

BID SOLICITATION



STATE OF RHODE ISLAND AND PROVIDENCE PLANTATIONS
 CAPITOL HILL
 PROVIDENCE RI 02908

BID NUMBER: B06422
TITLE: PROCESSED SAND, GRAVEL & LOAM
BID OPENING DATE AND TIME:
06/26/2006 11:15 AM

BUYER: LISA HILL
 PHONE #: (401) 222 - 2142 ext. 116
 BLANKET PERIOD: 7/1/2006 - 6/30/2007

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**TRANSPORTATION
 DOT MAINTENANCE BUSINESS OFFICE
 360 LINCOLN AVE
 WARWICK RI 02888**

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**TRANSPORTATION
 DOT MAINTENANCE DIVISION
 MAIN OFFICE
 360 LINCOLN AVE
 WARWICK RI 02888**

Requisition Number(s): R70B070355

Item	Class-Item	Quantity	Unit	Unit Price	Total
	<p>BLANKET REQUIREMENTS: 7/1/06 - 6/30/07</p> <p>BIDDING</p> <p>(a) A single price shall be quoted for each item against which a proposal is submitted. This price will be the maximum in effect during the agreement period. Any price decline at the manufacturer's level shall be reflected in a reduction of the agreement price to the State.</p> <p>(b) Quantities, if any, are estimated only. The agreement shall cover the actual quantities ordering during the period. Deliveries will be billed at the single, firm, awarded unit price quoted regardless of the quantities ordered.</p> <p>(c) Bid price is net F.O.B. destination and shall include inside delivery at no extra cost.</p> <p>(d) Bids for single items and/or a small percentage of total items listed, may, at the State's sole option, be rejected as being non-responsive to the intent of this request.</p> <p>ORDERING</p> <p>(a) The User Agency(s) will submit individual orders for the various items and various quantities as may be required during the agreement period.</p> <p>(b) Exception - Regardless of any agreement resulting from this bid, the State reserves the right to solicit prices separately for any extra large requirements for delivery to specific destinations.</p>				

It is the Vendor's responsibility to check and download any and all addenda from the RIVIP. This offer may not be considered unless a signed RIVIP generated Bidder Certification Cover Form is attached and the Unit Price column is completed. The signed Certification Cover Form must be attached to the front of the offer. When delivering offers in person to One Capitol Hill, vendors are advised to allow at least one hour additional time for clearance through security checkpoints.

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RIVIP VENDOR ID#: _____

TERMS OF PAYMENT: _____

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Item	Class-Item	Quantity	Unit	Unit Price	Total
1.0	750-77 GRADED RIPRAP STONE R-3 - DELIVERED	100.00	TON		
2.0	750-77 GRADED RIPRAP STONE R-4 - DELIVERED	100.00	TON		
3.0	750-77 LOAM - DELIVERED	300.00	CY		
4.0	750-77 GRAVEL - RECLAIMED PROCESSED MATERIAL - DELIVERED	1000.00	TON		
5.0	750-77 CRUSHED STONE OR CRUSHED GRAVEL - DELIVERED	100.00	TON		
6.0	750-77 FILTER STONE - DELIVERED	30.00	TON		
7.0	750-77 FINE AGGREGATE FOR MORTAR - DELIVERED	140.00	TON		
8.0	750-77 GRADED RIPRAP STONE R-5 - DELIVERED	100.00	TON		
9.0	750-77 GRADED RIPRAP STONE R-3 - PICK-UP	100.00	TON		

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Item	Class-Item	Quantity	Unit	Unit Price	Total
10.0	750-77 GRADED RIPRAP STONE R-4 - PICK-UP	100.00	TON		
11.0	750-77 GRADED RIPRAP STONE R-5 -PICK-UP	100.00	TON		
12.0	750-77 LOAM - PICK-UP	800.00	CY		
13.0	750-77 GRAVEL - RECLAIMED PROCESSED MATERIAL - PICK-UP	100.00	TON		
14.0	750-77 CRUSHED STONE OR CRUSHED GRAVEL - PICK-UP	100.00	TON		
15.0	750-77 FILTER STONE - PICK-UP	100.00	TON		
16.0	750-77 FINE AGGREGATE FOR MORTAR - PICK-UP	100.00	TON		

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Item	Class-Item	Quantity	Unit	Unit Price	Total
	<p>DELIVERY LOCATIONS AS FOLLOWS:</p> <p>RT. 37, WARWICK (OFF JEFFERSON BLVD.) MIDSTATE, 2400 NEW LONDON AVE., EAST GREENWICH BELLEVILLE, 439 TOWER HILL ROAD, NORTH KINGSTOWN HOPE VALLEY, 51 BANK STREET, HOPE VALLEY LINCOLN, 680 GEORGE WASHINGTON HIGHWAY, LINCOLN GLOCESTER, 6487 PUTNAM PIKE, GLOCESTER RT. 6, WARREN AVENUE, EAST PROVIDENCE PORTSMOUTH, ANTHONY ROAD, PORTSMOUTH</p> <p>CONTACT PERSON: ANGELA CAMPERONE (401) 222-6765 EXT. 4837</p> <p>DELIVERY OF GOODS OR SERVICES AS REQUESTED BY AGENCY.</p>				
				TOTAL:	

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Material Specifications

The following Material Specifications are reprinted from the *Rhode Island Department of Transportation Standard Specifications for Road and Bridge Construction*. This document may be viewed at www.dot.state.ri.us.

M.10.03.2 Graded Riprap Stone. Stone for Riprap shall meet the quality requirements of this Subsection M.10.03 and shall conform to one of the following designations. In addition, such stone shall be well graded within the size specified.

GRADED RIPRAP STONE ⁽³⁾

National Stone Association Modified NSA No.	Size Inches (square openings)		
	Maximum	Average ⁽¹⁾	Minimum ⁽²⁾
R-3	8	4	2
R-4	14	7	4
R-5	20	10	6

- Notes:
- 1) "Average size" is that size exceeded by at least 50 percent of the total weight of the tonnage shipped; i.e., 50 percent of the tonnage shall consist of pieces larger than the "average" size (normally half the specified nominal top size).
 - 2) Pieces smaller than the minimum size shown shall not exceed 15 percent of the tonnage shipped.
 - 3) REFERENCE: National Stone Association manual; "Quarried Stone for Erosion and Sediment Control," dated 1978.

M.18.01 Loam. The material to be furnished shall consist of screened loose, friable, fine sandy loam or sandy loam free of subsoil, refuse, stumps, roots, rocks, cobbles, stones, brush, noxious weeds, litter and other materials which are larger than 1-inch in any dimension and which will prevent the formation of a suitable seed bed. Organic matter shall constitute not less than 5-percent nor more than 20-percent of the loam as determined by loss-on-ignition of oven dried samples that have been drawn by the Engineer, unless otherwise specified or directed. The loam shall have an acidity range of 5.5 pH to 7.6 pH.

M.02.02.1 Fine Aggregate for Mortar. Fine aggregate for mortar shall conform to the requirements of AASHTO M45.

M.01.09 GRADATION OF AGGREGATES. Aggregates for use in base and sub-base courses and other applications shall conform to the gradation requirements indicated in the following Table.

Gradation - % Passing

Sieve	Gravel Borrow Reclaimed Processed Material	Crushed Stone or Crushed Gravel	Filter Stone
3"	100		
2 1/4"		100	
2"		90-100	
1 1/2"	70-100	30-55	
1 1/4"		0-25	
1"		0-5	100
3/4"	50-85		70-85
1/2"			10-40
3/8"			0-20
#4	30-55		0-5
#40			
#50	8-25		
#200	2-10		

Standard Specification for

Aggregate for Masonry Mortar

AASHTO Designation: M 45-99 (2003)¹

ASTM Designation: C 144-97



1. SCOPE

- 1.1. This specification covers aggregate for use in masonry mortar.
- 1.2. The values stated in SI units are to be regarded as the standard.

2. REFERENCED DOCUMENTS

- 2.1. *AASHTO Standards:*
 - M 6, Fine Aggregate for Portland Cement Concrete
 - T 2, Sampling of Aggregates
 - T 11, Materials Finer than 75- μ m (No. 200) Sieve in Mineral Aggregates by Washing
 - T 21, Organic Impurities in Fine Aggregates for Concrete
 - T 27, Sieve Analysis of Fine and Coarse Aggregates
 - T 71, Effect of Organic Impurities in Fine Aggregate on Strength of Mortar
 - T 84, Specific Gravity and Absorption of Fine Aggregate
 - T 104, Soundness of Aggregate by Use of Sodium Sulfate or Magnesium Sulfate
 - T 112, Clay Lumps and Friable Particles in Aggregate
 - T 113, Lightweight Pieces in Aggregate
- 2.2. *ASTM Standards:*
 - C 270, Specification for Mortar for Unit Masonry

3. MATERIAL

- 3.1. Aggregate for use in masonry mortar shall consist of natural sand or manufactured sand. Manufactured sand is the product obtained by crushing stone, gravel, or air-cooled iron blast-furnace slag specially processed to assure suitable particle shape as well as gradation.

4. GRADING

- 4.1. Aggregate for use in masonry mortar shall be graded within the following limits, depending upon whether natural sand or manufactured sand is to be used. (See Table 1.)

Table 1—Aggregate Grading Limits

Sieve Size	Percent Passing	
	Natural Sand	Manufactured Sand
4.75 mm (No. 4)	100	100
2.36 mm (No. 8)	95 to 100	95 to 100
1.18 mm (No. 16)	70 to 100	70 to 100
600 µm (No. 30)	40 to 75	40 to 75
300 µm (No. 50)	10 to 35	20 to 40
150 µm (No. 100)	2 to 15	10 to 25
75 µm (No. 200)	0 to 5	0 to 10

4.2. The aggregate shall not have more than 50 percent retained between any two consecutive sieves of those listed in Section 4.1 nor more than 25 percent between 300-µm (No. 50) and the 150-µm (No. 100) sieve.

4.3. If the fineness modulus varies by more than 0.20 from the value assumed in selecting proportions for the mortar, the aggregate shall be rejected unless suitable adjustments are made in proportions to compensate for the change in grading.

Note 1—For heavy construction employing joints thicker than 12.5 mm (1/2 in.), a coarser aggregate may be desirable. For such work a fine aggregate conforming to M 6 is satisfactory.

4.4. When an aggregate fails the gradation limits specified in Sections 4.1 and 4.2, it may be used provided the mortar can be prepared to comply with the aggregate ratio, water retention, and compressive strength requirements of the property specifications of ASTM C 270.

5. COMPOSITION

5.1. *Deleterious Substances*—The amount of deleterious substances in aggregate for masonry mortar, each determined on independent samples complying with the grading requirements of Section 4 shall not exceed the following:

Item	Max. Permissible Mass, percent
Clay lumps and friable particles	1.0
Lightweight particles, floating on liquid having a specific gravity of 2.0	0.5*

* This requirement does not apply to blast-furnace slag aggregate.

5.2. *Organic Impurities*:

5.2.1. The aggregate shall be free of injurious amounts of organic impurities. Except as herein provided, aggregates subjected to the test for organic impurities and producing a color darker than the standard shall be rejected.

5.2.2. Aggregate failing in the test may be used provided that the discoloration is due principally to the presence of small quantities of coal, lignite, or similar discrete particles.

- 5.2.3. Aggregate failing in the test may be used provided that, when tested for the effect of organic impurities on strength of mortar by T 71, the relative strength at seven days is not less than 95 percent.

6. SOUNDNESS

- 6.1. Except as herein provided, aggregate subjected to five cycles of the soundness test shall show a loss, weighed in accordance with the grading of a sample complying with the limitations set forth in Section 4, not greater than 10 percent when sodium sulfate is used or 15 percent when magnesium sulfate is used.
- 6.2. Aggregate failing to meet the requirements of Section 6.1 may be accepted, provided that mortar of comparable properties made from similar aggregates from the same source has been exposed to weathering, similar to that to be encountered, for a period of more than five years without appreciable disintegration.

7. METHODS OF SAMPLING AND TESTING

- 7.1. Sample and test the aggregate in accordance with the following procedures:
- 7.1.1. *Sampling*—T 2,
- 7.1.2. *Sieve Analysis and Fineness Modulus*—T 27,
- 7.1.3. *Amount of Material Finer than 75 μm (No. 200) Sieve*—T 11,
- 7.1.4. *Organic Impurities*—T 21,
- 7.1.5. *Effect of Organic Impurities on Strength*—T 71,
- 7.1.6. *Clay Lumps and Friable Particles*—T 112,
- 7.1.7. *Lightweight Constituents*—T 113, and
- 7.1.8. *Soundness*—T 104,
- 7.1.9. *Density*—Determine the Bulk Specific Gravity (Saturated Surface Dry Basis) of the fine aggregate in accordance with T 84. The specific gravity equals the density expressed in units of g/cm^3 . The density of the fine aggregate in g/cm^3 is used in the calculation of the air content of the mortars, as required by ASTM C 270.

¹ Similar but not identical to ASTM C 144-97.