

CONSTRUCTION DETAILS
INSTRUCTIONS FOR USE

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LICENCE FOR USE AND INTRODUCTION

Use of this requires acceptance of the terms and conditions detailed in the accompanying Graphics Files Licence Agreement.

These instructions are intended for users accessing the software provided with the book *Manual for Detailing Reinforced Concrete Structures to EC-2*, to edit the digitised version of the drawings reproduced in Chapter 2.

Each construction detail is given in a separate AutoCAD 2005 graphics file. While this version of the program is very likely the most popular tool for computer aided design (CAD), other subsequent and more advanced versions may also be used, heeding the developer's remarks with respect to earlier applications.

Each file is stored in the respective group folder, numbered from 01 to 15. Files are named as DCXXYY.DWG, where XX is the group number and YY the detail number (see book contents). Details comprising more than one drawing are labelled accordingly [(1 of 2), (2 of 2)].

Construction detail CD-02.02 (Cantilever retaining walls. Footing), for instance is in the Group 02 folder as file CD0202.DWG. If this detail had comprised two drawings, the file names would be CD0202 1of2.DWG and CD0202 2of2.DWG.

When a file is opened for editing with AutoCAD, the entire construction detail is displayed on the screen and can be changed at the user's discretion. Details may consequently be included in construction or design drawings by merely altering the scale, lettering or colours, with no need to engage in unproductive and unnecessary repetition.

HARDWARE AND SOFTWARE REQUIREMENTS

The hardware requirements for this package are the same as defined for working with AutoCAD.

The computer must be fitted with a CD-ROM drive.

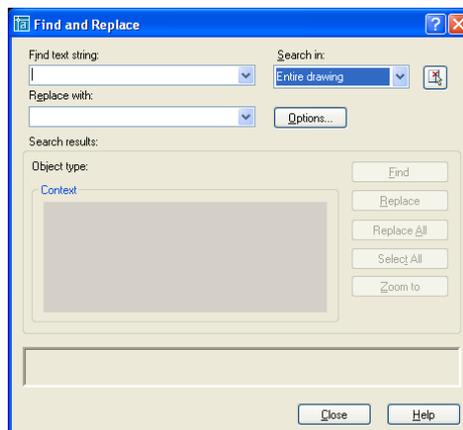
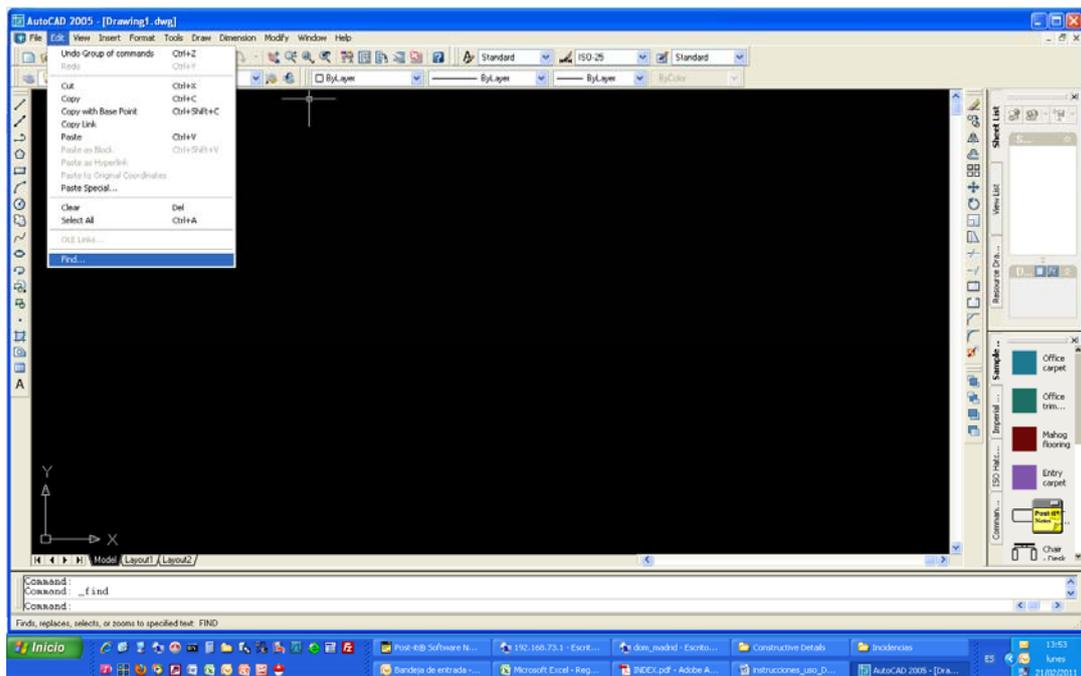
While the drawings provided in this CD were generated with AutoCAD 2005 to ensure the broadest possible usability, they are compatible with subsequent versions of the program.

When a file is opened for editing with AutoCAD, the entire construction detail is displayed on the screen, ready to be printed or plotted.

OPERATING PROCEDURE

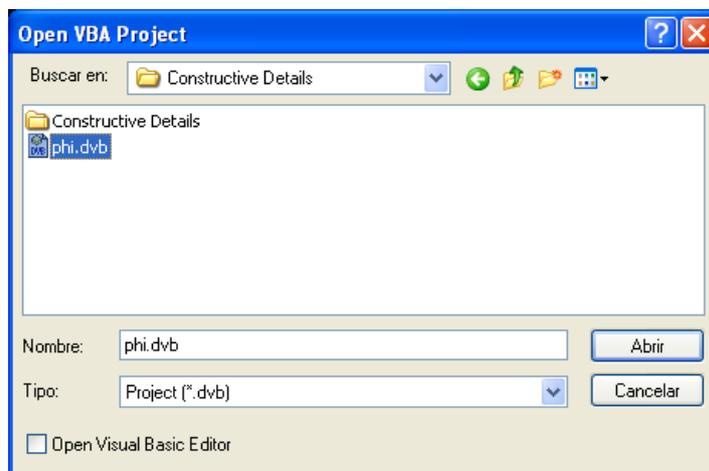
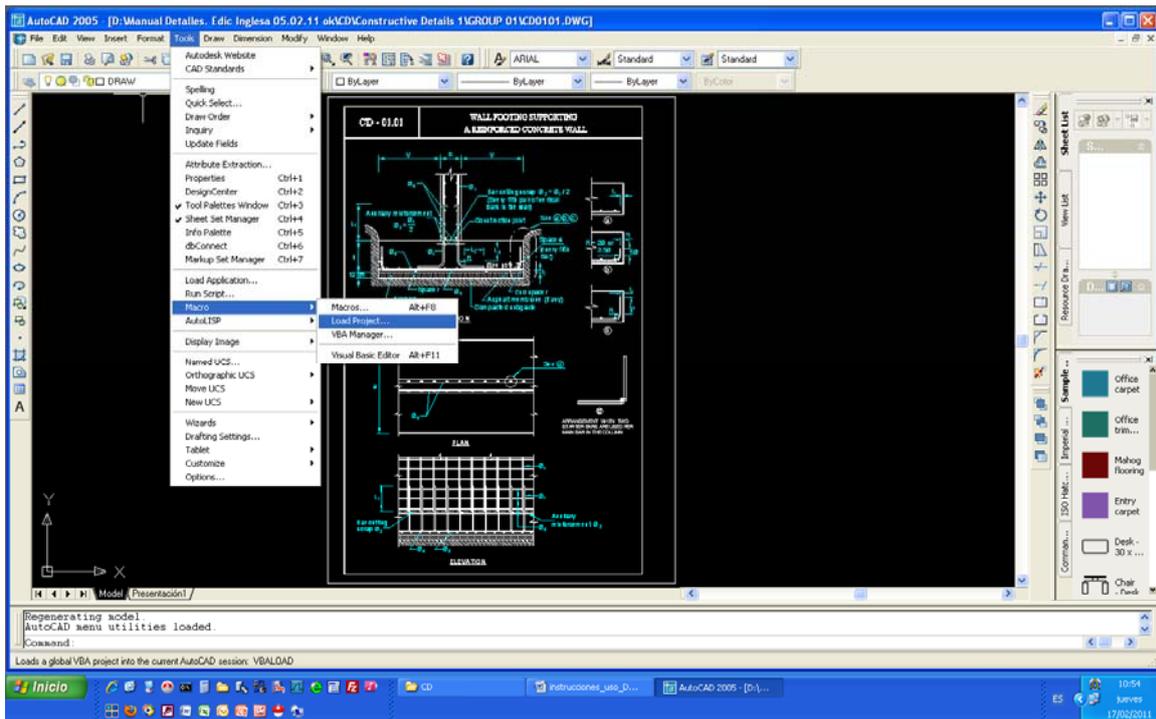
A file named INDEX.PDF is listed alongside the folder containing the construction details. Click this file to access a list of all the construction details, and then the name of the detail to retrieve it for editing. Alternatively, AutoCAD can be launched first and the file to be edited can be retrieved from the respective group folder, as described in the Introduction.

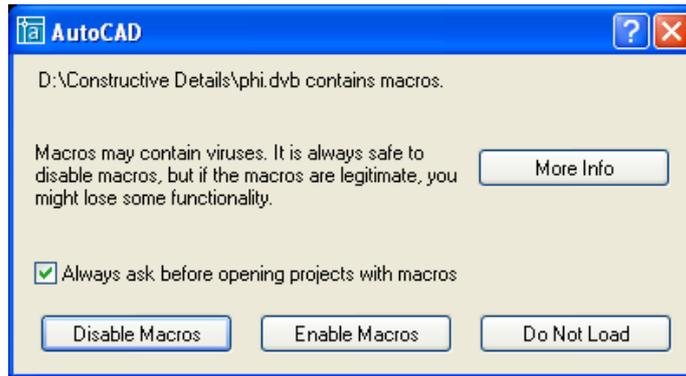
The diameters and other items on the construction drawings appearing in this book can be adapted for inclusion in design drawings by opening the “Find and replace” dialogue box (under “Find” in the “Edit” menu) in any of the current versions of AutoCAD.



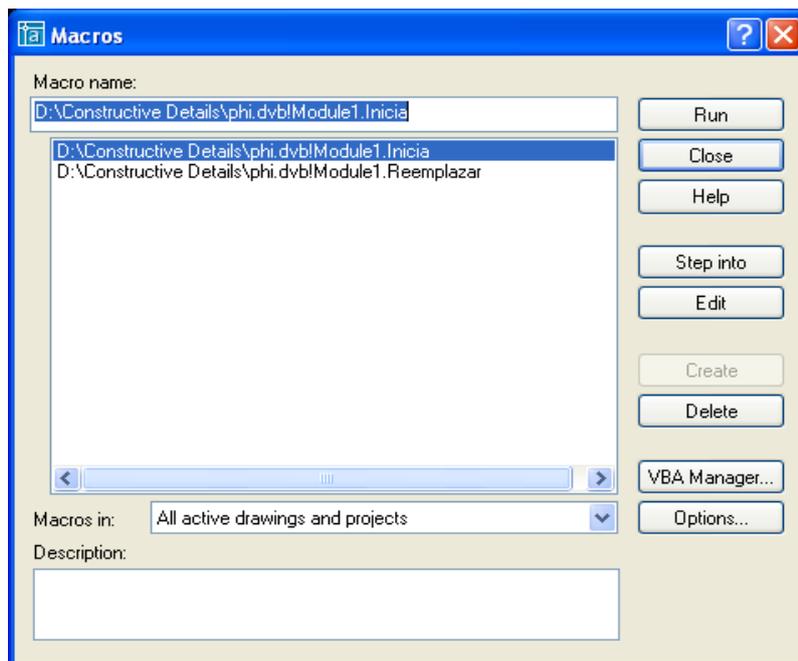
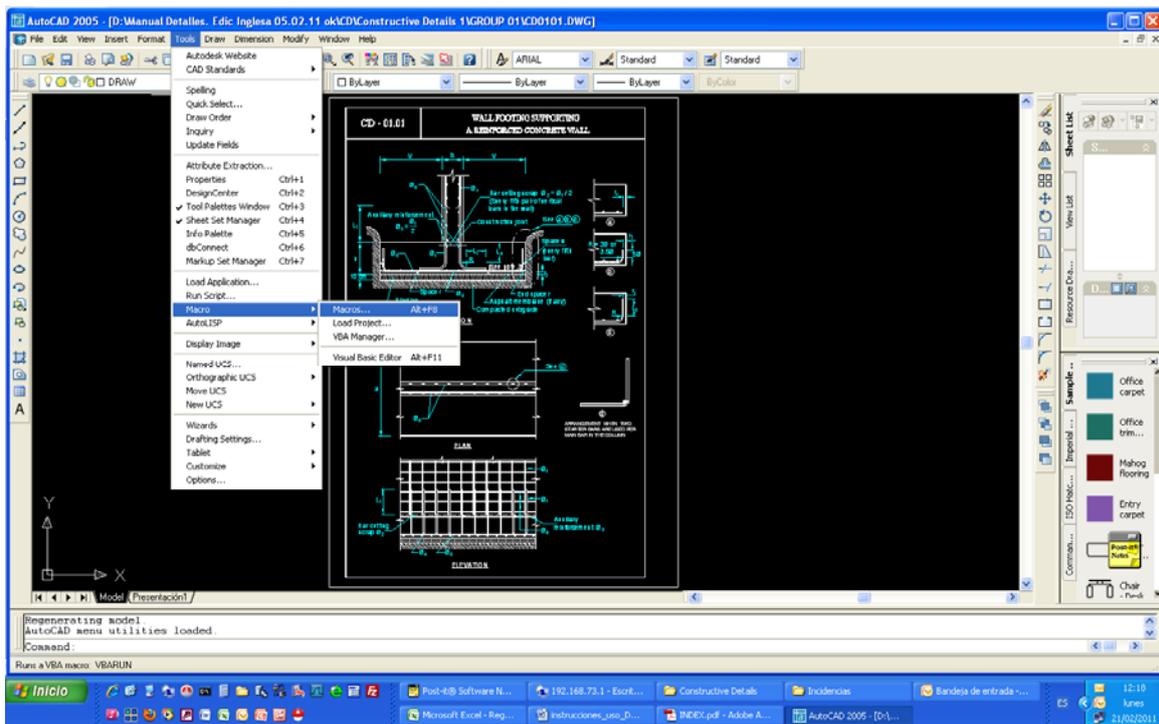
Diameters containing a subscript in multiline text can be changed as specified below.

- 1.- Open the construction detail containing the text to be replaced.
- 2.- Upload the macro by clicking file phi.dvb, found in “Tools” -> “Macro” -> “Load Project...”. Click “Enable macros”.





3.- In “Tools” -> “Macro” -> “Macros”, click the macro “Module1.Inicia” in the Macro name box and click run. The dialogue box that pops up can be used to find and replace the content of up to three multiline texts simultaneously.



Three practical examples of how to replace text in construction detail CD0101 follow.

Example 1:

Replace \varnothing_4 with $\varnothing12$

Example 2:

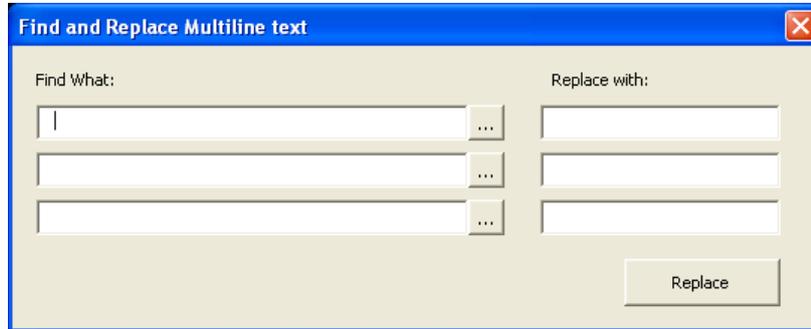
Replace \varnothing_4 with $12\varnothing16$

Example 3:

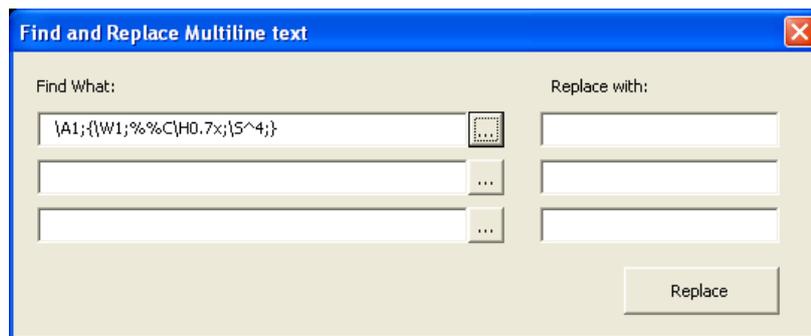
Replace \varnothing_4 with $\varnothing16$ spaced at 200 mm

Example 1:

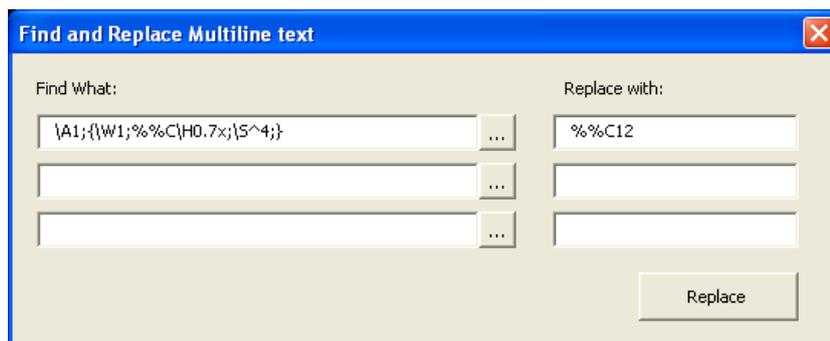
Step 1: click the button to the right of the first line under the “Find what” column in the “Find and replace multiline text” dialogue box.



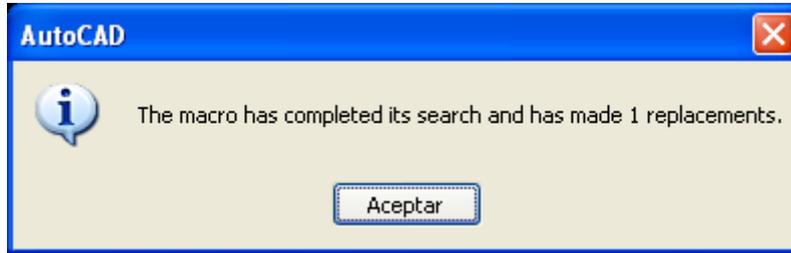
Step 2: select \varnothing_4 on the drawing. The dialogue box re-appears with the selected text in the first window.



Step 3: type “%%C12” (equivalent to \varnothing_{12} in AutoCAD) in the first line under the “Replace with” column.



Step 4: click “Replace”, drag the cursor from left to right to select objects and press enter or right-click to finish. A box specifying the total number of replacements will be displayed.

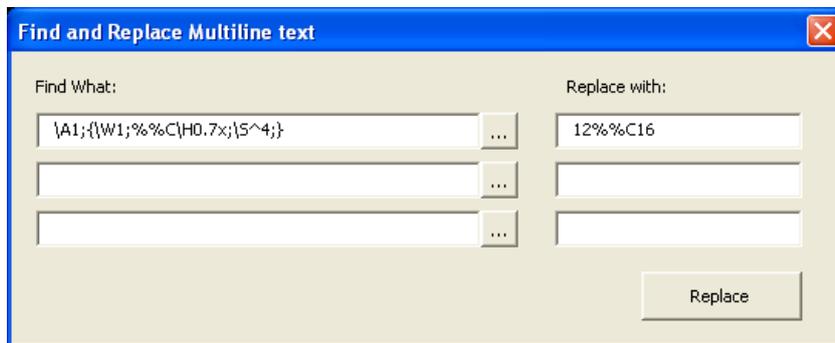


The changed drawing is displayed on the screen.

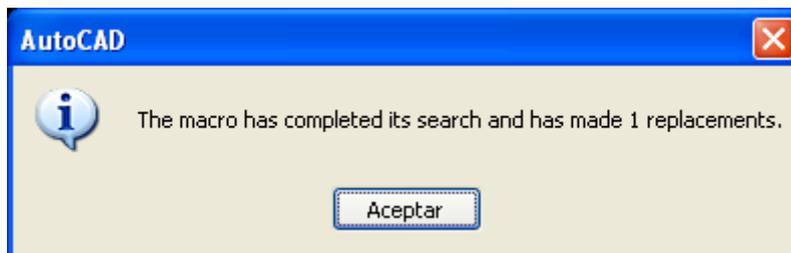
Example 2:

For example 2, follow steps 1 and 2 as described for example 1.

Step 3: type “12%%C16” (equivalent to 12 Ø16 in AutoCAD) in the first line under the “Replace with” column.



Step 4: click “Replace”, drag the cursor from left to right to select objects and press enter or right-click to finish. A box specifying the total number of replacements will be displayed.

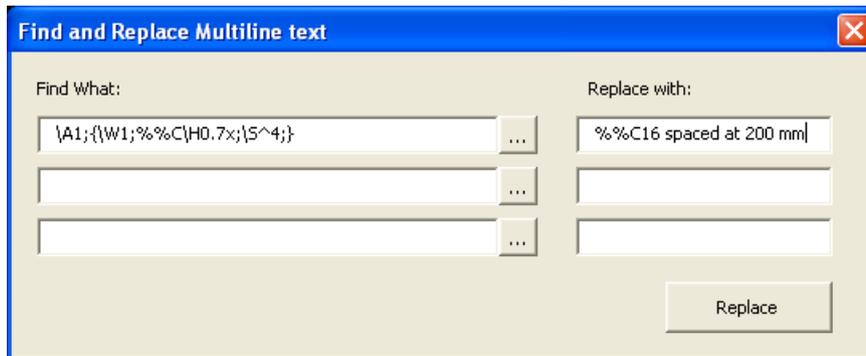


The changed drawing is displayed on the screen.

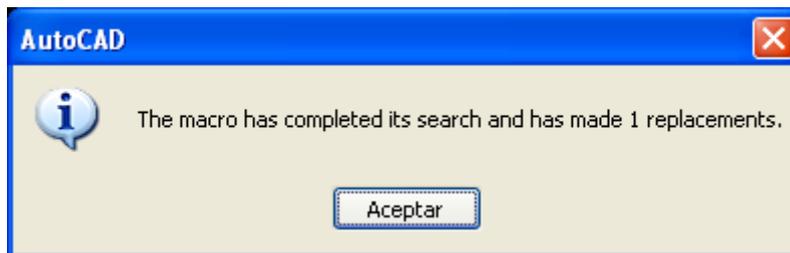
Example 3:

For example 3, follow steps 1 and 2 as described for example 1.

Step 3: type “%%C16 spaced at 200 mm” (equivalent to \varnothing 16 spaced at 200 mm in AutoCAD) in the first line under the “Replace with” column.



Step 4: click “Replace”, drag the cursor from left to right to select objects and press enter or right-click to finish. A box specifying the total number of replacements will be displayed.



The changed drawing is displayed on the screen.