## LIQUID LIMIT DEVICE VERIFICATION PROCEDURE \#8

Revised 6/14/2002

## Equipment Checked: LIQUID LIMIT DEVICE (AASHTO T 89)

## Purpose:

This method provides instructions for checking the dimensions of the cup and base of the liquid limit device and the physical condition.

Inspection Equipment Required:

1. Calipers readable to .01 mm
2. Ruler readable to 1 mm

Tolerance:

| Cup Assembly |  | Tolerance |
| :--- | ---: | ---: |
| Radius of cup $=$ | 54 mm | 2 mm |
| Thickness of cup $=$ | 2 mm | 0.1 mm |
| Depth of cup = | 27 mm | 1 mm |
| Cup @ cam follower to base $=$ | 47 mm | 1.5 mm |
| Wear on cup at point of contact on base = | 13 mm |  |
|  |  |  |
| Base |  |  |
| Thickness = |  |  |
| Length $=$ | 50 mm | 5 mm |
| Width = | 150 mm | 5 mm |
| Wear on base at point of contact from cup $=$ | 5 mm |  |

## Procedure:

1. Measure the radius, thickness, depth, distance of cup at cam follower to base.
2. Check the wear of the cup at the contact point on base.
3. Measure thickness, length, and width of the base.
4. Check the wear of the base at the contact point of cup.
5. If motorized, check drop rate.

## EQUIPMENT CALIBRATION RECORD

Calibration Procedure No. 8 Liquid Limit Device (AASHTO T 89)

| Date: | Calibrated by: |
| :--- | :--- |
| Previous Calibration Date: | Next Due: |
| Frequency: 12 months |  |
| Repair__ Replace__ None__ Other |  |
| Calibration Equipment |  |
| Calipers, readable to 1 mm |  |
| Metric ruler readable to 1 mm |  |

L.L.Base
a $50 \mathrm{~mm} \pm 5 \mathrm{~mm}$
b $150 \mathrm{~mm} \pm$

a-base thickness
b-base length
c-base width 4/25/2002

