

April 3, 2024

780 N. 4th Street El Centro, CA 92243 (760) 370-3000 landmark@landmark-ca.com

77-948 Wildcat Drive Palm Desert, CA 92211 (760) 360-0665 gchandra@landmark-ca.com

Ms. Andrea Varela Mission Springs Water District 66575 Second Street Desert Hot Springs, CA 92240

Subject:

Construction Testing Services

Watermain Emergency Repair @ 3 Sites

Desert Hot Springs, California LCI Proposal No.: LP24060T

Dear Ms. Varela:

LandMark Consultants, Inc. is pleased to provide this proposal for construction testing at the proposed watermain emergency repair project located at 13<sup>th</sup> Avenue, Mission Lakes Blvd. and Thomas Avenue crossing the Mission Creek in the city of Desert Hot Springs, California.

The following scope of work is anticipated for this project:

- Compaction Testing of trench backfill.
- Laboratory Testing for Soil

Our services as described above will be provided for a "budget fee" of:

13 <sup>th</sup> Avenue crossing @ Mission Creek	\$ 6,000.00
Mission Lakes Blvd. crossing @ Mission Creek	\$ 9,500.00
Thomas Avenue crossing @ Mission Creek	\$ 7,800.00

Our services will be provided on *a time and materials* basis in accordance with the rates set forth in the attached Prevailing Wage 2023/2024 fee schedule.

We have attempted to be realistic in developing our estimate for this project; please keep in mind that our services are directly dependent upon the contractor's schedule and events which occur during the duration of the project which cannot always be predicted in advance. Any change in the contractor's schedule will impact on our budget. We will attempt to coordinate our services with the contractor's site superintendent to efficiently service the project. In the event that construction activities result in projected additional fees beyond those described herein, we will contact you for an additional written budget increase, if necessary.

The fees presented are based on prompt payment for services presented in our standard invoicing format. Please sign this agreement and return it to our office. We appreciate the opportunity to provide these services for the subject project. Please feel free to call me if you have any questions.

Sincerely Yours,

LandMark Consultants, Inc.

Greg M. Chandra, P.E., M.ASCE Area Manager- Palm Desert Office



780 N. 4th Street El Centro, CA 92243 (760) 370-3000 (760) 337-8900 fax

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## **ESTIMATE WORKSHEET - Civil**

**CLIENT:** 

MSWD

PROJECT: LOCATION:

13th Avenue Emergency Watermain Repair 13th Avenue Crossing @ Mission Creek

PROPOSAL NO.:

LP24060T

FIELD	Trips	Hrs.			Rate		Total	
Soil Technician-Onsite Compaction Project Engineer (Meeting)	6	36 2	@ @ Subtotal:	\$	130.00 200.00	\$ \$ \$	4,680.00 400.00 5,080.00	
LABORATORY								
Maximum Density/Optimum Moisture		2	@ Subtotal:	\$	210.00	\$	420.00 420.00	
PROJECT MANAGEMENT - REPORTS		S	10% Subtotal:	\$	5,500.00	\$	550.00	
			TOTAL:			\$	6,050.00	

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## **ESTIMATE WORKSHEET - Civil**

**CLIENT:** 

**MSWD** 

PROJECT:

Mission Lakes Blvd. Emergency Watermain Repair

**LOCATION:** 

Mission Lakes Blvd. Crossing @ Mission Creek

PROPOSAL NO.:

LP24060T

FIELD	Trips	Hrs.			Rate		Total	
Soil Technician-Onsite Compaction Project Engineer (Meeting)	10	60 2	@ @ Subtotal:	\$ \$	130.00 200.00	\$ \$ \$	7,800.00 400.00 8,200.00	
LABORATORY								
Maximum Density/Optimum Mo	oisture	2	@ Subtotal:	\$	210.00	\$	420.00 420.00	
PROJECT MANAGEMENT - REPORTS		S	10% Subtotal:	\$	8,620.00	\$	862.00 862.00	
			TOTAL:			\$	9,482.00	

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## **ESTIMATE WORKSHEET - Civil**

CLIENT:

**MSWD** 

PROJECT: LOCATION:

Thomas Avenue Emergency Watermain Repair Thomas Avenue Crossing @ Mission Creek

PROPOSAL NO.:

LP24060T

FIELD	Trips	Hrs.			Rate		Total
Soil Technician-Onsite Compaction Project Engineer (Meeting)	8	48 2	@ @ Subtotal:	\$ \$	130.00 200.00	\$ \$ \$	6,240.00 400.00 6,640.00
LABORATORY							
Maximum Density/Optimum Mo	oisture	2	@ Subtotal:	\$	210.00	<u>\$</u> \$	420.00 420.00
PROJECT MANAGEMENT - REPORTS		rs .	10% Subtotal:	\$	7,060.00	<u>\$</u> \$	706.00 706.00
			TOTAL:			\$	7,766.00

LandMark Consultants April 2024

## Landmark Consultants, Inc. 2023/2024 Standard Fee Schedule

PROFESCIONAL PATES

MATERIAL C TECTING COLUMNET FIELD

PROFESSIONAL RATES (HOURLY)		MATERIALS TESTING EQUIPMENT-FIELD (DAILY RATES)	
Principal Engineer	\$250	Swiss Hammer (Concrete)	\$75
Senior Engineer	\$195	Masonry Mortar Penetrometer	\$75
Project Engineer	\$200	Vibrating Probe (Concrete)	\$90
Staff Engineer	\$145	Generator	\$150
Assistant Engineer	\$135	Coring Machine	\$150
Operations Manager	\$170	2" Diamond Bit/Core	\$40
Senior Geologist	\$195	3" Diamond Bit/Core	\$50
Project Geologist	\$170	4" Diamond Bit/Core	\$60
Staff Geologist	\$145	6" Diamond Bit/Core	\$80
* \$25/hr added for all investigative work with legal (court) cases		8" Diamond Bit/Core	\$100
* \$100/hr added for all depositions/court appearances w/ 4-hr min		Rebar Locator (R-Meter)	\$85
TECHNICAL RATES (*)		COMPACTION CURVES	
Testing Technician-(Concrete/Masonry/Soils/Asphalt)	\$95.00	Relative Compaction (CAL 216)	\$250
Special Inspector-(Masonry, Steel, Concrete, Welding & Bolt)	\$99.00	Standard 4" Mold, D698 Method A	\$200
Laboratory Technician	\$86.50	Standard 6" Mold, D698 Method B,C,D	\$225
Admin. Support Staff	\$90	Modified 4" Mold, D1557 Method A	\$210
Drafting	\$95	Modified 6" Mold, D1557 Method B,C,D	\$240
Copies of Reports (Min)	\$75	Relative Density	\$450
		Relative Compaction	\$250
* \$35/hr added for all Testing/Laboratory Technician for PW rat * \$41/hr added for all Special Inspector for PW rate	e	SOIL & AGGREGATE STABILITY	
EQUIPMENT/MATERIAL CHARGES		R-Value (CAL 301)	\$315
		CBR 100% Compaction	\$650
2 & 4 WD Vehicle (per mile)	\$0.90	Soil Cement, CTB, Mix Design	\$5,000
Tow-Behind Auger (per day)	\$150	CTB Compression Test	\$100
Truck Mounted Drilling (Flight Auger per hr.)	\$275	Soil-Lime Compression Test (Includes Prep)	\$750
Truck Mounted Drilling-(Prevailing Wage and Env. per hr.)	\$425		
Per Diem Technicians/Inspectors (per day) Per Diem Drillers (per day)	\$175 \$350	BASIC SOIL & AGGREGATE PROPERTIES	
Trip Charge (per day)	\$285	Sieve Analysis, Coarse & Fine Including Wash	\$135
Cone Penetrometer Mob	\$2,000	Sieve Analysis, Coarse (CAL 202)	\$125
Piezocone and Stratigraphic Plots (per ft.)	\$15	Sieve Analysis, Fine Including Wash	\$125
Resistivity, Piezocone Testing (per ft.)	\$15	#200 Wash (CAL 202)	\$90
Seismic Piezocone Testing (per ft.)	\$30	Sand Equivalent-Average of 3 (CAL 217)	\$105
Per Diem (CPT)	\$325	Plasticity Index (CAL 204)	\$185
Grouting (per ft.)	\$8	Expansion Index (UBC 29-2)	\$150
Dozers, Backhoe, Portable Auger, etc.	\$Cost+10%	Moisture Determination and Unit Weight	\$50
2" diameter slotted PVC Piezometer	\$12	Moisture Determination Only	\$25
(w/filter sock & gravel pack per ft.)		Permeability Test (Undisturbed Samples) (D5084)	\$400
8" diameter cast-iron Piezometer cover	\$50	Permeability Test (Remolded Samples) (D5084)	\$480
		Hydrometer (Without Specific Gravity)	\$300
		Corrosivity Series (Resistivity, Ph, Sulfates, Chlorides)	\$245

#### Construction Administration/Project Management: 10% of Field & Laboratory Subtotal

2 hrs minimum will be charged for all field work and thereafter in actual hours. An overtime premium of 1.5 times the standard rate will be charged for all personnel services periods in excess of 8 hrs per day or Saturday, and 2 times the standard rate for work in excess of 12 hrs per week day, in excess of 8 hrs on Saturday, and all day on Sunday or holidays. ICC inspection will be charged 4 hrs minimum

# Landmark Consultants, Inc. 2023/2024 Standard Fee Schedule

	SHEAR STRENGTH & CONSOLIDATION TEST		ASPHALT	
	Unconfined Compression	\$140	Agg. Corr. Factor Ignition (Lab Mix)	\$480
4	Direct Shear (3pt. Staged Test)	\$370	Extraction % Bitumen (Reflux Method)-Inc. Shipping	quote
	Consolidation, Per load Increment w/ Time Rate	\$125	%Bitumen (Ignition Oven /Gradation of Extracted Sample)	\$265
	Consolidation Test w/ Time Rate	\$450	Stabilometer Test on Premixed Sample (CAL 366) Inc. Hveem Max. Density	\$420
	AGGREGATE QUALITY		%Bitumen (Ignition Oven) (CAL 382) Complete Design of Wearing Surface for a Given	\$150
	Organic Impurities (CAL 213)	\$110	Asphalt/Aggregate, Hveem (CAL 367)	quote
	Specific Gravity and Absorption, Coarse Aggregate (CAL 206)	\$85	Stability & Flow on Premixed Sample (Set of 3)	
	Specific Gravity and Absorption, Fine Aggregate (CAL 207/208)	\$110	Inc. Marshall Max. Density	\$420
	Unit Weight (Average of 3) (CAL 212)	\$75	Marshall Stability & Flow (Set of 4) Lab Mix	
	Los Angeles Rattler Test-500 Revs (CAL 211)	\$190	Inc. Marshall Max. Density	<b>\$49</b> 0
	Los Angeles Rattler Test-1000 Revs (CAL 211)	\$210	Unit Weight of Asphalt Core (CAL 308)	\$55
	Sulfate Soundness 5 cycle test per primary size (C88)	\$145	Max Density of Mix by Marshall/Hveem Method	\$200
	Mortar Making Properties of Sand (CAL 515)	\$510	(Without Mixing)	
	Potential Reactivity Test (ASTM C289)	\$990	Maximum Theoretical Specific Gravity (CAL 309)	\$210
	Cleanness Value Test (CAL 227)	\$160	Maximum Theoretical Specific Gravity (ASTM D2041)	\$150
	% Crushed Particles (CAL 205)	\$125	Index of Retained Strength	\$950
	Flat & Elongated Particles per screen size (D4791)	\$80	Tensile Strength Ratio (CAL 371)	\$1,250
	Clay Lumps and Friable Particles (C142)	\$160	Tensile Stress Ratio	\$800
	Lightweight Pieces in Aggregate (C123)	\$330	Stripping (CAL 302)	\$200
	Durability Index-Coarse or Fine (CAL 229)	\$180	METALS	
	MASONRY		Torritor III to 270 Oracle I and Franchista Comp	ድርር
	0	#G.G	Tensile, Up to ¾" (Not Including Machining Cost)	\$90
	Compression Test, Grout Prisms	\$33	Greater than ¾"	\$150
	Compression Test, Mortar Cube/Cylinder	\$33	Bend	<b>\$9</b> 0
	Compression Test, Masonry Unit	\$60 \$150	WEIDING OUT THE CATIONS STRUCTURAL STEEL	
	Compression Test, Masonry Prism (Grouted)	\$150	WELDING QUALIFICATIONS - STRUCTURAL STEEL (PHYSICAL TEST METHOD - ASTM, AWS, API, AISC)	
	Absorption and Received Moisture, Masonry Unit (Unit weight, 3 required)	200	(FRISICAL IESI METHOD - ASIM, AWS, AFI, AISC)	•
	Grout or Mortar Specimen, Handled & Cured But Not Tested	\$33	* Visual Inspection	\$97
	Bond Test (Shear) for grout/masonry interface (DSA)	\$110	* Magnetic Particle/Ultrasonic Testing	\$230
	Bolld Test (Silear) for group masonly interface (DSA)	3110	Operator Performance & Procedure Tests	\$110
			Machining & Material Costs	\$85
	CONCRETE		Qualification Tests on Machined Coupons	\$200
	Concrete Mix Design or Review	m = 0.0		
	(Not Including Lab Test)	\$500		
	Laboratory Trial Batch, Incl. Compression			
	Testing of 6 Specimens	quote		
	Compression Test, Concrete Cylinder (CAL 521)	S31		
	Unit Weight of Concrete Cylinders (CAL 518)	\$50 \$105		
	Flexural Strength, Concrete Beam (CAL 523) Compression Test, Gunite	\$70		
	Compression Test on Cored Specimens	\$70 \$70		
	Cylinder Molds (if not tested by Landmark)	\$10		
	Drying Shrinkage Test, Set of 3 (CAL 537)	\$500		
	Modulus of Elasticity of 6"x12" Concrete Cylinder	\$300		
	Splitting Tensile Strength	\$95		
	Chloride Ion Determination (Water Soluble)	\$350		
	Chronice for Determination (Water Soldole)	٥٥٥٥		