

March 30, 2015  
Proposal No. 12-00225

Ross Renner  
City of Maricopa  
39700 West Civic Center Plaza  
Maricopa, Arizona 85138

Subject: Proposal to Perform Materials Testing Services  
Public Works + Fire Maintenance Facility  
Maricopa, Arizona

Dear Mr. Renner:

Ninyo & Moore is pleased to submit the following proposal to perform materials testing services for the Public Works and Maintenance Facility in the City of Maricopa, Arizona. Ninyo & Moore currently has an On-Call Contract with the City of Peoria and the City of Maricopa intends to utilize the Cooperative Purchasing terms of that contract for the subject project. Ninyo & Moore is capable of performing a wide variety of geotechnical and materials inspection and testing services including soils and aggregates, asphalt concrete, reinforced concrete, masonry, pre-stressed concrete, structural steel, welding, roofing, and fireproofing. Since 1986, Ninyo & Moore has grown to 15 offices in Arizona, California, Nevada, Colorado, and Texas.

Ninyo & Moore laboratories are supervised by registered civil engineers and meet the requirements of American Society for Testing and Materials (ASTM) E329, ASTM C1077, ASTM D3740, and ASTM D3666. Ninyo & Moore's testing equipment is calibrated annually by representatives utilizing equipment traceable to the National Institute of Standards and Technology (NIST), and is regularly inspected by the Cement and Concrete Reference Laboratory (CCRL) and AASHTO's Material Reference Laboratory (AMRL).

## **PROPOSED SCOPE OF SERVICES**

The proposed scope of services is to perform materials testing services for the construction of a one story Heritage Fire Station building, driveway, parking lot, and a storm water retention basin. Ninyo & Moore anticipates that the following services will be needed during the construction phase:

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- Observation, testing, and sampling during the placement of soil, aggregate, masonry, grout, concrete and asphalt;
  - Laboratory testing of soil, aggregate, masonry, grout, concrete and asphalt materials; and
  - Project management, data processing, and report review services of field and laboratory testing reports.

### **FEE ESTIMATE**

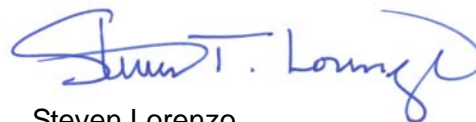
Ninyo & Moore estimates the materials testing services to be approximately \$48,578 (Forty Eight Thousand Five Hundred Seventy Eight Dollars). Please note that our estimated fee does not include stand-by time, or costs associated with retesting or re-inspecting materials that were found not to be in compliance with the project plans or specifications. Upon award of this project we request a meeting to review your schedule and our assumptions in preparing this proposal.

We appreciate the opportunity to submit this proposal to your firm, and look forward to working with you on this project. If you have questions or comments, please do not hesitate to contact the undersigned.

Sincerely,  
**NINYO & MOORE**



Craig Rees  
Construction Services Manager



Steven Lorenzo  
Principal

ECR/STL/clj

Attachment: Cost Estimate

Distribution: (1) Addressee (Electronic Copy)



## MATERIALS TESTING SERVICES COST ESTIMATE

**Project:** Public Works + Fire Maintenance Facility  
**Location:** Maricopa, Arizona

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### Earthwork

#### Engineering Technician

15	days @	8	hours/day @	\$50.00	\hour	\$6,000.00
36	days @	4	hours/day @	\$50.00	\hour	\$7,200.00

#### Trip Charge

51	trips @	\$50.00	\trip			\$2,550.00
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#### Laboratory Testing

Standard Proctors	6	samples @	\$125.00	\sample		\$750.00
Gradations	3	samples @	\$85.00	\sample		\$255.00
Atterberg Limits	3	samples @	\$85.00	\sample		\$255.00

<b>Earthwork Subtotal</b>						<b>\$17,010.00</b>
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### Concrete

#### Engineering Technician

Slab and PCCP	7	days @	6	hours/day @	\$50.00	\hour	\$2,100.00
Footings/Misc	18	days @	4	hours/day @	\$50.00	\hour	\$3,600.00
Sample Pickup	5	days @	2	hours/day @	\$50.00	\hour	\$500.00

#### Trip Charge

30	trips @	\$50.00	\trip			\$1,500.00
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#### Compression testing of cylinders

35	sets @	4	samples/set @	\$15.00	\sample	\$2,100.00
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<b>Concrete Subtotal</b>						<b>\$9,800.00</b>
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### Masonry

#### Engineering Technician

Site Walls	14	days @	4	hours/day @	\$50.00	\hour	\$2,800.00
Building	16	days @	4	hours/day @	\$50.00	\hour	\$3,200.00
Sample Pickup	10	days @	2	hours/day @	\$50.00	\hour	\$1,000.00

#### Trip Charge

40	trips @	\$50.00	\trip			\$2,000.00
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#### Compression Testing of Mortar specimens

6	sets @	4	samples/set @	\$15.00	\sample	\$360.00
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#### Compression Testing of Grout specimens

30	sets @	4	samples/set @	\$15.00	\sample	\$1,800.00
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#### Compression Testing of Masonry Prisms

4	sets @	4	samples/set @	\$100.00	\sample	\$1,600.00
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<b>Masonry Subtotal</b>						<b>\$12,760.00</b>
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### Asphalt

#### Engineering Technician

3	days @	8	hours/day @	\$50.00	\hour	\$1,200.00
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#### Coring Costs

1	day @	4	hours/day @	\$125.00	\hour	\$500.00
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#### Trip Charge

4	trips @	\$50.00	\trip			\$200.00
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#### Laboratory Testing

Marshall Density	2	samples @	\$100.00	\sample		\$200.00
Maximum Theoretical Density (Rice Test)	2	samples @	\$100.00	\sample		\$200.00
Extraction/Gradation	2	samples @	\$190.00	\sample		\$380.00
Core Density and Thickness	4	samples @	\$20.00	\sample		\$80.00

<b>Asphalt Subtotal</b>						<b>\$2,760.00</b>
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## MATERIALS TESTING SERVICES COST ESTIMATE

**Project:** Public Works + Fire Maintenance Facility  
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### Engineering Review, Consultation, and Data Processing

<u>Project Engineer</u>	4	hours @	\$102.00	\hour	\$408.00
<u>Project Manager</u>	45	hours @	\$96.00	\hour	\$4,320.00
<u>Data Processing</u>	40	hours @	\$38.00	\hour	\$1,520.00
<b>Engineering Subtotal</b>					<b>\$6,248.00</b>

**Total Cost Estimate for Material Testing and Inspection Services**

**\$48,578.00**

#### **Assumptions:**

- 1) Project will be serviced from 3202 East Harbour Drive, Phoenix, Arizona.
- 2) Engineering technician time will be billed on a portal to portal basis.
- 3) Materials testing services will be on a time and materials basis.
- 4) Lab tests are estimated and will be charged based on work performed.
- 5) Lead time for requested service is 24 hours.
- 6) Field technician rates are based on a 3-hour minimum.