

CITY OF KEENE
CHESHIRE RAIL TRAIL

SPECIAL PROVISION

AMENDMENT TO SECTION 304 – AGGREGATE BASE COURSE

Item 304.754 – 4” Stone Dust Wearing Surface for Trails

Add to Materials:

2.12 Stone Dust Wearing Surface for Trails

2.12.1 Stone dust shall be a clean, granular, well-graded and free from clay, sand or organic material.

2.12.2 Aggregate shall consist of hard, durable particles or fragments of crushed stone or gravel conforming to the following requirements and gradations (Crushed Aggregate Surface Course Material (3/8” minus)):

Los Angles abrasions, ASTM C 131 and C 535.....50% max.*
Fractured faces (one face)95% min.*
Fractured faces (two faces)75% min.*
Soundness loss, 5 cycles, ASTM C 88 (magnesium).....18% max.*
Flat/Elongated (length to width > 5 ASTM D4791.....15% max.*

*Based on portion retained on the 3/8” sieve

2.12.3 Material shall be free from organic material and lumps or balls of clay.

2.12.4 Material passing the No. 4 sieve shall consist of natural or crushed sand and fine mineral particles. The material including any blended filler, shall have a plasticity index of not more than 6 and a liquid limit of not more than 25 when tested in accordance with ASTM D4318.

2.12.5 Aggregate shall contain a minimum of 5% clay particles by no more than 50% of that portion of material passing the No. 200 sieve size shall be clay. Inorganic clay to be used as binder shall conform to the following:

Passing No. 200.....75%
Liquid Limit.....30 min.
Plastic Index.....8 min.

2.12.6 The fraction of material passing the No. 200 sieve size shall be determined by washing as indicated in ASTM D1140, “Amount of Material in Soils Finer Than the No. 200 Sieve.” The fractured faces for the course aggregate portion (retained on the No. 4

Sieve) shall have an area of each face equal to at least 75% of the smallest midsectional area of the piece. When two fractured faces are contiguous, the angle between the planes of fractures shall be at least 30 degrees to count as two fractured faces. Fractured faces shall be obtained by mechanical crushing.

- 2.12.7** Gradation shall be obtained by crushing, screening, and blending processes as may be necessary. Material shall meet following screen analysis requirements by weight.

Sieve Designation	Percent Passing
3/8"	90-100%
No. 4	60-81%
No. 8	44-60%
No. 40	20-33%
No. 200	10-16%

Add to 3.5 – Testing for Gradation:

3.5.6 Stone Dust for Wearing Surface for Trails

- 3.5.6.1** Within 10 days of award, Contractor shall submit test results from a certified testing laboratory and a Certificate of Compliance.
- 3.5.6.2** Material tested will be predetermined stock pile of material.
- 3.5.6.3** In addition to initial testing, Contractor shall perform additional gradation tests and furnish results as materials are processed and/or delivered. Frequency of additional testing shall be 1 test per 500 cubic yards. If source of materials should change after completion of original test, a complete set of tests, as required above, shall be performed again.
- 3.5.6.4** The Engineer reserves the right to conduct quality control inspection and testing to determine the reliability of the test results and Certificate of Compliance. Materials delivered that do not comply with the specifications and/or certificated shall be removed from the site at no cost to the City.

Add to Pay items and units:

Item 304.754 4" Stone Dust Wearing Surface for Trails	Cubic Yard
---	------------