

ITEM 010370

Item 0103701 - LARGE PROCESSED TRAPROCK BASE

Item 0103702 - MEDIUM PROCESSED TRAPROCK BASE

Item 0103703 - SMALL PROCESSED TRAPROCK BASE

DESCRIPTION

This item shall include furnishing material for, placing, and constructing a traprock foundation in courses not to exceed 6 inches in thickness on a prepared base or sub-base in accordance with these specifications and in conformity with the lines, grades and compacted thickness as shown on the plans, details, or as ordered by the engineer.

REFERENCED ITEMS

None

REQUIRED SUBMITTALS

Material Certificate of Compliance:

Certified Test Report:

Submit 5 copies of certified test reports for process traprock in accordance with the contract general requirements.

MATERIALS

Course and fine aggregates shall be combined and mixed by approved methods so that the resulting material shall conform to the following gradation requirements:

Large 2" Process Traprock:

Square Mesh Sieves	% Passing by Weight
Pass 2 1/2"	100
Pass 1 1/2"	90-100
Pass 3/4"	60-80
Pass 1/4"	40-55
Pass #40	5-20
Pass #100	2-12
Pass #200	0-5

Medium 1 1/4" Process Traprock:

Square Mesh Sieves	% Passing by Weight
Pass 2"	100
Pass 1 1/2"	90-100
Pass 3/4"	50-75
Pass 1/4"	25-45
Pass #40	5-20
Pass #100	2-12
Pass #200	0-5

Small 3/4" Process Traprock:

Square Mesh Sieves	% Passing by Weight
Pass 1"	100
Pass 3/4"	90-100
Pass 3/8"	50-90
Pass #4	35-70
Pass #10	15-55
Pass #100	2-12
Pass #200	0-5

Course aggregate shall consist of sound, tough, durable fragments of rock of uniform quality throughout. It shall be free from soft disintegrated pieces, mud, dirt, organic or other injurious material. When tested by means of the Los Angeles abrasion machine using AASHTO method T-96-02, it shall not have a loss of more than 50 percent. When the fraction of the dry sample passing the No. 100 sieve is greater than 8% by weight, the sample shall be washed and the amount obtained by washing shall be added to the amount obtained by dry sieving. The resultant total amount of material passing the No. 100 sieve shall meet the above range.

Fine aggregate shall be natural sand, stone sand, screenings or any combination thereof. The fine aggregate shall be limited to material 95 percent of which passes a No. 4 sieve. The material shall be free from clay, loam and deleterious materials. Fine aggregate shall meet the material requirements of article M.05.01 of the State of Connecticut, Department of Transportation, Standard Specification for Roads, Bridges and Incidental Construction, Form 816, 2004.

CONSTRUCTION METHODS

The processed traprock shall be uniformly spread upon the prepared sub-grade directly from an approved stone spreader or box to such depths that each course will have a depth of 6" after compaction unless otherwise ordered. Dumping material on sub-grade from trucks and spreading with power graders and bulldozers will not be permitted except with the permission of the Engineer and except in areas inaccessible to the approved stone spreader.

The processed traprock shall be compacted by use of a power roller weighing at least 10 tons. Water shall be applied during rolling to obtain proper compaction. Rolling and wetting shall be continued until the voids in the material have been reduced to a minimum and until the course is thoroughly compacted to firm and uniform surface satisfactory to the Engineer. The compaction of each layer shall be at least 97 percent of the maximum dry density as obtained by the AASHTO Test T-180-01, Method D.

Should the base course material become churned up or mixed with the sub-grade material at any time, the Contractor shall, without additional compensation, remove the mixture, reshape and re-compact the sub-base, and replace the material removed with clean coarse material which shall be compacted and wetted until thoroughly compacted to firm uniform surface. Sand or stone dust shall be added to the surface during rolling to fill voids that may occur in the coarse aggregate.

When compaction of the bottom course has been completed, the aggregate for the top course shall be spread over it to such depth that, after final compaction, the total depths will equal the depth specified for the completed base.

Should any irregularities of surface develop during or after the compacting of either course, they shall be remedied by loosening the material already in place and removing or adding course aggregate as required after which the entire area, including the surrounding surface, shall be compacted, and the compacting continued until it is compacted satisfactorily to a uniform surface.

METHOD OF MEASUREMENT

All processed traprock base required for this work shall be weighed on scales or by automatic recording equipment furnished by and at the expense of the Contractor. The scales or automatic recording equipment shall be of a type satisfactory to the Engineer. The total weight will be the summation of the weight slips of processed traprock actually incorporated in the work included in this item.

BASIS OF PAYMENT

This work will be paid for at the contract unit price per ton for “(TYPE) PROCESSED TRAPROCK BASE”, complete in place, which price shall include all materials, tools, equipment, labor and work incidental thereto.

<u>PAY ITEM</u>	<u>DESCRIPTION</u>	<u>PAY UNIT</u>
0103701	Large Processed Traprock Base	TON
0103702	Medium Processed Traprock Base	TON
0103703	Small Processed Traprock Base	TON