

Road Design

Measurement of Earthwork Volumes – EST 03

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1. General

1.1 Introduction

- 1.1.1 An Estimate Drawing is required to assist estimators in accurately determining earthwork volumes.
- 1.1.2 The Estimate Drawing shall be in .DWG or .DXF format, be presented using the standard DIT Sketch Title block and include the following entities:
 - a) Contours depicting the existing surface.
 - b) Contours depicting the proposed surface.
 - c) Boundaries around the extent of each individual pavement type.

1.2 Contours

- 1.2.1 Shall be created a suitable interval that will accurately depict the relevant surface without causing the drawing to become too cluttered.
- 1.2.2 Shall extend across the entire surface being modelled (for example, the existing surface should not be 'trimmed out' within the extents of the design).
- 1.2.3 Shall be continuous unbroken polylines.
- 1.2.4 Shall have an elevation equivalent to their level.
- 1.2.5 Shall not include labels indicating their level.
- 1.2.6 Shall conform to RD1 in terms of layers and colour.

1.3 Pavement Boundaries

- 1.3.1 Shall be closed polylines that represent the extent of each individual pavement type.
- 1.3.2 Each pavement type is to be defined with a separate boundary. There may be multiple pavement boundaries for one pavement type if they are physically separated.
- 1.3.3 Shall conform to RD1 in term of layer and colour.