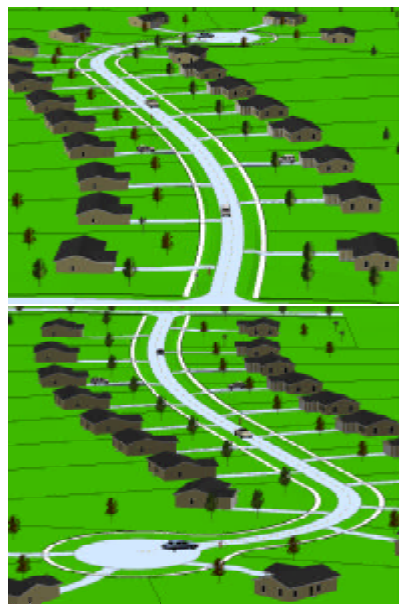


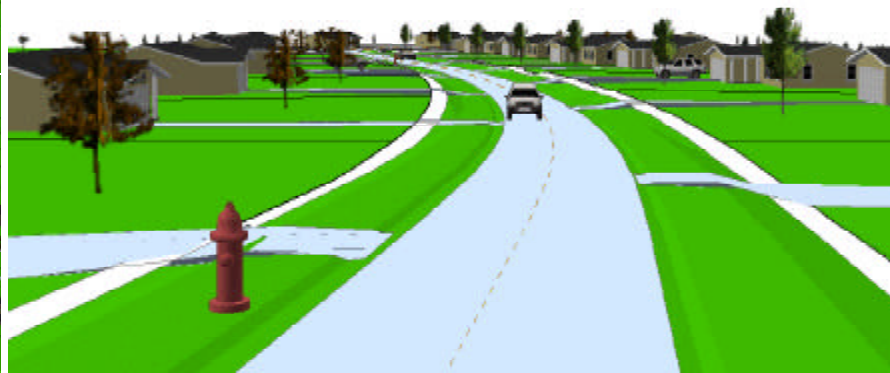
CEDRA-AVland Demo Pack

For those that are skeptics, and wish to try a product before venturing into it, The CEDRA Corporation provides a fully functioning demonstration program that includes: (a) sample problems, (b) step by step instructions and (c) data which demonstrate the major functionality of the software. The user, following the step by step instructions, will see firsthand the capabilities offered by the

software. CEDRA Demo Pack users have the ability to work with their own data, if so desired. Demo packs can be used to try all of the software's functionality. CEDRA's demo packs have no time limitations so they can be evaluated for as long as desired. The demo packs are an excellent alternative to the traditional "rolling-demos" and allow the user to get an up-close look at the software using either the demo pack data or their own.

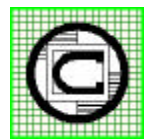


CEDRA-AVland with ArcGIS 3D Analyst provides the engineer a tool to create realistic images from engineering design models



Contact **The CEDRA Corporation** on how to order:

CEDRA-AVcad™ for general feature editing, annotation and CAD tools, **CEDRA-AVcogo**™ for comprehensive COGO tools, **CEDRA-AVland**™ for roadway and site engineering, **CEDRA-AVparcel**™ for parcel mapping and maintenance, **CEDRA-AVsand**™ for sanitary, storm and combined sewer modeling, **CEDRA-AVwater**™ for water distribution and quality modeling, **CEDRA-DataEditor**™ for data entry and maintenance, **CEDRA-DxfExport**™ for DXF file exporting.



The CEDRA Corporation

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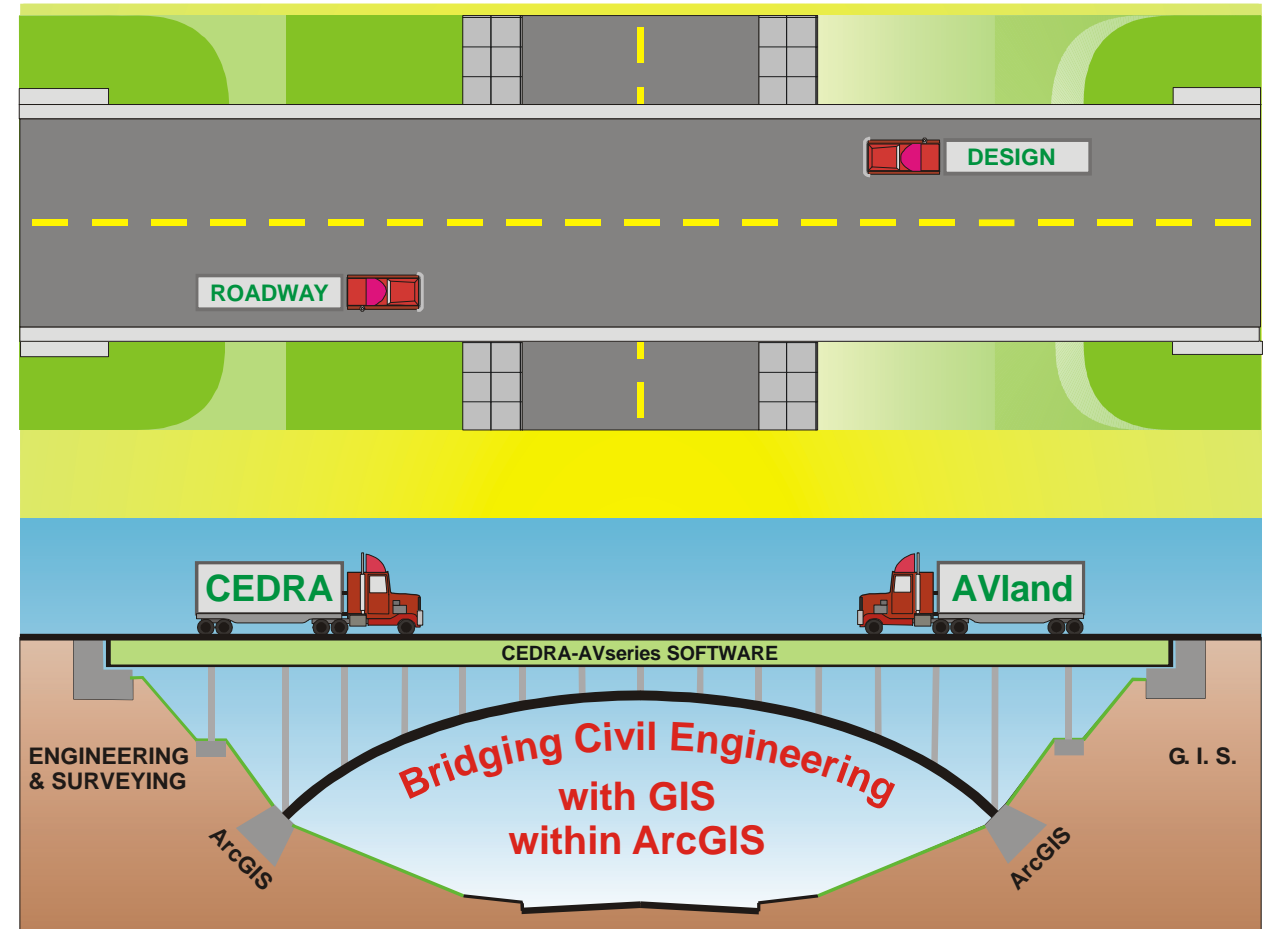
E-mail: cedra@cedra.com
URL: <http://www.cedra.com>



AUTHORIZED ESRI
DEVELOPER
and
RESELLER



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Combine engineering and geographic information systems?
They said it couldn't be done.
They said nobody would do it.

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From basic ground survey to the production of the final engineering design plans all work may now be carried out entirely within ArcGIS® without the need of exiting and entering other third party software.

May you be a surveyor or civil engineer, you will find that The CEDRA Corporation can provide you with the appropriate solution to your surveying and/or engineering applications pertaining to:

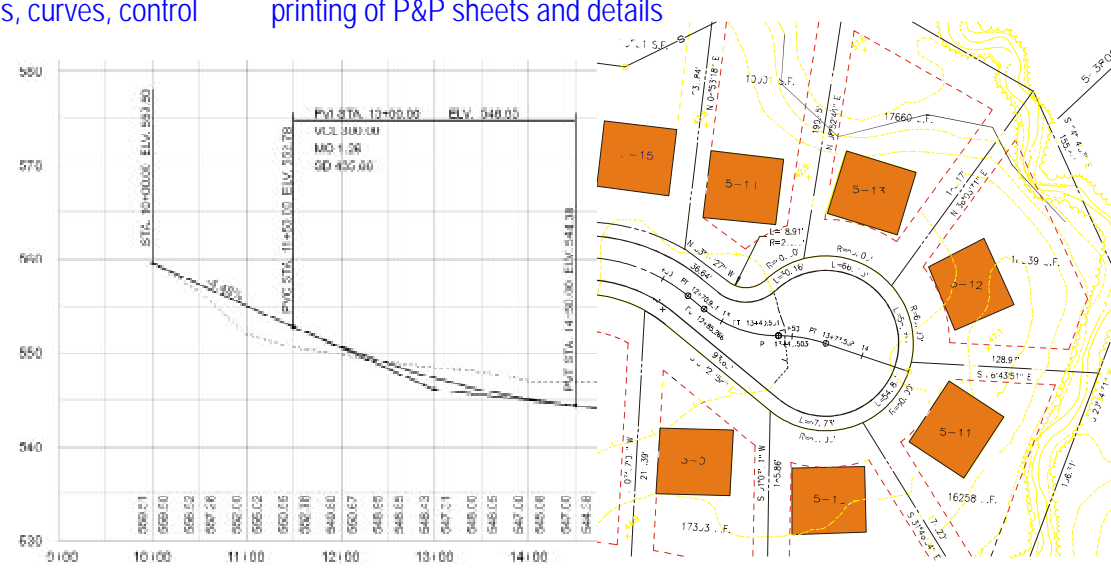
- Topographic mapping,
- Parcel mapping and maintenance,
- Roadway and site design,
- Plan and Profile drawing production, and
- Water, storm water and wastewater system modeling, design and maintenance.

Base Topographic Map Development

- Extract ArcGIS database information representing spot points and/or contours
- Import field survey information from GPS XYZ, radial or cross section surveys
- Assign survey point descriptions, and codes from a user defined library having an unlimited number of point codes
- Automatic decoding of point codes to create the planimetry
- Adjust open, or closed traverses by four methods with formal report
- Use a multitude of CAD and COGO tools to augment the field data
- Create contours at any interval from spot points, cross sections, or TIN
- Specify contour smoothing factor
- Interactive editing of the TIN
- Extract profiles and cross sections from a TIN, or from contour strings
- Merge two TINs to create a new TIN
- Generate a polyline representing the perimeter of a TIN
- Generate an annotated profile from 3D polyline
- Create a fully annotated base topographic map

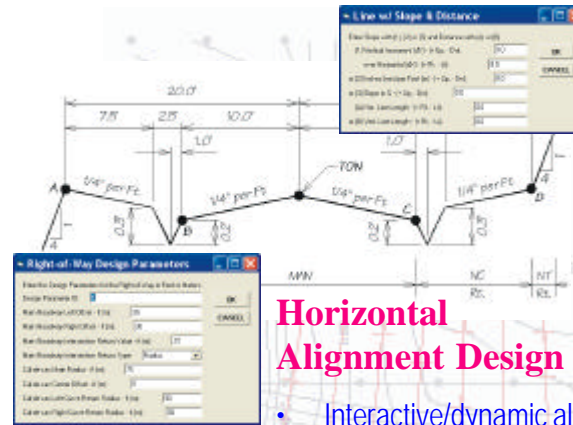
Generate Final Design Drawings

- Mass annotation of:
 - Horizontal alignment stationing
 - Horizontal curve tables
 - Parcel and ROW metes and bounds
 - Lot areas and other attributes
 - Vertical alignment grades, curves, control points, site distance, turning points, grids and other features.
 - O.G. and F.G. cross sections
- Custom annotated profile and X-section drawings
- Mass generation of plan and profile (P&P) drawings
- CAD-like drafting functionality to augment the production of drawings
- Custom annotated profile and X-section drawings



Project Design Specifications

- Create (draft) and apply an unlimited number of typical roadway sections (templates)
- Specify
 - Right-of-way, pavement, and other zone ribbons
 - Cul-de-sac design criteria
 - Subdivision zoning regulations for streets, lots and house footprint clearances
 - Stop distance and sight triangle criteria
 - Units of measure as SI, or US Customary



Horizontal Alignment Design

- Interactive/dynamic alignment design by specifying the PI, PC, PT, POC, curvatures, or other controls
- Over 120 design/drafting commands, and over 120 cogo tools
- Mass stationing and annotation
 - Interactive application of typical roadway sections (templates)

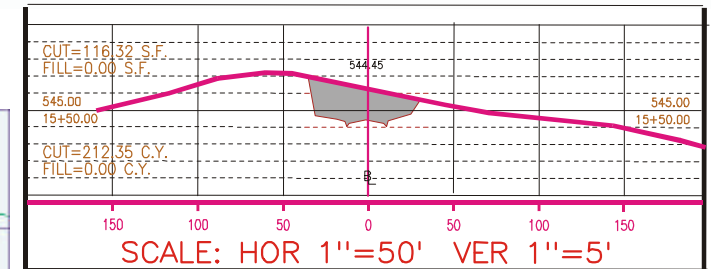
Vertical Alignment Design

- Interactive/dynamic alignment design by specifying the PVI, PVC, PVT, POVC, curvatures, grades or other controls
- Interface w/Hor. Alignment & O.G. Profile
- Identification of vertical curve crest, or sag points

Final Grading

- Unlimited roadway template changes
- O.G. & F.G. annotated profile
- Alignment report and curve data annotation
- Mass extraction of O.G. and up to 10 F.G. annotated cross sections
- Annotated profile at curb line, or other offsets
- Finish surface TIN and contours
- Merge F.G. and O.G. TIN's and contours
- Unlimited surface templates
- Earthwork quantities report
- Accounting for shrinkage, swelling & muck
- ArcGIS 3D Analyst interface

Mass Generation of Fully Annotated OG and FG Cross Sections



Sample Cross Section With Customizable Annotation Parameters, Earthwork Quantities and Optional Grid

