

# LI Contour

## *Version History*

### **Version 7.2 - September 2006**

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- ✓ Added a textual coordinate editor. This is activated by the 'Text Editor' command in the Coordinate Editor. It is a spreadsheet style coordinate editor. Most of the commands in the Coordinate Editor are also available in the text editor.
- ✓ Added the "Reopen Surface" command to the File Menu. This option lists the last 10 surface model file names.

### **Version 7.1 - August 2006**

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- ✓ Added the capability to access the "Discover" mapping and analysis options. Discover is a special set of mapping options for water flow analysis, slope analysis, watershed area analysis, and 3-D viewing animation.
- ✓ When drawing a point map, the ability to draw the survey travel path was added. It can be drawn with either lines or arrows.
- ✓ The "Query Point" command now has an option to move the cursor to the last viewed point.
- ✓ Added "(unmodified)" indicator to the main windows' title bar when the current data file has been saved and not changed.

### **Version 7.0 - March 2005**

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- ✓ Conversion of the program from DOS to Windows.
- ✓ Increased point capacity to over 32000 points.
- ✓ Dramatic increase in speed of calculations.
- ✓ New 'Auto Process' command.

- ✓ New 'Single Surface Volume' command. (LI Contour V+)
- ✓ Automatic point number tracking.
- ✓ Control for line widths, and greater control for map entity colors and CAD layers.
- ✓ Two styles of title boxes for printed output.
- ✓ Automatically loads the last used file when starting.
- ✓ Text and point marker sizes can be preset, based on preset scales.
- ✓ Breakline numbers may be drawn. Breaklines may also be queried to display its end points X, Y, Z coordinates, the lines length, slope, and angle from North or East.
- ✓ DXF output can automatically use 3-D polylines when appropriate (I.e. 3-D Surface grids, surface border, etc.)
- ✓ Added support for General CADD Macro files.
- ✓ Removed: Text based editors for coordinate, border, and breakline information.
- ✓ Removed: Support for AutoCAD versions Release 12 and earlier.
- ✓ Removed: Support for GenericCADD version 5.0
- ✓ Removed: Next/Previous system when inserting a point into the border.
- ✓ Removed: Old Border command.
- ✓ Removed: Setup: Printed lines per page for text output.
- ✓ Removed: Direct support for pen plotters. Now supported through Windows printer drivers.
- ✓ Removed: Support for LANDIMPROVE v3.1 and earlier (XYZ) data files.

#### **Version 6.0a - December 1997**

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- ✓ Added support for AutoCAD R14 DXF files.
- ✓ During triangulation, if the last two points to be triangulated were duplicate points, and other specific criteria were met, the program would abort.
- ✓ When viewing a directory listing, if a sub-directory had the same name (first 8 characters) as a

file, LI Contour would always select the directory even if the file has highlighted.

- ✓ Added the file name to progress prompts. I.e. "Loading coordinates from FILENAME.MDL file:"
- ✓ Corrected problem with the Z Target point not getting properly reset if the elevation range of the data changes.
- ✓ In the Graph Output module, made the detection for decimal places vs. contour line interval and multiple more intelligent.
- ✓ Changed all prompts that report field area to allow more space for the numbers. With large field areas the display of the numbers did not line up neatly.

### **Version 6.0 - July 1997**

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- ✓ Added a new editor entitled the Graphic Editor. In this editor you can graphically add, delete, or edit data points. All maps are immediately redrawn to display any changes.
- ✓ Point elevations can now be displayed while in any graphic editor.
- ✓ Reorganized the border verification process. All border verification commands are within the Border Editor.
- ✓ Added a 'Swap' command to the Breakline Editor.
- ✓ Added a 5 line note area to the Volume Analysis Report (LI Contour V+).
- ✓ DXF layer names can now be user specified.
- ✓ Reorganized the Graph Menu to make it more logically arranged.
- ✓ Moved all line smoothing, text height, and dash line length controls from the Misc. Options prompt window to their respective map option.
- ✓ Added ability to specify, in Setup Options, plotter output to parallel ports LPT1 or LPT2.

### **Version 5.1 - May 1995**

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- ✓ Automatically recognizes the presence of the Profiler program and displays an option for Profiler on LI Contour's Main Menu.
- ✓ When specifying a file name, the directory viewer now can handle relative paths with the "."

and “..” symbols.

- ✓ Changed contour labeling routines to allow labels on shorter contour lines.
- ✓ Removed support for GenericCADD Level 3.
- ✓ Changed editor title line to two lines. Second line displays the comment line for the file.
- ✓ Added ability to calculate the 3-D surface area of a surface model when verifying the border and the surface is triangulated.
- ✓ Edit Options Command - Added “Zoom method” prompt and “Zoom factor/constant” prompt. These prompts control the method of zooming and the zoom step value.
- ✓ Cursor Step Command - Changed “Scale step when zoomed” prompt to read “Scale zoomed cursor step”.
- ✓ Added support for AutoCAD R13.
- ✓ When outputting to a CAD file, printer, or plotter, the completion message was changed from : “Press ENTER to continue”  
to : “Press ENTER to continue, ESC to abort”
- ✓ Faster printer output when only a portion of the field is printed. (Use of “Visible Tri” list.)
- ✓ Changed Border prompt window. Also, the “Project border to minimum elevation” and the “Draw border at minimum elevation” prompts are disabled if currently set to view in 2-D.
- ✓ Surface Grid - The “Label 2-D surface grid lines” prompt is disabled if view set to 2-D.
- ✓ Added Attention Windows - These windows are similar in function to Error Windows.

#### **Version 5.0 - October 1994**

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- ✓ Expanded printer support for most popular laser, bubble jet, and dot matrix printers.
- ✓ Support for extended memory, always allowing the maximum 5400 point capacity.
- ✓ Complete mouse support throughout entire program.
- ✓ New 3-D viewing controls - Target Point, Quick Eye Factor, easier 3-D controls.
- ✓ ASCII file previewer in Data Transfer-Input areas.

- ✓ New Search command in Coordinate Editor.
- ✓ Interactive duplicate point removal while verifying data.
- ✓ Optional display of either point numbers or point labels while in Border or Breakline Editors.
- ✓ Ability to jump to a specified point label while in Border or Breakline Editors.
- ✓ Faster redrawing of the screen when zoomed in (2-D or 3-D).
- ✓ Ability to use the decimal point of the elevation as the point marker on point maps.
- ✓ Can now easily rotate graphic printouts and plots.
- ✓ Changes to the user interface include skipping and disabling of menu options and prompts that are not applicable to current data.

#### **Version 4.0 - April 1992**

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- ✓ Support for mouse control of the cursor in the graphical editors.
- ✓ Support for Generic CADD 6.0.
- ✓ Selectable format for coordinate display, either X-Y or Y-X.
- ✓ Ability to merge coordinate data from ASCII files into existing data.
- ✓ Ability to load/save border information from/to an ASCII file.
- ✓ Ability to Graph the point label field on maps.
- ✓ Ability to rotate point labels (pt. number, label, and elevation) around the point marker.
- ✓ Support for Hewlett Packard HP-GL/2 language support.
- ✓ Support for custom Plotter paper sizes.
- ✓ User defined graphics drivers.
- ✓ A setup option for a default CAD file directory.
- ✓ Changed the color number range for AutoCAD DXF files from 1-15, to 1-255. Also changed Generic CADD's color number range to 0-255, was 0-15.

- ✓ A setup option to set the angle convention to either surveyor's or engineer's notation.
- ✓ Printer setup was expanded to include:
  - User selectable printed lines per page. May range from 1 to 255.
  - User selectable addition of formfeed command at the end of all printer activities.
  - Ability to set the printer initialization string.
  - Ability to set the printer reset string.
- ✓ Added the display of the default data directory to all places where a file name is entered, including MDL files, all transfer files, and CAD files.
- ✓ Ability to print breakline information via Print command in the Coordinate Editor.
- ✓ Verify now calculates and reports the range for X, Y, and Z coordinates. Verify also calculates the 2-D area of the surface model.
- ✓ In the graphical editors, the <\*><+> key sequence toggles between the Quick Zoom level and the zoom level that you were at previously.
- ✓ A new command, Undelete, for the Breakline Editors.
- ✓ User definable dash space length.
- ✓ Independent contour line label height and point label text size.
- ✓ Plotter spool file capability. Also added the LICPLOT program to plot the spool files.
- ✓ LI Contour V+ -- When printing the cut/fill point listing, an option was added to control the printing of points with zero cut/fill.
- ✓ Appendix F to LIC manual. It is a discussion of File Management theory.
- ✓ Appendix G to LIC manual to explain the LICPLOT Program.

### **Version 3.0 - April 1991**

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- ✓ Faster triangulation (approximately 2-5 times faster).
- ✓ Selectable background color for the main screen.
- ✓ Shadows for menus & windows.
- ✓ Enhanced Jump command (graphic editors).

- ✓ Easy Hot key switching between graphic and text based editors.
- ✓ Easier inputting of a series of breaklines.
- ✓ Enhanced DXF file support.
- ✓ Direct support for Generic CADD Batch files.
- ✓ Support for Hewlett Packard 7475A plotters.
- ✓ Plotter support for 8.5 x 11 paper.

#### **Version 2.0 - January 1990**

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- ✓ Introduced V+ option for stock pile volume calculations

#### **Version 1.0 - May 1989**

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- ✓ Initial Release