

Readme for Advanced Road Design 2011.00

This readme contains important information regarding the installation and use of the Advanced Road Design 2011.00.

Installation Instructions

New Installation: Follow the instructions on the CD and the *Installation and Licensing Guide* found on the install CD.

Upgrade/Update: This installation is a new version of Advanced Road Design, version 2011 for AutoCAD Civil 3D 2011 32-bit. **You do not need to uninstall any previous versions of Advanced Road Design.**

Licensing

New Installation: You will need to authorise the software, please refer to the *Installation and Licensing Guide* for more information.

Upgrade/Update: The existing licensing from a previously installed ARD 2008/2009/2010 will be used - there has been no change to the licensing system.

General

This Install is a port of the current 2010.05 version of Advanced Road Design onto AutoCAD Civil 3D 2011 32-bit platform. It includes all the fixes and enhancements from all previous Advanced Road Design 2010 releases.

IMPORTANT NOTE: This install is for the 32-bit version AutoCAD Civil 3D 2011 and **will not** install on the 64-bit version.

Resolved Issues

This installation resolves a number of bugs & issues, including:

ARD Roads

- Using a blank entry for the right side of a Fixed Batter will now omit the batter from the model. Previously leaving the right entry blank would cause the software to crash
- The selected sections for Volume Reports are now used to generate the volume report when the Trim Intersection is NOT selected. Previously the volume report was always generated using all sections, irrespective of the option selected when the command was run.
- Cross Section Plotting:
 - The Crossfall annotation options of NS and NS & Design now work as expected. Previously using either of these options would result in no crossfall annotation on the cross sections.
 - All the Masking Options now work as expected. Previously using any of these options would result in no masking of any elements on the cross section. This command will only mask a model added to the cross section using Section By Featureline option.
- Long Section Plotting:

- The Cut/Fill volumes now calculate correctly when Selected Section spacing is used. Previously the volumes displayed at a section was calculated based on All Sections and may display incorrect values when Selected Sections was used.
- The Cut/Fill Volumes now calculate using the bulking factors as defined in the Design Data form for the road. Previously they were always calculated based on the solid mass values.
- In some situations an Alignment could be found at multiple instances when a kerb return was located and caused the kerb return not to create. This has been fixed and in these situations the kerb return will create as expected.

ARD Pipes

- The software now sums all bypasses applied to a pit. Previously the software incorrectly summed multiple bypass applied to a pit.
- The Vertical Grading Editor (VGE) will now open when a network that has been created with zero length pipes. Previously when a network containing zero length pipes was opened into the VGE, the software would crash.

Known Issues

The following is a list of known issues with the software

ARD Pipes

- VGE
 - The slope displayed in the VGE may display a rounding error. This error in display on the VGE does not affect the plotting or reports.
 - The Pipe ID displayed is the automatic number assigned by the software, even if the pipes have been otherwise named.
 - The software may crash if you have or have had two or more VGE windows open displaying the same network and delete a pit along a pipe common to both VGE windows.

ARD Roads

- The Display Surface Model as 3D Faces command can yield incorrect triangulation at selected locations, normally expressed by the ignoring of breaklines in the intersections. You may be able to correct this issue by applying additional sampling