

**DIVISION 31 – EARTHWORK****DESIGN CRITERIA**

Site specific geotechnical and soil reports shall be referenced when determining excavation, compaction and backfilling requirements.

**EXCAVATION AND FILL****31 23 00****COMPACTION**

Vehicle Pavements: Compact top 12 inches of subgrade and each layer of backfill or fill material at 95 percent maximum density for cohesive materials or 95 percent relative density for cohesionless material.

Pedestrian Walkways: Compact top 6 inches of subgrade and each layer of backfill or fill material at 95 percent of maximum density for cohesive material or 95 percent relative density for cohesionless material.

Landscape Areas: For soil cleanup and preparation, refer to the University's Standard Specification Section 32 90 00 Planting. Soil preparation shall yield an uncompacted soil profile that is at least twenty-four inches deep. Lightly compact fill to prevent settling. Compaction shall not exceed 200 psi to a depth of twenty-four inches when measured with a compaction tester.

**TRENCHING AND BACKFILLING****31 23 33**

Maximum allowable open trench is 600 linear feet at any one time. All trenches are to be covered at end of workday. All trench plates must have non-skid epoxy coating.

For trenches that cross existing asbestos-cement (AC) pipes, a portion of AC pipe must be cut out and replaced with plastic pipe. Replacing the AC pipe reduces the likelihood of pipe failure due to trench settlement. Refer to UCD standard drawing C-12, Asbestos Cement Pipe Undercrossing, for details and materials.

**WARRANTY**

Work shall be warranted against settlement for a period of 2 years after the date of final acceptance. Settlement shall be defined on paved surfaces as when the depression is 3/8-inch below the average of the sides of the uncut portion.