

**NEW BUSINESS**

**ITEM E-3:**  
**STREET IMPROVEMENT PROJECT – PHASE II**  
*Geotechnical Quality Control Services*

DATE SUBMITTED 05/01/15  
 SUBMITTED BY PLANNING DIRECTOR  
 DATE ACTION REQUIRED 05/06/15

COUNCIL ACTION (X)  
 PUBLIC HEARING REQUIRED ( )  
 RESOLUTION ( )  
 ORDINANCE 1<sup>ST</sup> READING ( )  
 ORDINANCE 2<sup>ND</sup> READING ( )  
 CITY CLERK'S INITIALS ( )

**IMPERIAL CITY COUNCIL  
 AGENDA ITEM**

SUBJECT: DISCUSSION/ACTION:  
 STREET IMPROVEMENT PROJECT  
 ASPHALT RUBBER COMPOSITE LAYER OVERLAY  
 ON DESIGNATED STREETS.  
**1. AWARD OF CONTRACT TO PROVIDE THE NECESSARY  
 GEOTECHNICAL QUALITY CONTROL SERVICES FOR THE  
 WOTK RELATED TO ASPHALT RUBBER COMPOSITE LAYER  
 OVERLAY PROJECT ON DESIGNATED STREETS.**  
 CITY OF IMPERIAL BID NO. 2015 - 01

DEPARTMENT INVOLVED: PLANNING

BACKGROUND/SUMMARY:

The City was able to obtain funding through Local Transportation Authority (LTA) funds. Construction project plans were prepared by the Engineering Division of the City's Planning & Development Department.

Staff released a Request for Quotation on April 14 to solicit Proposals from local qualified and experienced geotechnical professionals and firms to provide Geotechnical Quality Control Services for the construction work as specified in the Construction project plans.

A total of two (2) proposals were received. Staff reviewed and ranked each respondent. Staff is recommending that a contract be awarded to "Sierra Material Testing & Inspection, Inc." in the amount of \$32,832.00 to be paid with LTA funds.

FISCAL IMPACT: \$32,832.00

F.O. INITIALS: \_\_\_\_\_

STAFF RECOMMENDATION:

Staff recommend award of contract to "*Sierra Material Testing & Inspection, Inc.*" in the amount of ***\$\$32,832.00.***

MANAGER'S RECOMMENDATION:

MANAGER'S INITIALS

MOTION:



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

77-948 Wildcat Drive  
Palm Desert, CA 92211  
(760) 360-0665  
(760) 360-0521 fax

April 16, 2015

Mr. Jesus Villegas  
City of Imperial  
420 S. Imperial Avenue  
Imperial, CA 92251

**Cost Proposal for Quality Control Testing  
Various Streets Improvements ARAM Overlay – Phase 2  
Imperial, California  
LCI Proposal No. L15-053T**

Dear Mr. Villegas:

Pursuant to your request, we are providing a unit rate proposal for Quality Control Testing services associated with the Various Streets Improvements ARAM Overlay Phase 2 project in Imperial, California. Our fees are based on the contractor’s (API) estimated schedule

**Field (1 day = 8 hours portal to portal 1 technician)**

Compaction Testing Under Concrete – 1 day @ \$720/day	\$720
Asphalt Compaction Testing (Leveling Course) - 6 days @ \$720/day	\$4,320
Asphalt Batch Plant Inspection (Leveling Course) - 6 days @ \$720/day	\$4,320
3/8" ARAM Chips Sampling/Observation – 6 days @ \$720/day	\$4,320
ARHM Compaction Testing (Final Course) - 4 days @ \$720/day	\$2,880
ARHM Batch Plant Inspection (Final Course) - 4 days @ \$720/day	\$2,880
Slurry Seal Sampling and Observation – 8 days @ \$720/day	\$5,760
Concrete Sampling - 1 day @ \$720/day	\$720
Concrete Cylinder Retrievals – 2 trips (2 hrs.) @ \$180/trip	\$360
Vehicle Trip Charge (Salton Sea Beach Plant) – 10 trips @ \$30/trip	\$300
<b>Field Sub-Total:</b>	<b>\$26,580</b>

**Laboratory**

Maximum Density (Native) – 1 @ \$200	\$200
Class 2 Aggregate Base Conformance Testing – 1 @ \$830 ea.	\$830
HVEEM Density (1 per day) – 10 @ \$200 ea.	\$2,000
Oil Content – 18 @ \$125	\$2,250
Sieve Analysis for Asphalt (4 per sample) – 40 @ \$85 ea.	\$3,400
Sieve Analysis for 3/8" Chips (1 per sample) – 6 @ \$85 ea.	\$510
Sieve Analysis for Slurry (1 per sample) – 8 @ \$85 ea.	\$680
Sand Equivalent (1 per sample) – 10 @ \$90 ea.	\$900
Moisture Content (Plant) – 8 @ \$20 ea.	\$160
Concrete Cylinder Compression Tests (set of 4) – 2 @ \$110 ea.	\$220

**Laboratory Sub-Total: \$9,350**

**Review and Reports**

\$2,750

**Total: \$38,680**

A 2-hour minimum charge shall apply to all field testing services and shall accrue in two hour increments. Overtime hours (after 3 pm weekdays, over 8 hours per day, and anytime Saturdays) shall be invoiced at 1.5 times the normal rate of \$90 per hour and double time hours (Sundays and over 12 hours per day) shall be invoiced at 2.0 times normal rates.

The opportunity to assist in providing quality assurance for this project is appreciated. Our laboratory is Caltrans, AASHTO, AMRL and CCRL certified.

Sincerely Yours,

*Landmark Consultants, Inc.*



Randy O. Lyon  
Vice President



April 15, 2015

Mr. Jesus Villegas  
City of Imperial  
420 South Imperial Avenue  
Imperial, CA 92252

**SUBJECT: PROPOSAL FOR GEOTECHNICAL & MATERIAL TESTING SERVICES**  
**City of Imperial Street Improvements Project – Phase 2**  
**Bid No. 2015-01**  
**Sierra MTI Proposal No. EC15-019**

Dear Mr. Villegas:

Sierra Material Testing & Inspection, Inc. (Sierra MTI) is pleased to present this proposal to provide Soils & Geotechnical Engineering & Materials Testing Services for the City of Imperial Street Improvements Project – Phase II. The following scope of work and costs were estimated from the documents provided by you. Our hourly prevailing wage rate is \$87/hour and includes a field technician, testing equipment, and vehicle. The actual cost of our services will depend upon your construction schedule and the amount of time we are required to be on site.

### **SCOPE OF SERVICES**

In general, we will provide onsite personnel to perform observation and testing during earthwork construction, asphalt concrete, ARHM, ARAM and slurry placement, as well as concrete sampling and testing. Our services will include:

- Observation, sampling, and compaction testing of Class II Base.
- Laboratory testing of Class II Base.
- Observation, sampling, and compaction testing of asphalt concrete, ARHM, ARAM & Slurry.
- Laboratory testing of asphalt concrete, ARHM and ARAM.

- Testing and sampling of concrete
- Laboratory testing of concrete

**ESTIMATED FEES**

The following estimated costs are based on a tentative schedule and the frequency of testing outlined in the project specifications and the materials quantities included in the project specifications. Our fees will be billed in accordance with the unit rates of our Schedule of Fees. We agree to proceed on a time & materials basis, not to exceed the total cost for hours and tests indicated. A breakdown of our estimated fee is provided below. As per your information, we are estimating that there will be 19 days of materials testing services required.

**CLASS II BASE, AC, ARHM, ARAM and SLURRY**

**FIELD TESTING AND OBSERVATION**

Field Technician 18 days (144 hours @\$87/hr) .....	\$12,528
Field Technician -- Batch Plant --7 days (56 hours @\$87/hr) .....	\$ 4,872

**LABORATORY TESTING**

Proctor-ASTM D1557 (1 @\$160) .....	\$ 160
Class II Base Full Conformance (1 @ \$835) .....	\$ 835
Durability Index-CT229 (1 @ \$150) .....	\$ 150
Sieve Analysis-CT202 (60 @ \$95) .....	\$ 5,700
Sand Equivalent-CT217 (18@ \$85).....	\$ 1,530
Bitumen Extraction (18 @ \$100) .....	\$ 1,800
Hveem Density (7 @ \$185).....	\$ 1,295
Cleanness Value (10 @ \$110).....	\$ 1,100
Moisture Content (5 @ \$20) .....	\$ 120

**CONCRETE IMPROVEMENTS**

**FIELD TESTING AND OBSERVATION**

Field Technician 2 days (12 hours @\$87/hr) .....	\$ 1,044
Field Technician –Pick up -- (4 hours @\$87/hr) .....	\$ 348

**LABORATORY TESTING**

Concrete Compressive Strength (2 x 4 cylinders @\$25) ..... \$ 200

**REPORT PREPARATION**

Administration and Report Preparation ..... \$ 1,150

**Total Estimate \$ 32,832**

**CLOSURE**

If this proposal is acceptable, please sign and return one copy as our Notice to Proceed, or provide us with other suitable authorization. We look forward to working with you on this project. Please feel free to give us a call if you have any questions or comments, or if you need anything else.

Very truly yours,

**Sierra Material Testing & Inspection, Inc.**



Alex Rojas  
El Centro Area Manager