

ZIP Code Update Project

TOPICS

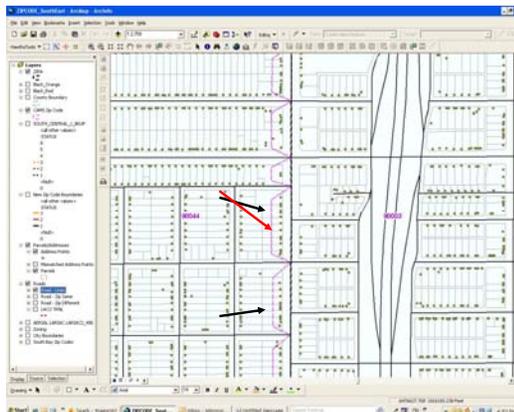
- Problems with existing ZIP Code layers
- Requirements for new ZIP Code layer
- Go over the Process of creating new ZIP Codes
- What's Next

PROBLEM

- Existing ZIP Code layers created for their own specific purpose

- Thomas Brothers ZIP Code
 - > Has accuracy issues

- CAMS ZIP Code
 - > Captures streets/addresses
 - > Cuts parcels



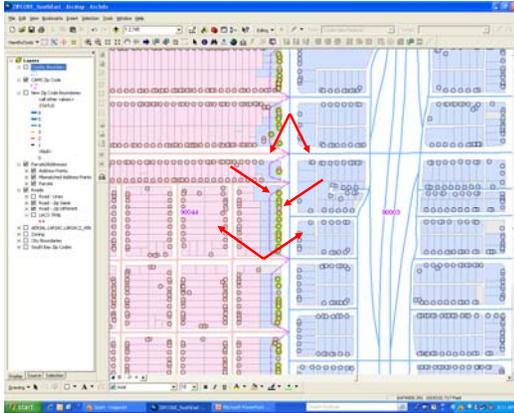
REQUIREMENTS

Create ZIP Code layer that would serve everyone's needs

- Follow parcel boundaries
 - (Parcel Specific) – replacing Thomas Brothers layer
- When necessary, cut through parcels with multiple addresses in two ZIP Codes
- Not cut streets but attach at their endpoints
 - (Parcel/Street Specific) – replacing CAMS layer
 - Verifying Voter Addresses
 - Emergency Response
- Accurate and cartographically appealing

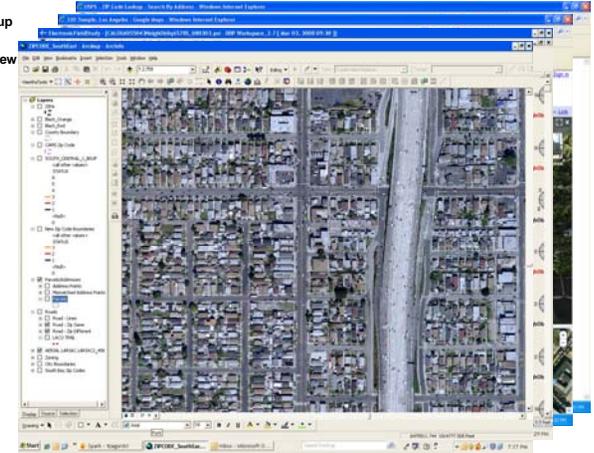
BACKGROUND - WORKING DATASETS

- Assessor Parcels – shaded by ZIP Code
- CAMS address points – shaded by ZIP Code
- Located "mismatched" address points – used as an indicator
- CAMS DIME file (streets) – shaded by ZIP Code
- Existing CAMS ZIP Code layer



ADDITIONAL DATA SOURCES

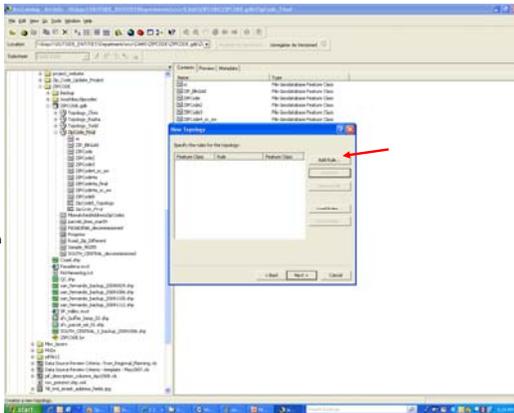
- USPS ZIP Code Lookup
- Google Maps Streetview
- EFS Oblique Imagery
- Ortho Imagery



PROCESS

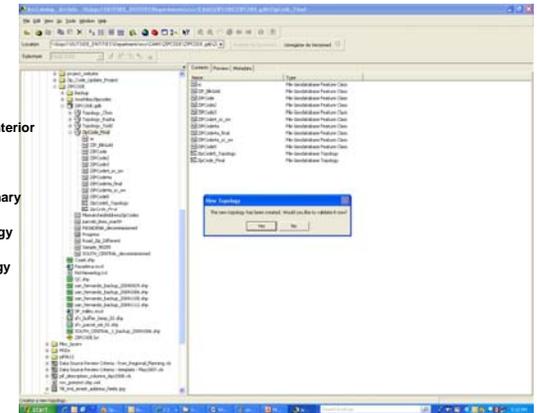
SETTING UP THE WORKING ENVIRONMENT

- Personal Geodatabase
- Create Topology
 - ArcCatalog
 - New topology interface
 - Set topology name / cluster tolerance
 - Feature class it references
 - Feature class rank (how much it moves when validated)
 - Add rules



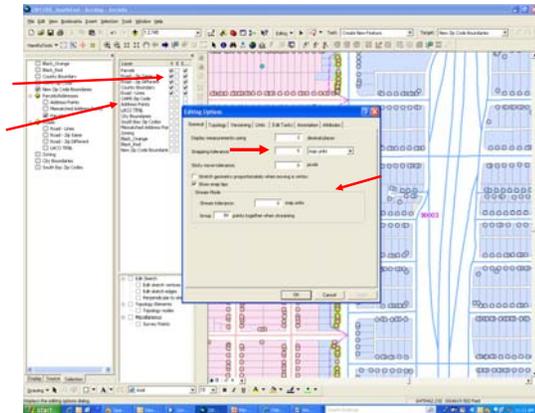
SETTING UP THE WORKING ENVIRONMENT

- Select rule(s)
 - Six rules
 - Must not overlap
 - Must not have dangles
 - Must not intersect
 - Must not intersect or touch interior
 - Must on self-intersect
 - Must be single part
- Click "Next" to generate summary
- Click "Finish" to create topology
- Finally asks to validate topology



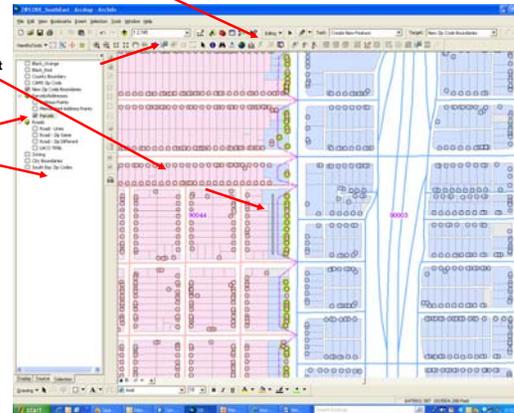
SETTING UP THE WORKING ENVIRONMENT

- Set snapping environment
- Set feature snap agent (what linework snaps to)
 - Vertex
 - Edge
 - Endpoint
- Set layer order for snapping importance
 - drag and drop
- Set snapping tolerance



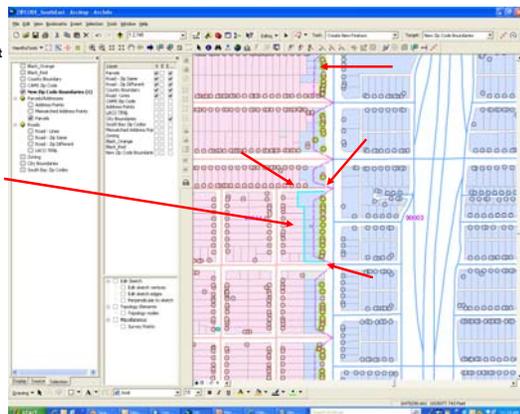
STARTING THE EDITING PROCESS

- Begin editing process by selecting "Start Editing"
- Select location where file to edit resides
- Select the Target layer to edit
- Begin trace process
 - Copy and pasting
 - Moving vertices
 - Tracing
- Set selectable layer
- Grab select tool
- Select parcels to trace



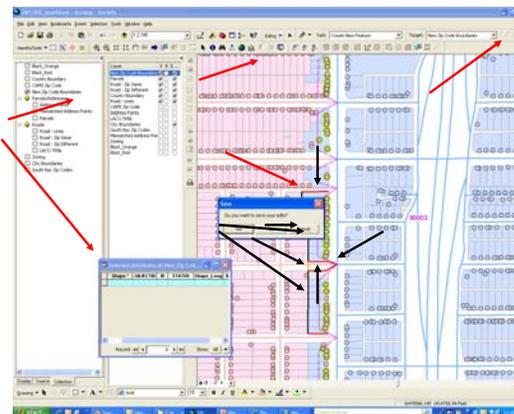
TRACE NEW FEATURE

- Select Trace Tool
- Position cursor on starting point (parcel vertex)
- Click, hold and drag
- Stop at the endpoint vertex and click to finish
- ArcMap quickly shows all new vertex points added in the arc
- ArcMap then shows newly created line in select mode



SPLIT FEATURES AND ADD ATTRIBUTES

- With the newly created arc selected, grab split tool
- Position cursor on vertex and click to split
- Open the attribute table for the layer being edited and code the features
- Verify that the features have been coded correctly
- Repeat the process
- Add additional features to connect the arcs
- Stop editing
- Save edits



BOUNDARY CREATION

- New ZIP Code layer have boundaries arcs coded as:

- 1 – Shared arc (black)
- 2 – Street arc (red)
- 3 – Parcel arc (orange)

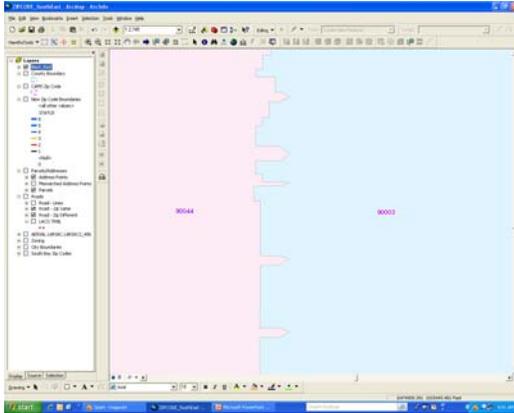
Allows for two replacement layers to be created

- 1, 3 – Thomas Brothers
- 1, 2 – CAMS

- Run definition query to get the Thomas Brothers replacement layer (Parcel Specific)

- Build polygons and add attributes

- Repeat the process to get the CAMS replacement layer (Parcel/Street Specific)



WHAT'S NEXT

- Anticipate it being ready in approximately one month
- Place it on eGIS website
- Layer will need to be updated!!
- Regional Planning will maintain layer
- Work with Post Office
- Questions?