

SECTION 301 SUBGRADE PREPARATION (LCDOT) For use on LCDOT let projects with undercut (no soils report) only - do not include in IDOT let projects. Fill in the estimated contingency quantities below. Delete this note from the Contract Specifications.

Effective: January 1, 2007

Revised: May 21, 2014

Description: This work shall consist of removing, transporting and disposing of unsuitable material; and backfilling the excavated area with a porous granular embankment material when preparing the subgrade beneath the 12" Aggregate Subgrade shown on the plans.

General: The work shall meet the requirements of Section 301 of the "Standard Specifications" and the following:

Soft unstable soils of varying depths may exist at locations within the widening or reconstruction sections. These soils may need to be removed and replaced with porous granular embankment, special, prior to placing the bituminous base course or aggregate material.

The actual extent of removal and replacement shall be determined by the Engineer in the field at the time of construction. Undercuts deeper than 12" below the 12" subgrade layer shown on the typical sections (excavation resulting in more than a total of 20" porous granular embankment and 4" aggregate base course beneath the hot-mix asphalt materials) should be justified based upon cone penetrometer testing.

In all cases, the undercut shall extend 12" outside the bottom edges of the proposed 12" subgrade layer, and come up at 1:1 slopes to the existing ground surface as shown on LCDOT Standard LC2000.

The removal and disposal of the unsuitable materials will be paid for as EARTH EXCAVATION according to the special provision included herein. A contingency quantity of _____ cubic yards has been added to the quantities as shown on the plans.

The replacement material will be paid for as POROUS GRANULAR EMBANKMENT, SPECIAL according to the special provision included herein. A contingency quantity of _____ cubic yards of has been added to the quantities as shown on the plans.

In all other cut sections, once final elevations are obtained, a proof rolling procedure acceptable to the Engineer shall be followed in order to verify the stability of the subgrade prior to placement the 12" subgrade layer. Verification of subgrade stability shall be done through the use of a cone penetrometer in conjunction with the Illinois Department of Transportation's Subgrade Stability Manual.