ORANGE WATER AND SEWER AUTHORITY
REQUEST FOR BIDS

BID TITLE:
2023 Stone Procurement

DATE OF ISSUE: April 18, 2023

BID OPENING DATE: May 1, 2023

TIME: 2:00 PM

LOCATION:
ORANGE WATER & SEWER AUTHORITY
400 JONES FERRY ROAD
CARRBORO, NORTH CAROLINA 27510
PHONE: (919) 968-4421

NOTICE AND
INSTRUCTIONS TO
BIDDERS

Bids will be received by the Orange Water and Sewer Authority (hereinafter referred to as OWASA), to provide stone as specified in this Request for Bids (hereinafter referred to as RFB) until 2:00 PM on May 1, 2023 at the OWASA, 400 Jones Ferry Road, Carrboro NC 27510.

Bids must be submitted showing unit price fully extended on the Bid Sheet in an envelope addressed to the Formal Bid Opening, Stone Procurement RFB; Orange Water and Sewer Authority, Attention Kelly Satterfield, 400 Jones Ferry Road, Carrboro NC 27510.

Aggregate materials must meet all minimum specifications and be the kind and type specified, or an approved equivalent. Quoted price should not include any sales or usage taxes but should only reflect the actual bid price of the materials.

All bids shall be valid for a period of 60 days pending OWASA Executive Director's approval or awarding of a contract.

All bids shall be notarized. Bidders responding to this RFB are hereby notified that NC General Statutes relating to letting of bids will be observed in receiving bids and awarding contract.

All bids shall include delivery upcharge to OWASA for deliveries within 48 hours or order. All materials should adhere to NCDOT specifications as written in the specifications below. Bidder must meet all the above requirements for bid to be considered.

OWASA reserves the right to reject any or all bids, to waive informalities, and to accept any bid which, in the opinion of OWASA, appears to be in its best interest.

This RFB and all Bidder responses are considered public information, except for trade secrets specifically identified in writing by the Bidder, which will be handled according to State Statute or other laws. Any section of the Bidder's response package that is deemed to be a trade secret by the Bidder shall be submitted in a separate envelope clearly marked "TRADE SECRET INFORMATION- DO NOT DISCLOSE."

For any questions regarding this bid, please contact Kelly Satterfield, at ksatterfield@owasa.org.

ORANGE WATER AND SEWER AUTHORITY
Material Specifications

Quantity – See Bid Sheet below

General Description: Aggregate/Stone and Erosion Control Stone/Rip Rap Materials

- **NCDOT Aggregate Specifications: Section 1005**

GENERAL REQUIREMENTS FOR AGGREGATE

1005-1 GENERAL

Obtain aggregates from sources participating in the Department's Aggregate QC/QA Program as described in Section 1006. Obtain aggregates from pre-approved sources, or have the source approved before use. Approval of such sources is based not only on the quality of the aggregate, but also on satisfactory production facilities and procedures. A list of approved aggregate sources participating in the Department's Aggregate QC/QA Program in Section 1005.

North Carolina and adjoining states is available from the Materials and Tests Unit. This list includes aggregates meeting Specification requirements but whose use is restricted due to history of unsatisfactory service performance. Use of aggregates is allowed in the work provided they have been properly stockpiled in units of not less than 300 tons, tests of representative samples of these aggregates indicate satisfactory compliance with the Specifications and the source meets all the requirements of the Aggregate QC/QA Program. Separate aggregate containing rock of more than one identifiable rock type or particles of visibly different degrees of weathering in amounts of 10% or more into each individual type. Aggregate is acceptable only if each type does not exceed the percentage of wear specified for a particular use. Blended aggregates from different sources are allowed if all aggregates meet the Specifications for soundness or resistance to abrasion.

1005-2 HANDLING AND STORING AGGREGATES

Handle and stockpile aggregates in such a manner to minimize segregation. Provide sites for aggregate stockpiles that are cleared, grubbed and cleaned with a firm, smooth and well drained ground surface. Maintain a cover of at least 3" of aggregate over the ground surface to avoid the inclusion of soil or foreign material. Operate trucks or other equipment on a stockpile in an acceptable manner.

Space or separate with suitable walls or partitions stockpiles of different types or sizes of aggregates to prevent the mixing of the aggregates. Identify stockpiles with signs that can be read from a distance of at least 50 ft from the pile. Do not allow the stockpile to become contaminated with foreign matter or degrade excessively. Failure of aggregate samples to meet all gradation requirements due to excessive degradation will be determined by sieve tests of samples taken from any portion of the stockpile and is cause for discontinuance of such stockpiling

procedure. Use material that consists mainly of rock dust produced through normal handling of the aggregate and that is essentially free from clay or shale.

1005-3 GRADATION

Grade all standard sizes of aggregate to meet Tables 1005-1 or 1005-2.

1005-4 TESTING

Aggregates will be tested in accordance with the test methods below except where other test procedures are required by other articles covering a particular application.

Property	Test Method
Gradation	AASHTO T 27 and T11, AASHTO T 88 as Modified for Base Course and Stabilizer
Liquid Limit	AASHTO T 89 as Modified
Plasticity Index	AASHTO T 90
Resistance to Abrasion (Percentage of Wear)	AASHTO T 96
Soundness	AASHTO T 104 Using Sodium Sulfate

Copies of modified test procedures are available from the Materials and Tests Unit.

TABLE 1005-1
AGGREGATE GRADATION - COARSE AGGREGATE

Std. Size #	Percentage of Total by Weight Passing											Remarks
	2"	1 1/2"	1"	3/4"	1/2"	#4	#8	1/2"	#10	#16	#40	#200	
4	100	90-100	20-55	0-15	-	-	-	-	-	-	-	0-0.6[A]	Asphalt Plant Mix
467M	100	95-100	-	35-70	-	0-5	-	-	-	-	-	0-0.6[A]	Asphalt Plant Mix
5	-	100	90-100	20-55	0-10	-	-	0-10	-	-	-	0-0.6[A]	AST Mat Coat, Sediment Control Stone
57	-	100	95-100	-	25-60	0-10	0-5	25-60	-	-	-	0-0.6[A]	AST, Str. Conc., Shoulder Drain, Sediment Control Stone
57M	-	100	95-100	-	25-45	0-10	0-5	25-45	-	-	-	0-0.6[A]	AST, Portland Cement
6M	-	-	100	90-100	20-55	0-8	-	20-55	-	-	-	-	AST, Concrete Pavement
67	-	-	100	90-100	-	0-10	0-5	-	-	-	-	0-0.6[A]	AST
78M	-	-	-	100	98-100	20-45	0-15	98-100	-	-	-	0-0.6[A]	AST, Str. Conc., Drilled Piers, Asphalt Plant Mix
14M	-	-	-	-	-	35-70	5-20	-	-	0-8	-	0-0.6[A]	Asphalt Plant Mix, AST, Weep Hole Drains, Str. Concrete
9	-	-	-	-	-	85-100	10-40	-	-	0-10	-	0-0.6[A]	AST
ABC	-	100	75-97	-	55-80	35-55	-	55-80	25-45	-	14-30	4-12[B]	-
ABC (M)	-	-	-	-	100	5-40	0-20	100	-	0-10	-	0-2.5[B]	Aggregate Stabilization, Aggregate/Base Course, Asphalt Plant Mix
Light-weight	-	100	75- 100	-	45-79	20- 40	-	45-79	0- 25	-	-	0-12	AST

A. See Subarticle 1005-4(A).
B. See Subarticle 1005-4(B).

(A) When aggregates are used for Portland cement concrete, asphalt treatment and asphalt plant mix, the requirements pertaining to material passing the No. 200 sieve are as follows:

(1) When tested during production, the amount of material passing the No. 200 sieve shall be no greater than 0.6%. When tested in a stockpile at the quarry site, the amount of material passing the No. 200 sieve shall be no greater than 1.0%.

(2) When tested at the job site before use, the amount of material passing the No. 200 sieve shall:

(a) Be no greater than 1.5% for aggregate used in Portland cement concrete or asphalt surface treatment.

(b) Be no greater than 2.0% for aggregate used in asphalt plant mix.

(3) If a stockpile at the job site is found to contain in excess of the specified amount of material passing the No. 200 sieve before use, the Engineer may approve its use provided:

(a) For aggregate used in Portland cement concrete, the total percentage by weight passing the No. 200 sieve in the combined coarse and fine aggregate in the mix does not exceed 2.0%, and provided no increase in water-cement ratio is required by the use of this aggregate.

(b) For aggregate used in asphalt plant mix, the total percentage by weight of minus No. 200 material in the plant mix being produced, as determined by the extraction test, can be maintained within the limits allowed by the job mix formula.

(B) For ABC and ABC(M), in addition to the gradation requirements, the material passing the No. 40 sieve shall not have a LL in excess of 30 nor a PI in excess of 6. For ABC used in asphalt plant mix, when tested during production, in a stockpile at the quarry site or at the job site before use, the amount of material passing the No. 200 sieve shall be from 0.0% to 12.0% by weight and the gradation requirements for material passing the No. 10 sieve (soil mortar) required in Section 1010 for ABC will not apply. For ABC not used in asphalt plant mix, the gradation requirements for material passing the No. 10 sieve (soil mortar) will be as required in Section 1010.

TABLE 1005-2
AGGREGATE GRADATION FINE AGGREGATE

Std. Size #	**Percentage of Total by Weight Passing**								**Remarks**
	3/8"	**#4**	**#8**	**#16**	**#30**	**#50**	**#10**	**#200**	
1S	100	90-100		40-85		0-20		0-3	Blotting Sand, Asphalt Retreatment
2S	100	95-100	80-100	45-95	25-75	5-30	0-10	0-3	Concrete, Shotcrete, Grout, Subsurface Drainage, Blotting Sand
2MS		95-100	80-100	45-95	25-75	5-35	0-20	0-8[A]	Concrete, Shotcrete, Grout, Subsurface Drainage
4S		100	95-100			15-45	0-10	0-5	Mortar

- **NCDOT Rip Rap Material Specifications: Section 1042**

RIP RAP MATERIALS

Use field stone or rough unhewn quarry stone for plain rip rap. Use stone that is sound, tough, dense, resistant to the action of air and water and suitable in all other respects for the purpose intended. Where broken concrete from demolished structures or pavement is available, it may be used in place of stone provided that such use meets with the approval of the Engineer. However, the use of broken concrete that contains reinforcing steel will not be permitted.

All stone shall meet the approval of the Engineer. While no specific gradation is required, there shall be equal distribution of the various sizes of the stone within the required size range. The size of an individual stone particle will be determined by measuring its long dimension.

Stone or broken concrete for rip rap shall meet Table 1042-1 for the class and size distribution.

TABLE 1042-1
ACCEPTANCE CRITERIA FOR RIP RAP AND STONE FOR EROSION CONTROL

Class	Required Stone Sizes, inches		
	Minimum	Midrange	Maximum
A	2	4	6
B	5	8	12
1	5	10	17
2	9	14	23

No more than 5.0% of the material furnished can be less than the minimum size specified nor no more than 10.0% of the material can exceed the maximum size specified.

BID SHEET

To: Orange Water and Sewer Authority
400 Jones Ferry Road
Carrboro, NC 27510

The undersigned, as the bidder, hereby declares that this bid is made without connection to any other person, company, or parties making a similar bid or proposal and that the bid is in all respects fair and in good faith, without collusion or fraud.

The bidder has carefully examined the specifications and instructions to bidders and hereby declares that bidder will furnish the materials called for in the manner prescribed in the specifications and instructions to bidders for the following price:

Base Bid: Aggregate Materials

General Material Description	Qty	Unit	Unit Price	Total Price
NCDOT No 57/67 Stone	500	Ton	$	$
NCDOT Aggregate Base Course (ABC) Stone	3500	Ton	$	$
NCDOT No 78M Stone	250	Ton	$	$
NCDOT Surge Stone	250	Ton	$	$
NCDOT Class A Erosion Control Stone (Rip Rap)	250	Ton	$	$
NCDOT Class B Erosion Control Stone (Rip Rap)	250	Ton	$	$
Total Base Bid – Materials:				**$**

Note: Materials priced above FOB Quarry as addressed below.*

Quarry Name and Address: _____

_____

Add/Alternate: Delivery

General Description	Qty	Unit	Unit Price	Total Price
NCDOT No 57/67 Stone Delivery	500	Ton	$	$
NCDOT Aggregate Base Course (ABC) Stone Delivery	3500	Ton	$	$
NCDOT No 78M Stone Delivery	250	Ton	$	$
NCDOT Surge Stone Delivery	250	Ton	$	$
NCDOT Class A Rip Rap Delivery	250	Ton	$	$
NCDOT Class B Rip Rap Delivery	250	Ton	$	$
Fuel/Other Surcharge	5000	Ton	$	$
Total Add/Alternate - Delivery:				**$**

Note: Delivery pricing to be FOB Carrboro, NC 27510*

BID SIGNATURES

_____

Name of Business Submitting Proposal

_____

Signature of Authorized Representative/Title

_____

Print Name

_____

Address

_____

Email Address/Phone Number of Representative

Orange Water and Sewer Authority
Finance Department
400 Jones Ferry Road
Carrboro, NC 27510
ap@owasa.org

Name (as reported on your income tax return)_____

Business Name_____

Federal ID#_____ or SS#_____

Check one of the following:

Corporation_____Sole Proprietorship____Partnership____Other_____

Order Address	Payment Address
Street_____	Street_____
PO Box_____	PO Box_____
City_____	City_____
State_____	State_____
Zip Code_____	Zip Code_____
Contact Person_____	Contact Person_____
Phone Number_____	Phone Number_____
Fax Number_____	Fax Number_____
Terms_____	Discount_____
	E-Mail Address_____

Are you related to or have a professional relationship with any OWASA employee?_____Yes___No
(If you answered yes, the Relationship Vendor Form should be completed and included with this bid)

Are you a minority business enterprise? _____Yes _____No

If you answered yes, please check the appropriate box:

___African American
___American Indian
___Asian American
___Hispanic
___Female
___Socially and economically disadvantaged as defined in 15 U.S.C. 637

Product(s) and/or Service(s)
Please list the type of product(s) and/or service(s) that your company can provide:

_____
_____
_____

Signature:_____ Title_____

Orange Water and Sewer Authority
Finance Department
400 Jones Ferry Rd.
Carrboro, NC 27510

Relationship Vendor Form

If you are related to or have a professional relationship with any employee of Orange Water and Sewer Authority, this form must be completed and included with this bid.

Vendor Information:

Name: _____

Address: _____

Related OWASA employee: _____

Relationship to employee: _____

We agree that our relationship will not hinder or corrupt our professional relationship with Orange Water and Sewer Authority.

_____ _____
Vendor Signature Date

_____ _____
OWASA Employee Signature Date

Orange Water and Sewer Authority is aware and understands these parties have a relationship with each other. The decision to authorize the use of this vendor was not influenced in any manner by the relationship referenced above.

_____ _____
Department Manager Date

_____ _____
Finance Officer Date

E-VERIFY AFFIDAVIT

I,_____ (the individual attesting below), being duly authorized by and on behalf of _____ (the entity identified as the "Employer") after first being duly sworn hereby swears or affirms as follows:

1. Employer understands that E-Verify is the federal E-Verify program operated by the United States Department of Homeland Security and other federal agencies, or any successor or equivalent program used to verify the work authorization of newly hired employees pursuant to federal law in accordance with Article 2 of Chapter 64 of the North Carolina General Statutes.

2. Employer understands that Employers Must Use E-Verify. Each employer, after hiring an employee to work in the United States, shall verify the work authorization of the employee through E-Verify in accordance with Article 2 of Chapter 64 of the North Carolina General Statutes.

3. Employer will ensure compliance with E-Verify by any subcontractors subsequently hired by Employer for specified contracts subject to E-Verify entered into with the Orange Water and Sewer Authority.

This_____day of_____,_____.

_____ _____

Signature of Affiant Name of Affiant

State of_____County of _____ Signed and sworn to

(or affirmed) before me, this the _____day of_____,_____.

Notary Public:_____ My Commission Expires: _____

(Affix Official/Notarial Seal)

Name of Counterparty:

_____

_____