

**From:** spo  
**Sent:** Wednesday, November 16, 2011 10:50 AM  
**To:** spo  
**Subject:** SPO ALERT - Focus Group Notice for re-bid of Contract Set T0620-0027 Mineral Aggregate  
**Attachments:** T0620-0027 Section 1 Specifications.pdf

SPO Alert

**Date:** November 16, 2011

**To:** State Agency Chief Procurement Officers, Cooperative Program membership

**From:** SPO on behalf of the Arizona Department of Transportation

**Re:** Rebid of Contract Set T0620-0027 Aggregate Base, Cover Material, Mineral Aggregate, Rip Rap, Washed Mortar Sand and Washed Concrete Sand

ADOT Procurement will be holding a focus group to rebid the Aggregate Base, Cover Material, Mineral Aggregate, Rip Rap, Washed Mortar Sand and Washed Concrete Sand Contract T0620-0027.

Please bring any requirements you would like to discuss at this meeting.

- **Date:** Monday, November 21, 2011
- **Time:** 1:00 – 3:00 P.M.
- **Location:** ADOT Procurement – 1739 W. Jackson, Modular D, Arizona Conference Room

Attached are the current specifications for your review.

R.S.V.P. to Christina Jimenez at [cjimenez@azdot.gov](mailto:cjimenez@azdot.gov) by Friday, November 18, 2011

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SPO ALERTS are available  
online at <http://spo.az.gov>

**SECTION 1  
SPECIFICATIONS**

ARIZONA DEPARTMENT OF TRANSPORTATION  
Procurement Group  
1739 West Jackson, Suite A, 100P  
Phoenix, Arizona 85007-3276  
Phone: (602) 712-7211

**SOLICITATION NO. T06-20-00027**

**1. PURPOSE**

The Arizona Department of Transportation (ADOT), on behalf of the State of Arizona (hereinafter referred to as the State), has a requirement for a term contract for Aggregate Base, Cover Material, Mineral Aggregate, Rip Rap, Washed Mortar Sand and Washed Concrete Sand, for (Delivery and Plant Pick-Up). The material provided shall be in full accordance with ADOT's Standard Specifications for Road and Bridge Construction, 2000 edition and manufactured in accordance with the attached drawings, Pages 30 through 35.

Copies of the 2000 Edition Standard Specifications for Road and Bridge Construction may be purchased by contacting: Arizona Department of Transportation, Engineering Records, 1655 W. Jackson, Room 122F, Phoenix, AZ 85007, Telephone (602) 712-7498

**2. SPECIFICATIONS**

**AGGREGATE BASE**

Aggregate base ¾", 1" & 1 ½" Material.

Aggregate base material shall consist of stone, gravel or other approved inert material and similar characteristics, and shall be clean and free from vegetable matter and other deleterious substances.

Class 1 and Class 2 aggregate base material shall meet the specifications of Section 303-2 of the Arizona Department of Transportation Standard Specifications for Road and Bridge Construction 2000.

Aggregate Class	Percent Passing Sieve (Inch or No.)					PI Max.
	1-1/2"	1"	¾"	8	200	
1		100	90 - 100	35 - 55	0 - 8.0	3
2	100	90 - 100		35 - 55	0 - 8.0	3

The percentage, by weight, passing each sieve will be determined in accordance with the requirements of Arizona Test Method 201.

The PI (Plasticity Index) will be determined in accordance with the requirements of AASHTO T 90.

At least 30 percent by weight, of the aggregate materials retained on the No. 8 sieve shall have at least one rough and angular surface, which has been produced by crushing, when tested in accordance with the requirements of Arizona Test Method 212.

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Resistance to abrasion for aggregate will be determined in accordance with the requirements of AASHTO T 96 and shall meet the following requirements:

Maximum loss of 9 percent at 100 revolutions  
Maximum loss of 40 percent at 500 revolutions

**COVER MATERIAL**

<u>SIEVE SIZE</u>	<u>PERCENT PASSING</u>
3/8	100
No. 4	0-25
No. 8	0-5
No. 200	0-2.0

Aggregate for cover material shall be of clean sand, gravel or crushed rock and shall be free from lumps or balls of clay and shall not contain calcareous or clay coatings, caliche, synthetic materials, organic matter or foreign substances.

The loss on abrasion will be determined in accordance with the requirements of AASHTO T 96 and shall meet the following requirements:

Maximum loss of 9 percent at 100 revolutions.  
Maximum loss of 40 percent at 500 revolutions.

The percent of carbonates in aggregate shall be a maximum of 30 when tested in accordance with the requirements of Arizona Test Method 238.

The percent of crushed faces shall be at least 70 when tested in accordance with the requirements of Arizona Test Method 212.

The Flakiness Index shall be a maximum of 25 when tested in accordance with the requirements of Arizona Test Method 233.

The Bulk Oven Dry Specific Gravity shall range from 2.30 to 2.85 when tested in accordance with the requirements of Arizona Test Method 210.

**MINERAL AGGREGATE SPECIFICATION #1**

<u>SIEVE SIZE</u>	<u>PERCENT PASSING</u>
3/4"	100
1/2"	90-100
3/8"	70-85
No. 8	42-52
No. 200	3.0-6.5

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**MINERAL AGGREGATE SPECIFICATION #2**

<b>SIEVE SIZE</b>	<b>PERCENT PASSING</b>
1/2"	100
3/8"	80-100
No. 8	35-65
No. 200	2.0-10.0

**Stockpiling of the mineral aggregate shall be the responsibility of the contractor. Proper care shall be exercised to prevent segregation and degradation of the stockpiles.**

Fine mineral aggregate shall consist of natural sand or of sand prepared from rock, or other approved inert materials, or a combination thereof, conforming to the requirements of the specifications.

Acceptance samples will be taken by the States personnel from the delivery site, prior to stockpiling.

The Mineral Aggregate, when delivered to the site shall not have more than five percent (5%) moisture content present. Moisture content above five percent (5%) shall be deducted from the total weight of material represented by the sample.

The represented quantity, minus the weight of moisture content above five percent (5%), will be paid at the unit price.

The sand equivalent shall be a minimum of 55 when tested in accordance with AASHTO T 176.

The percent of carbonates (limestone's) will be determined in accordance with the requirements of Arizona Test Method 238 and shall be a maximum of 30%.

The percent of fractured coarse aggregate particles will be determined in accordance with the requirements of Arizona Test Method 212, and shall be a minimum of 50%.

The loss of abrasion will be determined in accordance with the requirements of AASHTO T 96 and shall meet the following requirements:

Maximum loss of 9 percent to 100 revolutions  
Maximum loss of 40 percent at 500 revolutions

**RIP RAP**

1. The grading shall meet the following diameter requirements:  
Type A: 4" – 8"

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Type B: 1' – 2'

Control of the gradation will be by visual inspection by the State.

2. Rock for gabions shall be well graded, varying in size from four to eight inches and one foot to two feet.
3. Rock shall be sound and durable, free from clay or shale seams, cracks or other structural defects.
4. Bulk Specific Gravity (SSD) shall be determined in accordance with the requirements of AASHTO T85 and shall be a minimum of 2.4.
5. Rip rap shall be angular in shape, unless otherwise specified. Rock shall have a least dimension not less than one-third of its greatest dimension and a gradation in reasonable conformity.
6. The approval of some rock fragments from a particular quarry site shall not be construed as constituting the approval of all rock fragments taken from that quarry.

**WASHED CONCRETE SAND**

Grading shall meet the following requirements when tested in accordance with the requirements of Arizona Test Method 201:

<b>SIEVE SIZE</b>	<b>PERCENTAGE PASSING</b>
3/8"	100
No. 4	95-100
No. 16	45-80
No. 50	0-30
No. 100	0-10
No. 200	0-4-0

**GENERAL CONCRETE SAND REQUIREMENTS**

The contractor or supplier shall furnish evidence that the washed sand meets the above requirements. Valid test results obtained in accordance with the above referenced test method shall accompany delivery invoice.

Washed sand shall be a natural or crushed sand, or other approved inert material with similar characteristics composed of clean, hard, strong, durable, uncoated particles. Washed sand shall be free of deleterious amounts of soft or flaky particles, loam, caliche, ice, frost, organic matter or clay lumps.

# SECTION 1 SPECIFICATIONS

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Washed sand, when used for concrete fine aggregate shall have an average sand equivalent value of not less than 75 when tested in accordance with the requirements of AASHTO T 176.

Contractor or supplier shall indicate the average moisture content on the weight ticket of the final load of each shipment ordered.

## **WASHED MORTAR SAND**

The washed mortar material shall be in accordance with the following:

MAG Spec of Uniform Standard Specifications and Details for Public Works Construction, latest edition, Part 700 Materials, 701.3 Sand for the specifics.

### **3. GENERAL REQUIREMENTS**

Materials shall be tested for color and gradation compliance prior to and after award of contract. See Special Terms and Conditions regarding samples.

All materials supplied shall comply with the Arizona Department of Transportation 2000 Standard Specifications for Road and Bridge Construction, including but not limited to:

Pit Clearance from the State's Environmental Planning Section at (602) 712-7767  
(<http://www.ADOTenvironmental.com>)

Material approved from the ADOT Materials Specification Group at (602) 712-8930  
(<http://www.dot.az.gov/ABOUT/materials/index.htm>)  
(<http://www.dot.state.az.us/ABOUT/materials/index.htm>).

Section 1001-Material Sources – See Exhibit 2

Section 104 – Environmental Analysis – See Exhibit 3

All sources of mineral aggregate (i.e. stone, gravel, cinders, sand, etc.) must be approved in accordance with Section 1001 of the Departments 2000 Standard Specifications for Road and Bridge Construction. This includes the submission and approval of an environmental analysis prepared in accordance with Subsection 104.12.

If the State determines that the proposed use will have major adverse impact on cultural or historic resources, the State will not allow the use of the source.