

**ROGERS WATER UTILITIES
ROGERS, ARKANSAS**

**SPECIFICATIONS FOR GRANULAR
BACKFILL MATERIAL
REVISED JUNE 2006**

1. **SCOPE**

This specification covers crushed limestone material used to backfill trenches for water, sanitary sewer and force mains, sanitary sewer services and water services that pass through and/or within existing/proposed public roads/streets and existing private driveways. Granular backfill material shall be placed from the top of pipe bedding to the specified grade. Granular backfill materials may be either AHTD Class 7 crushed limestone or Aggregate Size Number 67 (ASTM D448) crushed limestone.

2. **GENERAL REQUIREMENTS FOR AHTD CLASS 7 BACKFILL MATERIAL**

- a. The granular backfill material shall be restricted to mechanically crushed limestone rock so proportioned as to conform to the requirements of AHTD Test Method 304.
- b. The granular backfill material shall be required to meet the sieve test of AASHTO T 11 & T 27.

Class 7 Gradation

<u>Sieve Size</u>	<u>Percent by Wt. Passing</u>
1½"	100
1"	60-100
¾"	50-90
No. 4	25-55
No. 40	10-30
No. 200	3-10

- c. The granular backfill material shall be placed in lifts or layers not to exceed 6 inches loose measure and properly compacted, tested, and approved before placing subsequent lifts.
- d. The granular backfill material shall be compacted to a minimum of 95% of the maximum dry density determined by the modified proctor (ASTM D1557-02).

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3. **GENERAL REQUIREMENTS FOR AGGREGATE SIZE NO. 67 (ASTM D448) BACKFILL MATERIAL**

- a. The granular backfill material shall be restricted to mechanically crushed limestone rock so proportioned as to conform to the requirements of ASTM D448 for a Standard Aggregate Size Number 67 (approximate ¾” to No. 8).
- b. The granular backfill material shall be required to meet the sieve sizes of ASTM E11 to conformity to ASTM D448 for a Standard Aggregate Size Number 67 (approximate ¾” to No. 8).

ASTM D448 Size Number 67 Gradation

<u>Sieve Size</u>	<u>Percent by Wt. Passing</u>
1”	100
¾”	90-100
3/8”	20-55
No. 4	0-10
No. 8	0-5

- c. The granular backfill material has no compaction requirements.
- d. The upper 6 inches of the trench backfill shall be capped with AHTD Class 7 crushed limestone material placed and compacted in accordance with Item 2c and 2d of this specification.

4. **QUALITY ASSURANCE OF MATERIALS**

The results of the sieve test of the material shall be obtained by the Contractor for the source of supply and said test results shall be furnished to RWU. The results of the testing shall be used to approve or disapprove the source of supply by RWU and no further testing will be required for that specific project for which the test was made.