ -	\$ -	\$ -	\$ 34,130	\$ 34,130
3.1.1.A	65% Traffic Control					2	3	28	60		93	\$ 12,465				\$ -	\$ -	\$ -	\$ 12,465	\$ 12,465
3.1.2	65% Specs and Estimate			4	24			4	16	4	58	\$ 8,060				\$ -	\$ -	\$ -	\$ 8,060	\$ 8,060
3.2	Prepare Permit Applications (CADPH) and Agency & Utilities Reviews			1	8			12	24		45	\$ 5,500				\$ -	\$ -	\$ -	\$ 5,500	\$ 5,500
3.3	Caltrans Permit for Encroachment to Old Middlefield and US 101 on-ramp			1	10	8		8			27	\$ 3,990				\$ -	\$ -	\$ -	\$ 3,990	\$ 3,990
3.4	65% Review City comments, prepare responses (Meet with City and Minutes under Task 7 below)			2	4	4		4	8	1	19	\$ 2,850				\$ -	\$ -	\$ -	\$ 2,850	\$ 2,850
3.4.1	Utility potholing (15 potholes max)			1	4			8			13	\$ 1,720	\$ 24,469			\$ 24,469	\$ 1,223	\$ 25,692	\$ 1,720	\$ 27,412
3.5	95% Design and Construction Documents																			
3.5.1	95% Plans			2	8	80	1	16	68	100	275	\$ 36,425				\$ -	\$ -	\$ -	\$ 36,425	\$ 36,425
3.5.2	95% Specifications and Estimate			2	14	1	2	2		6	27	\$ 3,905				\$ -	\$ -	\$ -	\$ 3,905	\$ 3,905
3.6	95% Review City comments, prepare responses (Meet with City and Minutes under Task 7 below)			1	2	4	6			1	14	\$ 2,060				\$ -	\$ -	\$ -	\$ 2,060	\$ 2,060
3.7	100% Draft PS&E			1	6	64	2	16	80		169	\$ 23,180				\$ -	\$ -	\$ -	\$ 23,180	\$ 23,180
3.8	Draft 100% Review City comments, prepare responses (Meet with City and Minutes under Task 7 below)			1	2	1	4	12	32	1	10	\$ 1,470				\$ -	\$ -	\$ -	\$ 1,470	\$ 1,470
3.9	Final 100% Documents (Bid Set)			1	8	1	4	12	32	1	60	\$ 7,660				\$ -	\$ -	\$ -	\$ 7,660	\$ 7,660
Task 3 Subtotal		0	21	21	282	8	88	198	448	14	1,080	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Task 3 Cost per Staff		\$ -	\$ 5,480	\$ 5,585	\$ 40,890	\$ 1,800	\$ 15,400	\$ 23,760	\$ 49,280	\$ 1,280	\$ 143,415	\$ -	\$ -	\$ -	\$ 24,469	\$ 24,469	\$ 1,223	\$ 25,692	\$ 143,415	\$ 169,107
4.0	Phase IV - Bidding																			
4.1	Respond to Bidder Inquiries (up to 3)			3	1	6		2			12	\$ 2,265				\$ -	\$ -	\$ -	\$ 2,265	\$ 2,265
4.2	Prepare Addendum (1 assumed)			1	2				1	1	5	\$ 750				\$ -	\$ -	\$ -	\$ 750	\$ 750
Task 4 Subtotal		0	4	1	8	0	2	0	1	1	17	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Task 4 Cost per Staff		\$ -	\$ 1,040	\$ 285	\$ 1,180	\$ -	\$ 350	\$ -	\$ 110	\$ 90	\$ 3,015	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 3,015	\$ 3,015
5.0	Phase V - Construction																			
5.1	Attend Pre-Construction Conference (See Task 7 below)																			
5.2	Construction Staking of Water and Sewer Mains			1	6						7	\$ 1,130	\$ 31,640			\$ 31,640	\$ 1,582	\$ 33,222	\$ 1,130	\$ 34,352
5.3	Response to RFIs (assume 10)			2	10						13	\$ 2,235			\$ -	\$ -	\$ -	\$ 2,235	\$ 2,235	
5.4	Submittal Reviews (assume 40)			8	20			20		10	60	\$ 8,810				\$ -	\$ -	\$ -	\$ 8,810	\$ 8,810
5.5	Review Postconstruction CCTV logs and DVDs			2	20						22	\$ 3,420				\$ -	\$ -	\$ -	\$ 3,420	\$ 3,420
5.6	Change Order Reviews (assume 4)			4	8						12	\$ 2,200				\$ -	\$ -	\$ -	\$ 2,200	\$ 2,200
Task 5 Subtotal		0	17	3	64	0	0	20	0	10	114	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Task 5 Cost per Staff		\$ -	\$ 4,420	\$ 795	\$ 9,280	\$ -	\$ -	\$ 2,400	\$ -	\$ 900	\$ 17,795	\$ 31,640	\$ -	\$ -	\$ 31,640	\$ 1,582	\$ 33,222	\$ 17,795	\$ 51,017	
6.0	Phase VI - Postconstruction																			
6.1	Prepare Record Drawings			1	8				32		41	\$ 4,940				\$ -	\$ -	\$ -	\$ 4,940	\$ 4,940
6.2	Prepare Electronic Files (pdf and AutoCAD)			1	2				8		11	\$ 1,430				\$ -	\$ -	\$ -	\$ 1,430	\$ 1,430
Task 6 Subtotal		0	2	0	10	0	0	0	40	0	52	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Task 6 Cost per Staff		\$ -	\$ 520	\$ -	\$ 1,480	\$ -	\$ -	\$ -	\$ 4,400	\$ -	\$ 6,370	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 6,370	\$ 6,370
BASIC ENGINEERING SERVICES MANHOUR TOTAL		2	99	33	438	8	90	318	577	25	1,890	\$ 220,025	\$ 89,440	\$ 37,000	\$ 24,469	\$ 120,909	\$ 6,045	\$ 126,954	\$ 220,025	\$ 346,979
BASIC ENGINEERING SERVICES LABOR COST TOTAL		\$ 600	\$ 25,740	\$ 8,745	\$ 63,510	\$ 1,800	\$ 15,750	\$ 38,160	\$ 63,470	\$ 2,250	\$ 220,025	\$ 89,440	\$ 37,000	\$ 24,469	\$ 120,909	\$ 6,045	\$ 126,954	\$ 220,025	\$ 346,979	

City of Mountain View
Annual Water and Sewer Main Replacements,
Project 17-21. 17-22
Fee Proposal
April 12, 2018



Task No.	Task Description	Project Principal	Principal Project Manager	Technical Advisor & QA/QC	Project Engineer	Senior Traffic Engineer	Traffic Engineer	Engineer III	CAD/GIS	Admin. Asst.	Total MM Hours	Total MM Reimbursables Labor	Alexander	Ninyo & Moore	Exaro	Total Subs-Fee & Direct Costs	Mark-up on Subs- 5%	Total Subs	MM Subtotal	Task & Subtask Totals	
													Surveying	Geotechnical	Potholing						
	Key Staff/Staff Grade	CPM	TKS	TGG	JSM	LT	CL														
	Hourly Rates	\$300	\$260	\$265	\$145	\$225	\$175	\$120	\$110	\$90	Hours	Cost				Cost	Cost	Cost	Cost	Cost	
7.0	Phase VII - Client Meeting Services																				
7.1	Kickoff Meeting and Minutes		2		2					1	5	\$ 900							\$ 900	\$ 900	
3.4	65% Design Review Meeting and Minutes		2	2	2					1	7	\$ 1,430							\$ 1,430	\$ 1,430	
3.6	95% Design Review Meeting and Minutes		1	1	1					1	4	\$ 760							\$ 760	\$ 760	
3.8	Draft 100% Design Review Meeting and Minutes		2		2					1	5	\$ 900							\$ 900	\$ 900	
5.1	Meeting During Construction Phase				1					1	2	\$ 235							\$ 235	\$ 235	
	Task 7 Subtotal	0	7	3	8	0	0	0	0	6	23								\$ -	\$ -	
	Task 7 Cost per Staff	\$ -	\$ 1,820	\$ 795	\$ 1,160	\$ -	\$ -	\$ -	\$ -	\$ 450		\$ 4,225							\$ 4,225	\$ 4,225	
	CLIENT MEETINGS MANHOURLY TOTAL	0	7	3	8	0	0	0	0	6	23								\$ 4,225	\$ 4,225	
	CLIENT MEETINGS LABOR COST TOTAL	\$ -	\$ 1,820	\$ 795	\$ 1,160	\$ -	\$ -	\$ -	\$ -	\$ 450		\$ 4,225	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 4,225	\$ 4,225	
	MM Other Direct Costs (ODCs)/Reimbursables																				
	Mileage											\$ 225				\$ -	\$ -	\$ -	\$ 225	\$ 225	
	Reproduction											\$ 1,000				\$ -	\$ -	\$ -	\$ 1,000	\$ 1,000	
	TOTAL PROPOSED FEE WITHOUT ADDITIONAL SERVICES											\$ 225,475	\$ 69,440	\$ 37,000	\$ 24,469	\$ 120,909	\$ 6,045	\$ 126,954	\$ 225,475	\$ 352,429	

Notes:
1) Assume City will issue a no-fee excavation permit for geotechnical borings.