

ALDOT-232-74A
MODIFICATION OF AASHTO T-89

1. Scope

- 1.1. The purpose of this test is to modify the AASHTO T89 test procedure to conform to particular characteristics inherent in base and subbase type soils and fine aggregate proposed for use in bituminous plant mixes which have a plasticity index of 10 or less. Therefore, in order to accommodate the testing of these low plasticity index materials, the following verbiage shall replace Note 6 in its entirety, which immediately follows Section 6.3 in the Method A Procedure portion of T89:

Some soils tend to slide on the surface of the cup instead of flowing. If this occurs, more water should be added to the sample and remixed, then place the soil water mixture in the cup. Then cut a groove with a grooving tool and repeat Section 6.2, Method A, T-89 is repeated. If, after several trials at successively higher water contents, the soil continues to slide in the cup or if the number of blows required to close the groove is always less than 25, (i.e., repeated attempts made to obtain the range of shocks as outlined in 6.6 have not been successful) the following procedure will be utilized. The first point determined shall be the dry side point and shall not be less than ten (10) blows. The wet point shall not be less than two (2) blows. If possible, there shall be three (3) points in which the number of blows is determined to extrapolate for the Liquid Limit. There shall be a minimum space of at least three (3) blows between points where three (3) points are determined and a minimum of six (6) blows when only two (2) points are determined. The moisture in the dry side point may be adjusted at the beginning of the test by adding dry material or water as needed to prevent sliding in the cup at ten (10) or more blows. If the sample continues to slide at ten (10) or more blows after the moisture adjustment, report the soil as non-plastic without performing the plastic limit test.