ALDOT-110-82
PULVERIZATION OF SOIL AFTER LIME STABILIZATION

1. Scope

1.1. This procedure covers sampling of lime stabilized soil for sieve analysis.

2. Class I (first increment) Lime Stabilization

2.1. When Class I (first increment) lime stabilization is used, a visual inspection shall be made after the lime is spread and mixed. After completion of the mixing and water application, all material, including stone and gravel, shall pass visual inspection of a 3" inch (75 um) sieve. Record in the field book that visual inspection has been made and is accepted each 1000 ft. (300 m.).

3. Class I (second increment), Class II, or Class III Lime Stabilization

3.1. When Class I (second increment), Class II, or Class III lime stabilization is used, a representative sample is taken every 1000 ft. (300 m.) For Class I or Class II lime stabilization, samples are taken after the mellowing period, a minimum of three (3) days and not exceeding twenty one (21) days, during the final mixing operation. For Class III lime stabilization, a sample is taken during the final mixing operation (the material should be damp but not soaked with water).

3.2. Dig a hole approximately 2 ft (60.0 cm) wide to the full depth of stabilized material, with a vertical face on one side. Using a shovel point or edge, sample the material from the bottom of the hole to the top (approximately 10 lbs. (5 kg)). Discard any gravel or stone from the sample. Manually screen the material using nested 2 in. (50 mm) and No. 4 (4.75 mm) sieves. **--DO NOT FORCE LARGE PARTICLES THROUGH SIEVES**. Record weights and calculate the percent passing for each sieve using the following equation:

$$\% \text{ Passing} = \frac{\text{Weight Total Sample - Weight Retained x 100}}{\text{Weight Total Sample}}$$

APPROVED
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