



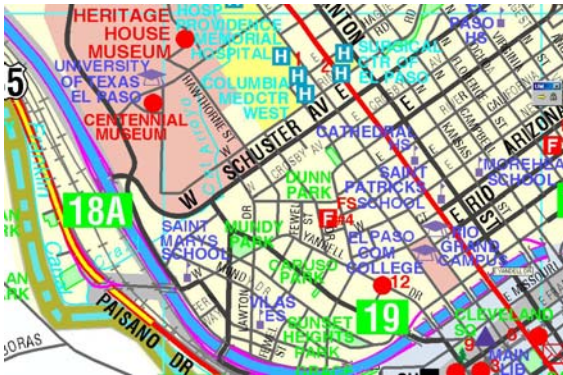
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Cartography Enabled Geodatabase Development For US Cities

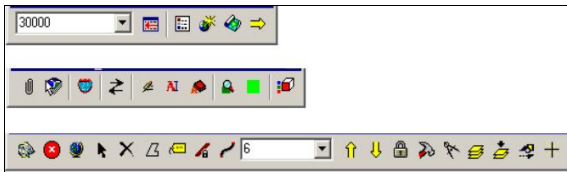
Cartography-Enabled Geodatabase- City Details



Cartography-Enabled Geodatabase- Downtown Details



Customized tool developed in-house for ArcGIS



Client

The client is a leading publisher and distributor of geographic information for the United States.

Business Need

The client publishes a wide range of maps for the North American market. To gain a competitive advantage the client needed to create a cartography styled geo-database for the region, which could be used to enhance and easily update road atlases for the US.

Solution

The project demanded effective integration of popular GIS and software platforms such as ESRI ArcGIS and AutoDesk. RMSI used ESRI shape files for street data along with other reference data such as wall maps, third party and GDT street data for data integration, research incorporation, and edit proofs to selectively integrate and create an accurate GIS database.

RMSI generated text labels using Maplex, which RMSI further processed to appropriate unplaced and overlapping labels. Annotations were thoroughly checked to ensure they linked with their corresponding features and orientation. Approximately 40,000 to 50,000 annotations were tidied for each title.

To meet short timeframes and maintain accuracy levels, RMSI automated and customized processes. Customization was done using Arc Objects, ARX, VB, Auto Lisp and C++.

Key project activities included:

- Multiple-step processing of inputs received from the client, such as collapsing of double roads
- Extracting additional information from the existing product and other GIS sources
- Placing bridge and highway route shield symbols in the database
- Processing Maplex generated annotations to maintain high quality standards
- Converting the database to AI and PDF format

Benefits

- Delivery of a cartography-enabled geo-database, as well as print-ready files in PDF and AI formats
- With slight modifications the output from the geo-database could be published as wall / fold / flip maps

Technologies

- ArcGIS 8.x, ArcView 3.x, Arc Info NT, AutoCAD Map
- Adobe Illustrator 9.0
- CorelDraw 10
- ArcObjects
- ARX, AML, Auto Lisp, C++, VB and VBA