

Lincoln County Strategic Plan

Current Status:

Precision input mapping:

Lincoln County has 1225 assessor maps. The county has spent the last 9 years remapping those maps from hand drawn maps on drafting film, to digital CAD maps. The maps are stored as individual files with levels of information within a specific map. With the completion of CAD remapping, the county will have met the mapping standards for ORMAP goal 3. The county has completed this process on 791 maps or 64% of the total. If we continue to receive the assistance that we have been given from ORMAP and other partners, we expect to complete CAD remapping by the middle of 2007.

Goal 3 timeline:

Precision input mapping of the urban areas of the county should be completed by the end of 2005. The effort will then shift to the rural areas to complete the remapping project.

Staff:

The Automated Mapping Cartographer from the Assessor's office is in charge of remapping. Various grant monies also fund a temporary cadastral mapper working out of the GIS department, and occasional temporary clerical help.

Procedure:

For a given assessor map the most recent deed is researched for each tax lot. All of the recorded surveys pertinent to that map are referenced, as are all road records. The maps are created with Microstation software, with utilities provided by DOR. Using the County's Geographic Coordinate Database for initial control, we reconstruct the tax lots with precision input. As lots or plats are completed they are rotated to fit the state plane grid NAD 83(91). Surveys are used to rectify faulty deed descriptions and assist in location and rotation. Watercourses and other ill-defined features are digitized from orthophotography. Positions may be field verified by the County Surveyor's Office. Once a map is completed, the following procedures are run to insure the map is GIS-ready:

1. Add a centroid to each parcel. Graphically group the centroid, tax lot number and the acreage together.
2. Add a code centroid and graphically group it to the code number.
3. Add a map boundary (level 51) and label
4. Explode all cells (drop complex status).
5. Edge match with adjacent maps.
6. Check every level to make sure the information on it is correct and have the

- map reviewed by another cartographer.
7. The MDL application called MRF CLEAN is run to find dangles and overshoots and insure that all tax lots, roads, and map boundaries form closed polygons.
 8. DOR'r STROKE utility is run to convert spiral curves to line strings.
 9. The MDL application called LBJUST is run to justify all text lower-left.
 10. Convert the Microstation CAD drawing to an ArcInfo coverage using a customized AML.
 11. Export a shapefile from ArcInfo for use in the County's GIS system.

Maintenance:

The digital maps are maintained as new deeds, plats and Orders are recorded. The automated Mapping Cartographer makes the updates, and a new shapefile is created from the revised CAD maps.

Regional Cooperation:

The remapping process is consistent with the Mid-West Regional goal of a consistently accurate tax lot map for each County that can then be tied together.