

Kentucky Method 64-521-082
Revised ~~11/18/02~~04/01/08
Supersedes KM 64-521-9502
Dated ~~5/17/95~~11/18/02

UNCONSOLIDATED, UNDRAINED COMPRESSIVE STRENGTH OF COHESIVE SOILS IN TRIAXIAL COMPRESSION

Refer to *Standard Method Of Test For Unconsolidated, Undrained Compressive Strength Of Cohesive Soils In Triaxial Compression* - AASHTO T 296-~~93~~05 with the following additions and modifications:

Pocket penetrometer and/or Torvane tests shall be performed on each sample prior to testing and the results shall be recorded on the data sheets. For Torvane tests, the size of the vane used shall be indicated. These tests shall be performed on a portion of the sample that will be removed during the sample trimming process.

~~1.2: Omit "and effective" and "pore water pressure."~~

~~1.3: Omit "Generally, three specimens are tested at different effective confining pressures to define a strength envelope."~~

~~3.2.1 & 3.2.1.1: Omit.~~

3.2.31: Failure shall be taken to correspond to the maximum principal stress difference (maximum deviator stress) attained or the principal stress difference (maximum deviator stress) at 15 percent axial strain.

~~3.2.5: Omit.~~

~~4.2: Omit.~~

~~4.3: Omit "or effective stresses."~~

~~5.8: Omit.~~

~~5.10.2 to 5.10.2.2: Omit.~~

~~5.12: Omit.~~

~~5.17: Omit.~~

7.1.3 to 7.2.2.3: Omit.

~~7.4: Omit, except for "check the alignment of the specimen and the specimen cap."~~

8.1.5: Values of load and deformation may be recorded at intervals of 30 seconds.

~~8.2 to 8.2.6: Omit~~

10.1: Calculation of the volume of solids, initial void ratio, and initial degree of saturation may be omitted.

10.4.3 & 10.4.4: Omit.

10.4.4.1: Calculation of the initial degree of saturation may be omitted.

~~10.5 to 10.5.4.2: Omit.~~

~~10.6: When a limited number of samples are available or if only one sample is tested, a plot of the total stress Mohr circle is not required. The maximum deviator stress shall be entered on the test data sheet as the undrained compressive strength, U_u . Omit reference to effective stress Mohr circle.~~

11.1.2 to 11.1.4: May be omitted if presented on other data sheets or in other reports.

11.1.5: Void ratio and percent saturation may be omitted.

~~11.1.7 to 11.1.9: Omit.~~

11.1.11: Replace "and the values of the effective minor and major principal stresses at failure" with "shall be reported as the undrained compressive strength, U_u ."

~~11.1.14: Omit "and induced pore water pressure."~~

~~11.1.15: Omit.~~

~~11.1.16: When a limited number of samples are available or if only one sample is tested, a plot of the Mohr stress circle is not required. Omit "and effective stresses."~~

APPROVED

DIRECTOR
DIVISION OF MATERIALS

DATE

04/01/08

~~APPROVED—~~

~~Director
Division of Materials~~

~~DATE 11/18/02~~

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