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Planning Tomorrow Today

Collector Street Plan

April 25, 2018

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Today's Objective

- Background on collector street planning at DCHC MPO
- Understand benefits of collector street planning
- Identify possible issues
- Get advice and consent from TC members

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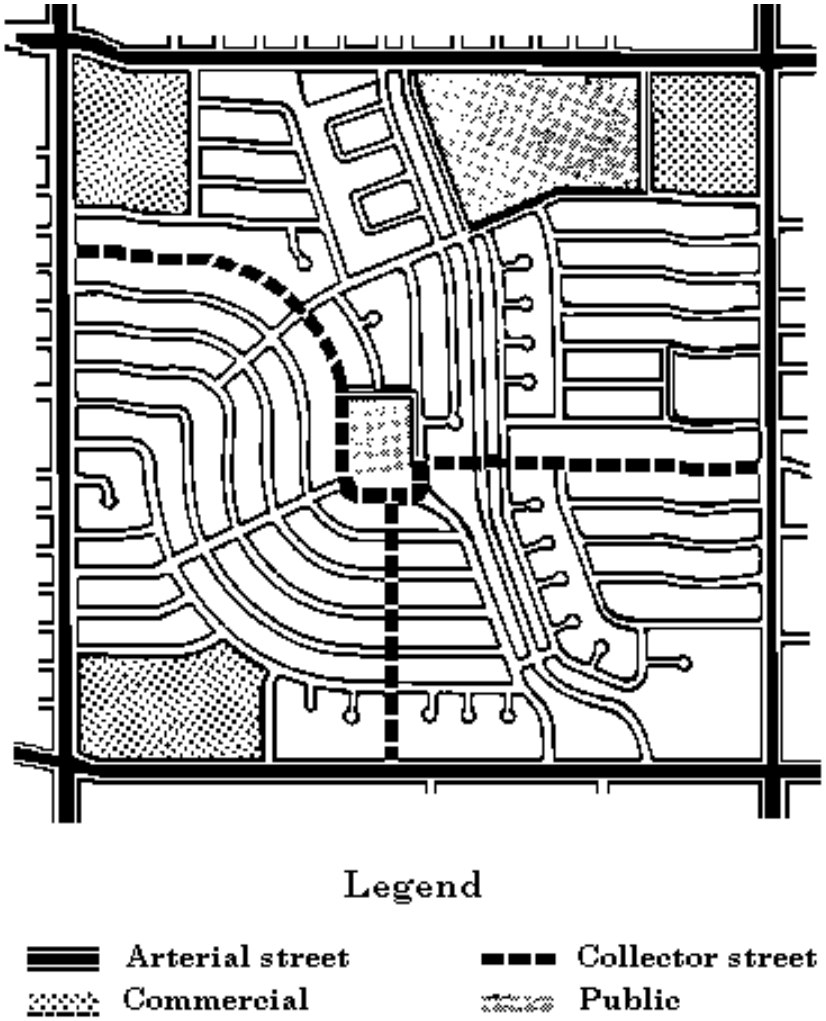
What is a collector street?

They form the intermediate link between local streets and arterial streets in the roadway network.



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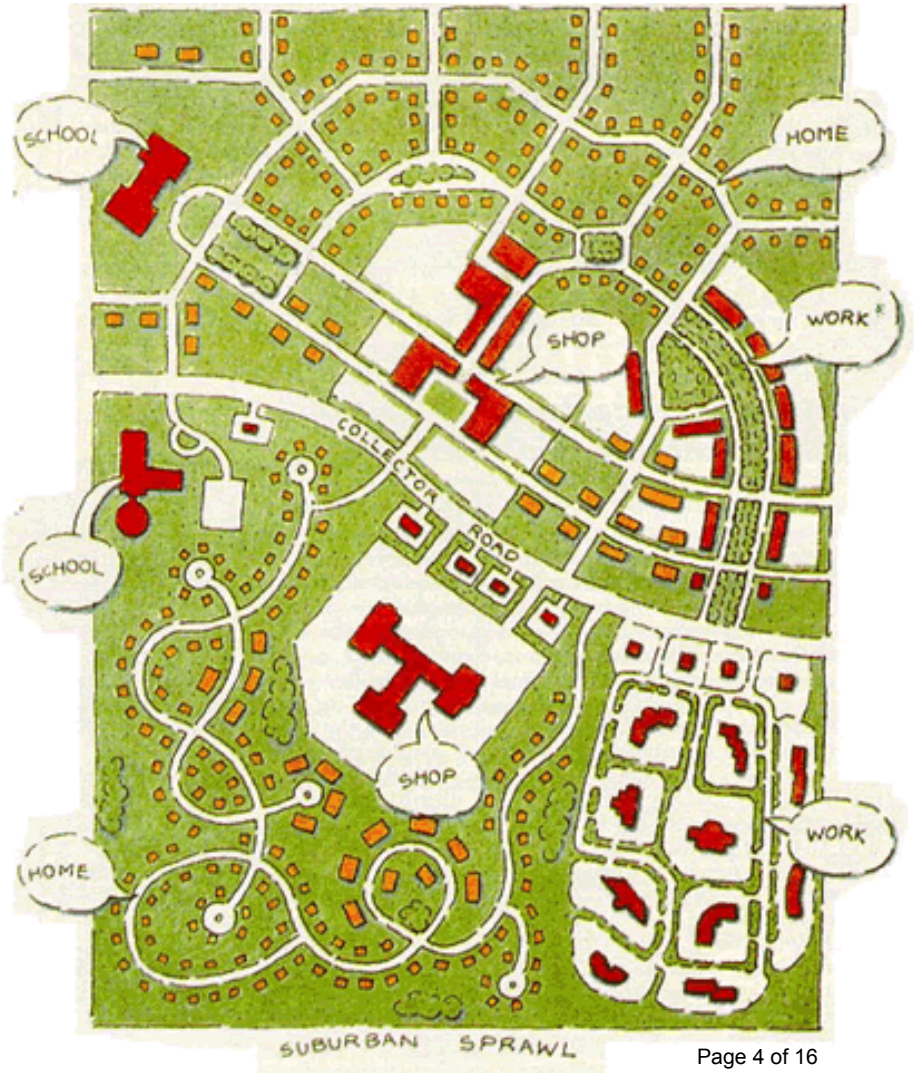
What are the benefits of a collector street?

- Greater distribution of traffic, reducing overall traffic congestion and the concentration of traffic on major roads for short trips.
- Improved routes for pedestrians, cyclists, buses, cars, deliveries, and emergency response vehicles.
- Reduced travel times without faster speeds.
- Delay or avoidance of widening major arterials beyond four lanes.



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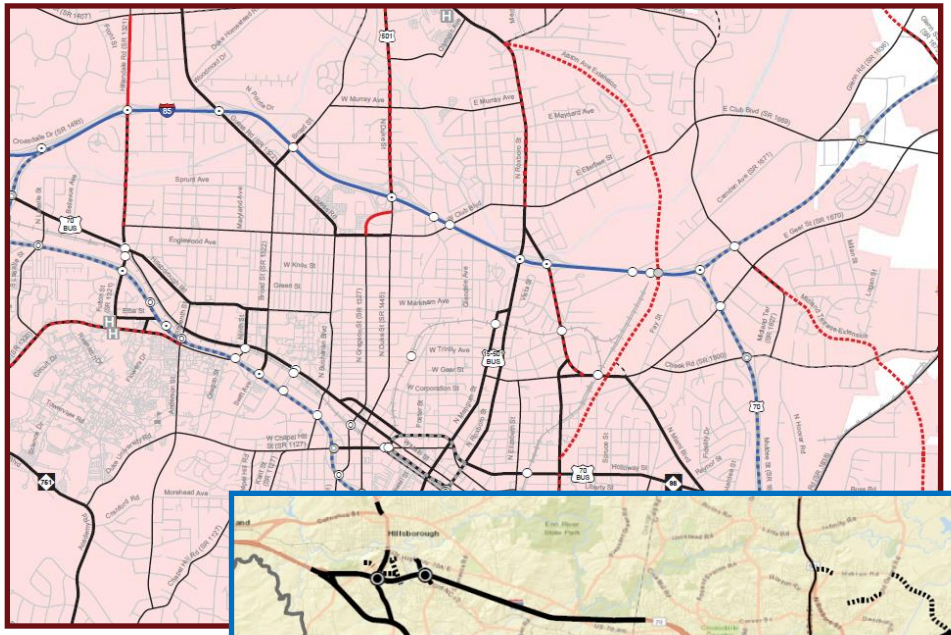
Where is MPO in long-range planning?

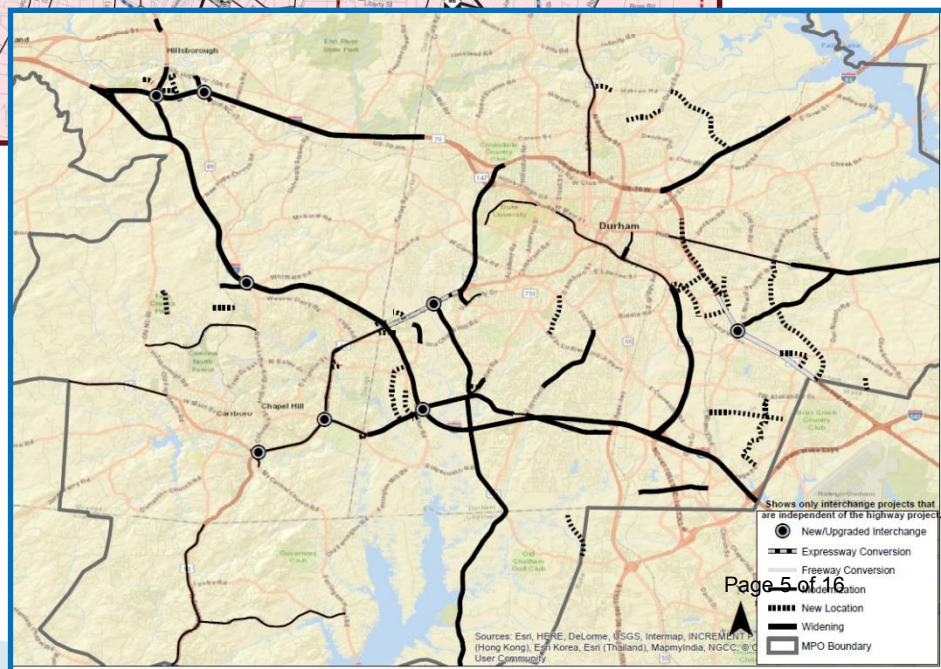
Comprehensive Transportation Plan (CTP)

Adopted June 2017



2045 Metropolitan Transportation Plan (MTP)

Adopted March 2018



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Where is MPO in long-range planning?

Corridor Plans

- NC 54/I-40 Corridor Study (2012)
- US 15-501Corridor Study (2014)
  (Chapel Hill to Pittsboro)
- NC 98 Corridor Study (2018)
- NC 54 West Corridor Study (2019)
- US 15-501 Corridor Study (2019)
- Downtown Durham Transportation Study (2019)

Transit

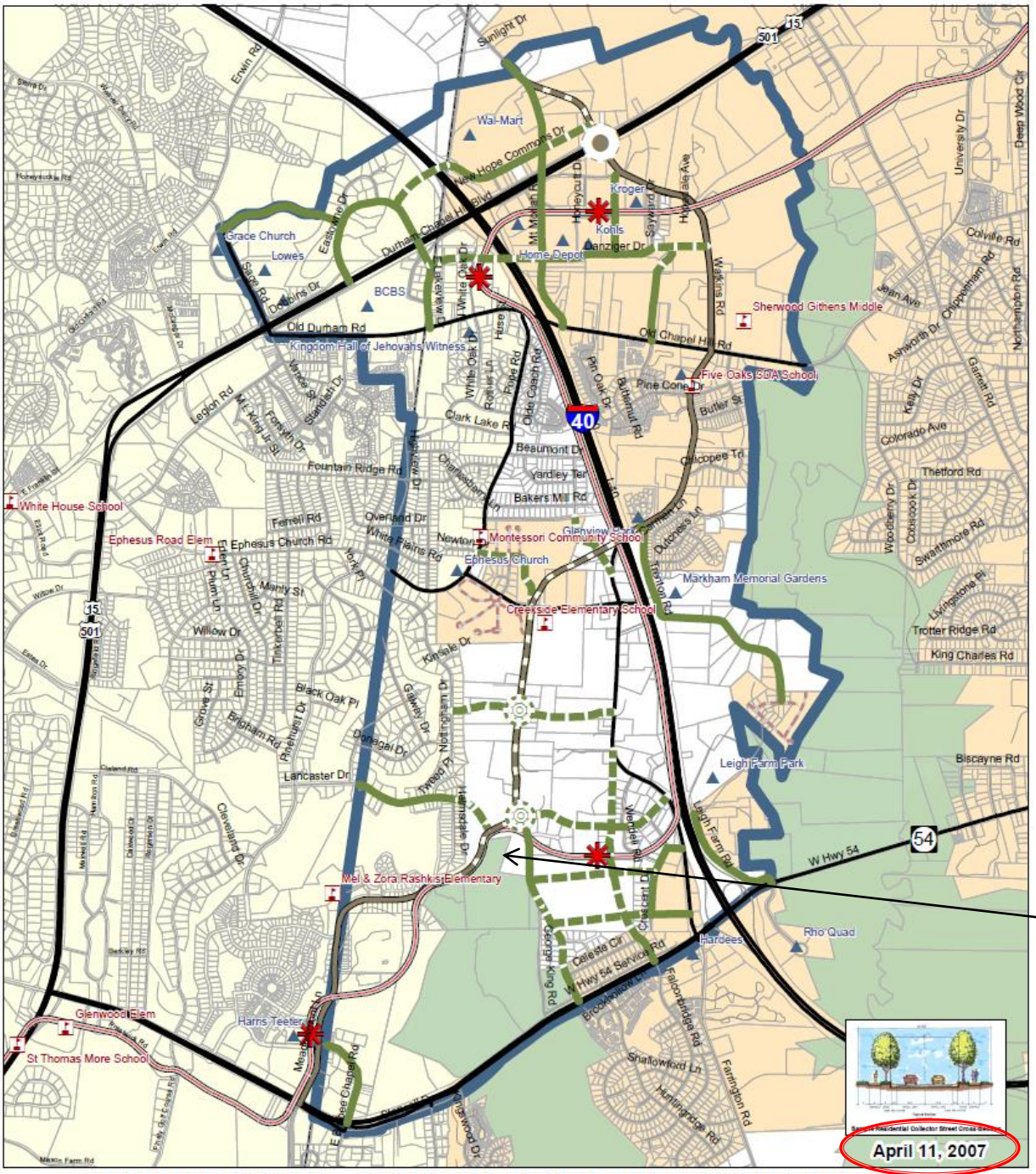
- Durham-Orange Light Rail Transit FEIS (2016)
- North-South BRT (2016)

Feasibility Studies

- I-40 Express Lanes Feasibility Study
- NC 147 Feasibility Study
- NC 54 Widening, from I-40 to NC 55
- NC 751 Widening, NC 54 to US 64
- Northern Durham Parkway

Collector Street Plans

Southwest Durham/ Southeast Chapel Hill Collector Street Plan



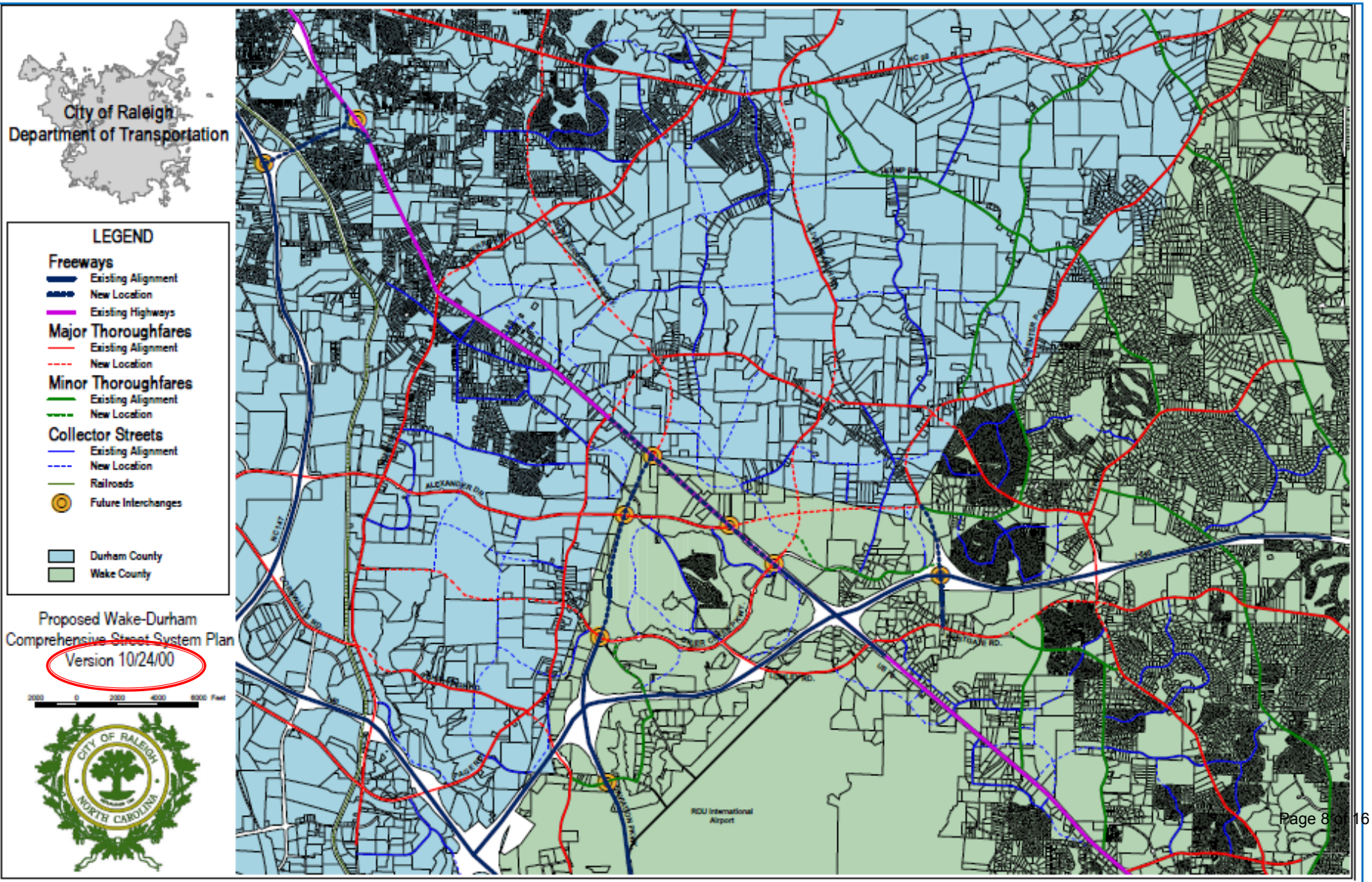
Southwest Durham - Southeast Chapel Hill Collector Street Plan

Adopted CSP Network

Southwest Durham Drive alignment was changed in 2045 MTP

Collector Street Plans

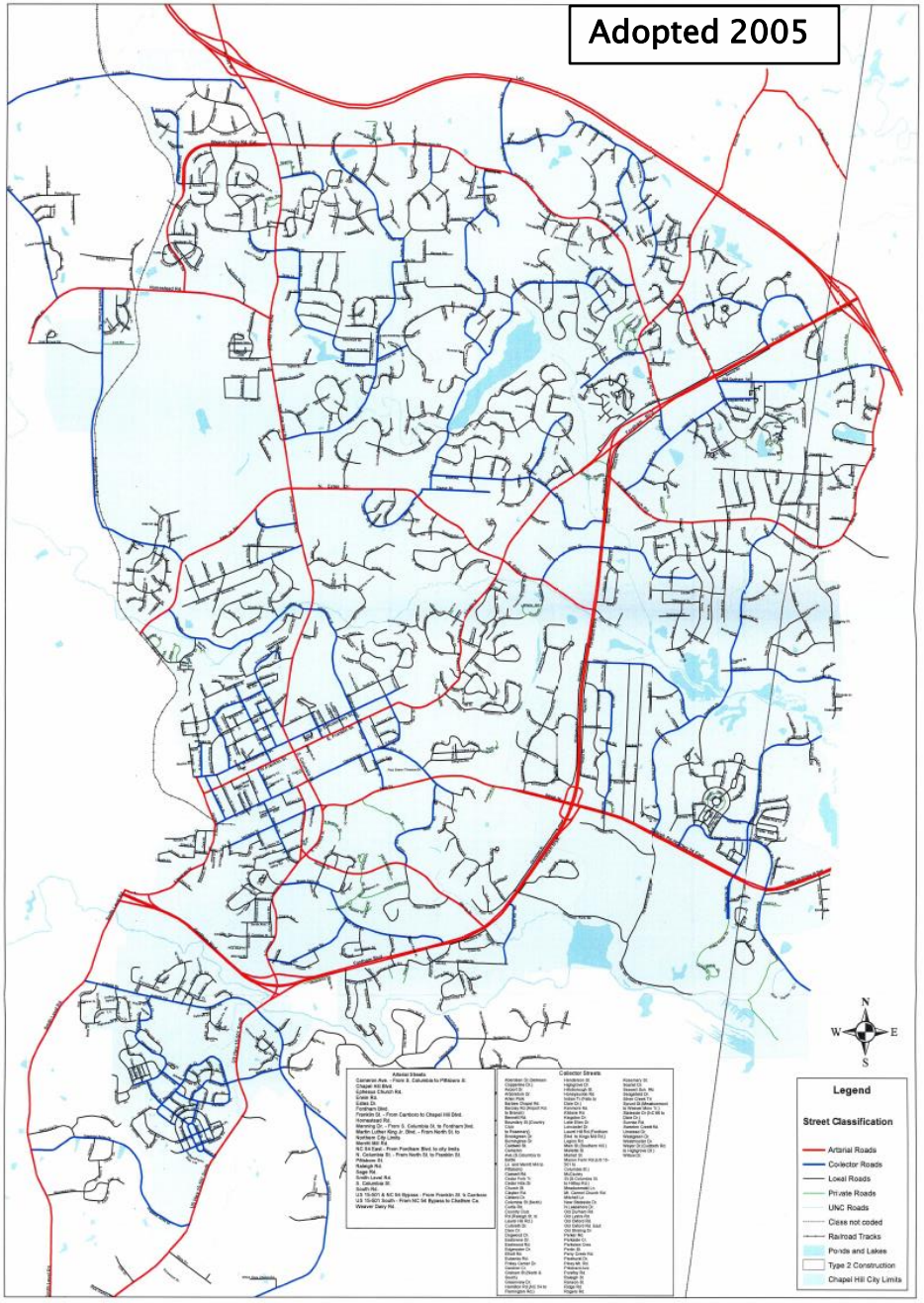
Wake-Durham Comprehensive Street System Plan



Collector Street Plans

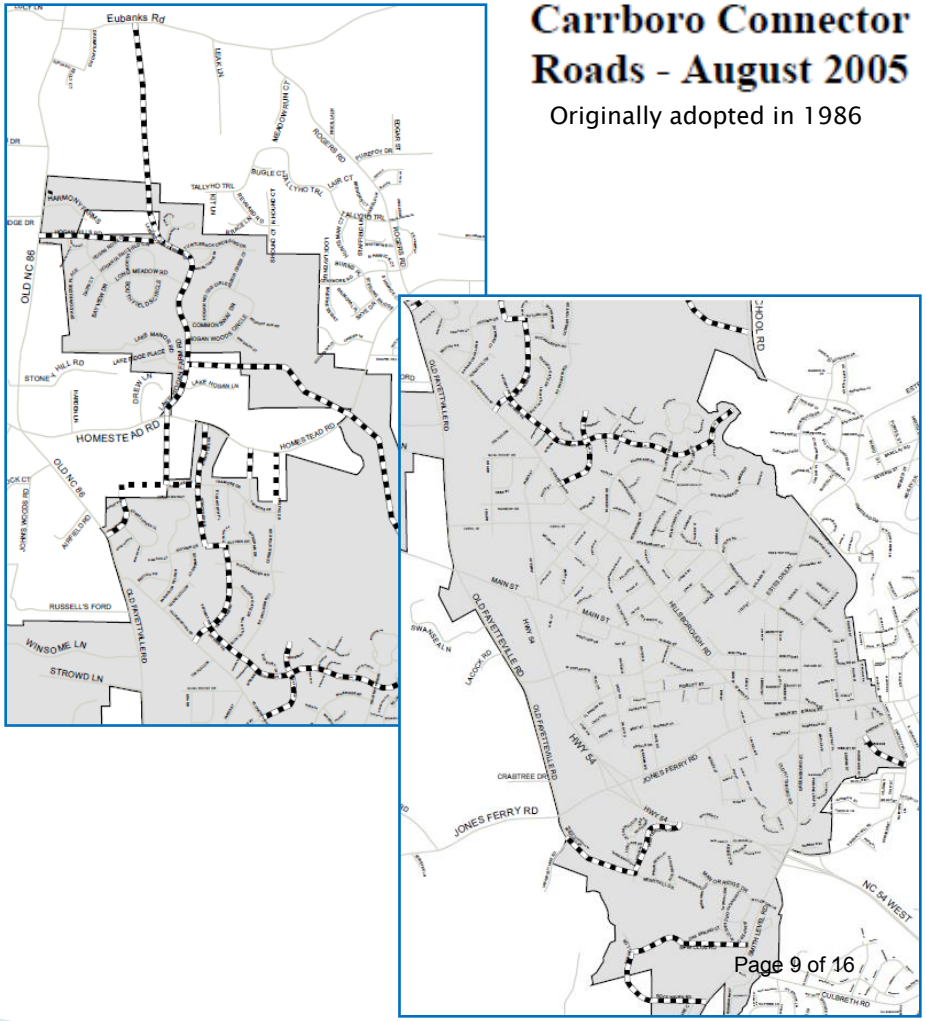
Town of Chapel Hill Street Classification Map

Adopted 2005

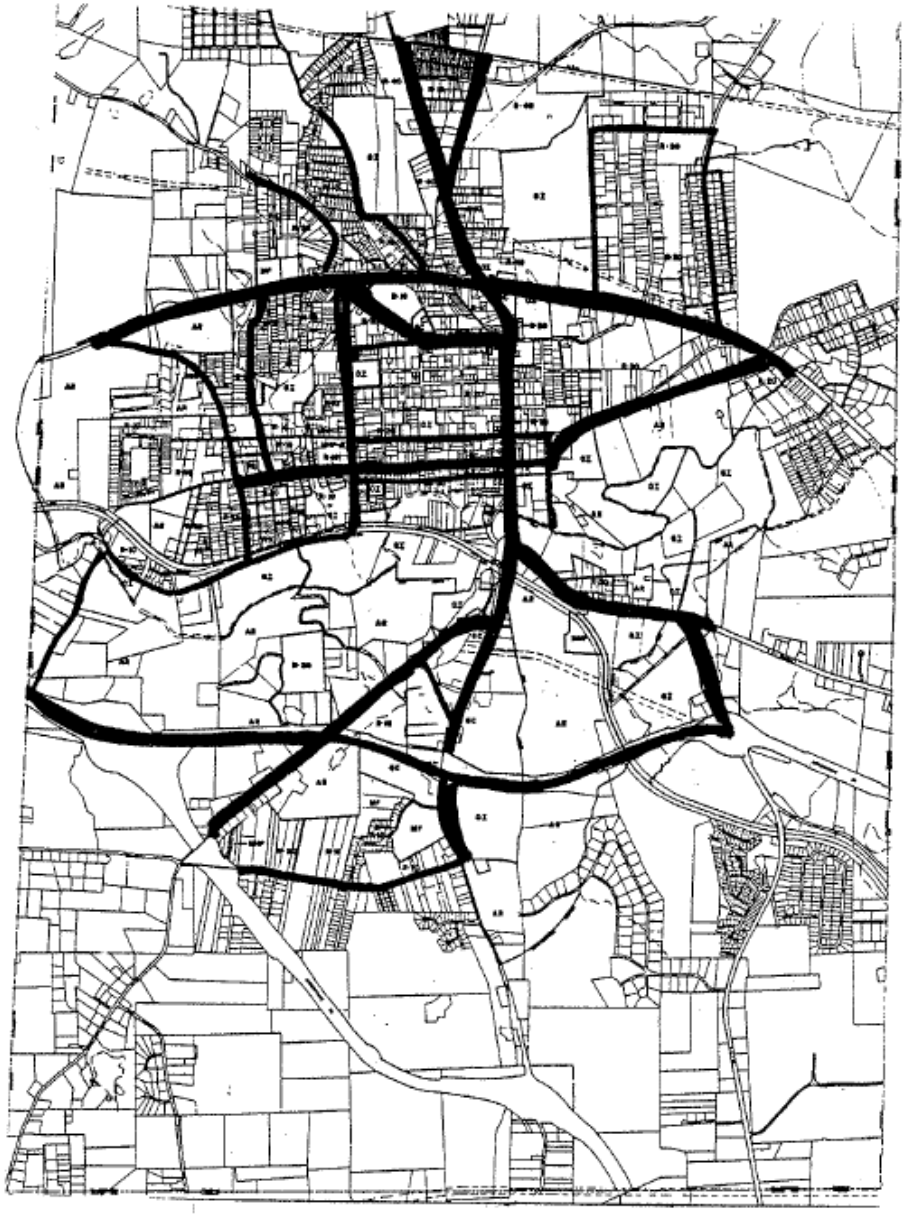


Carrboro Connector Roads - August 2005

Originally adopted in 1986



Collector Street Plans

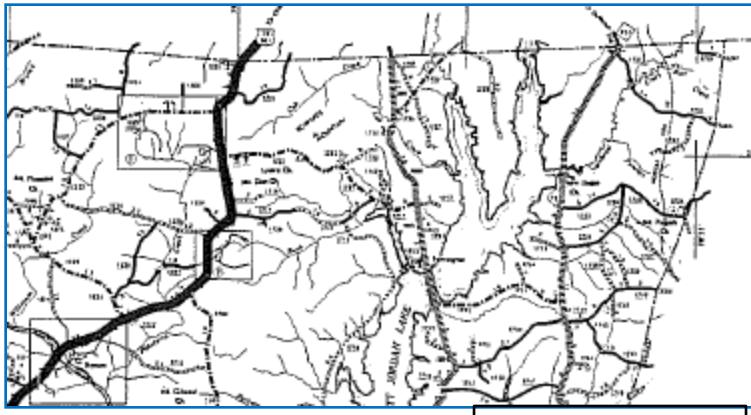


Town of Hillsborough

ROAD CLASSIFICATION SYSTEM*

Adopted 1998

RECOMMENDED
CHATHAM COUNTY
THOROUGHFARE PLAN



Adopted 1983

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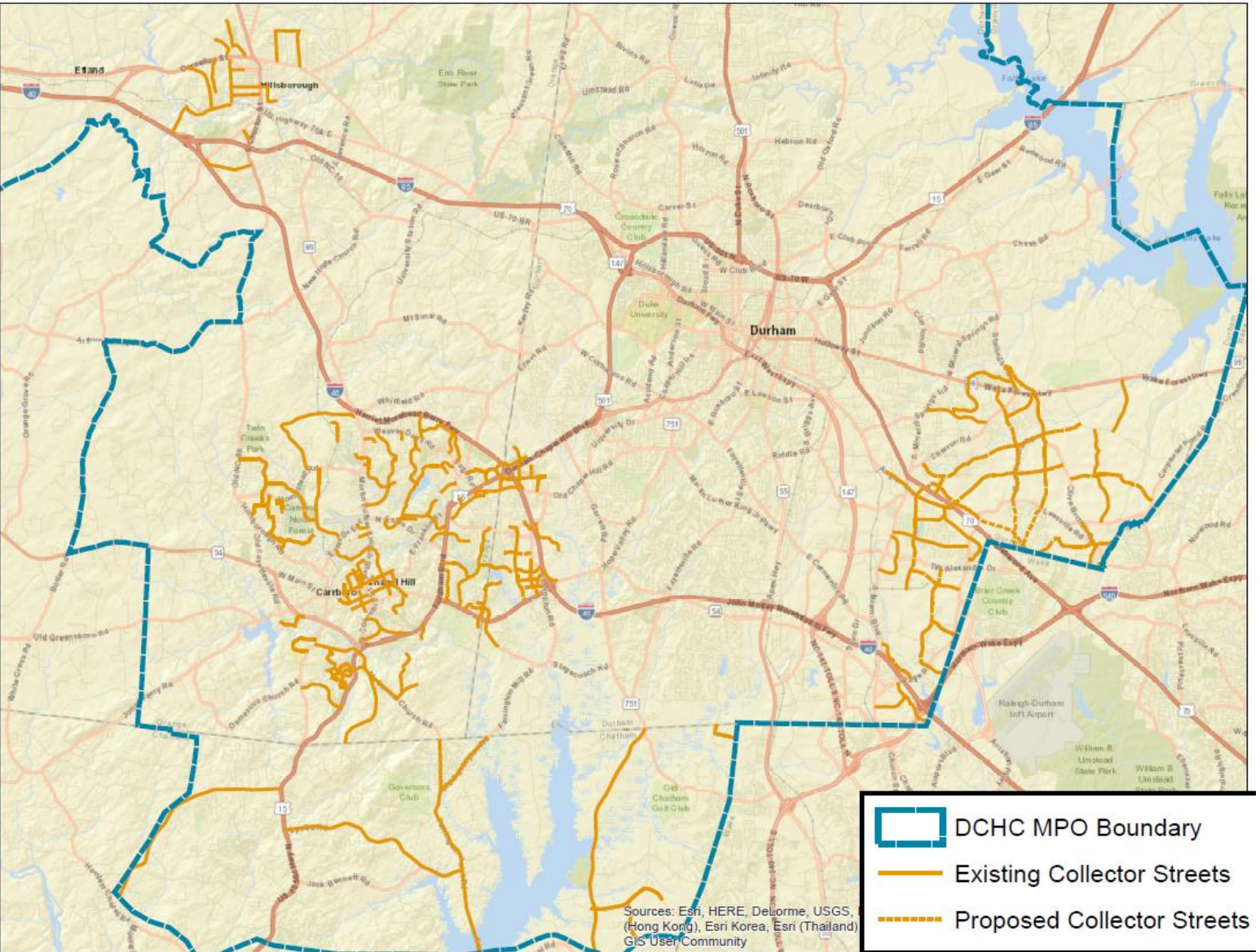
And, when you put all those different collector street plans together, they look like this…



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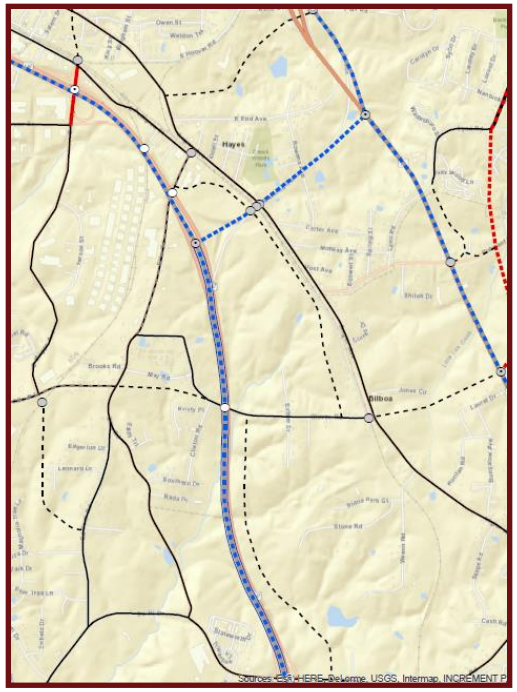
Collector Streets Sneaking into Long-Range Plans

Comprehensive Transportation Plan (CTP)

Adopted June 2017



2045 Metropolitan Transportation Plan (MTP)

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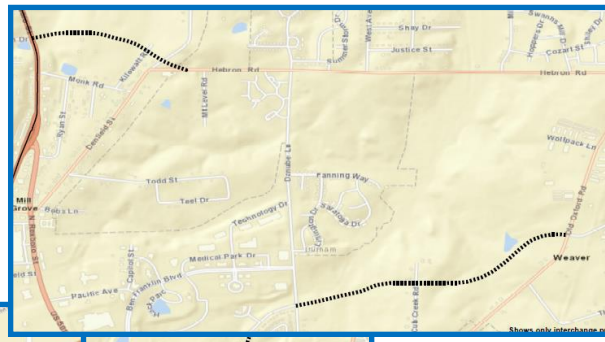

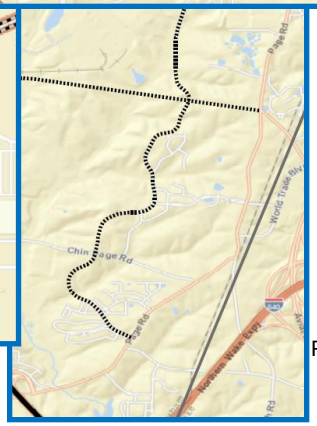

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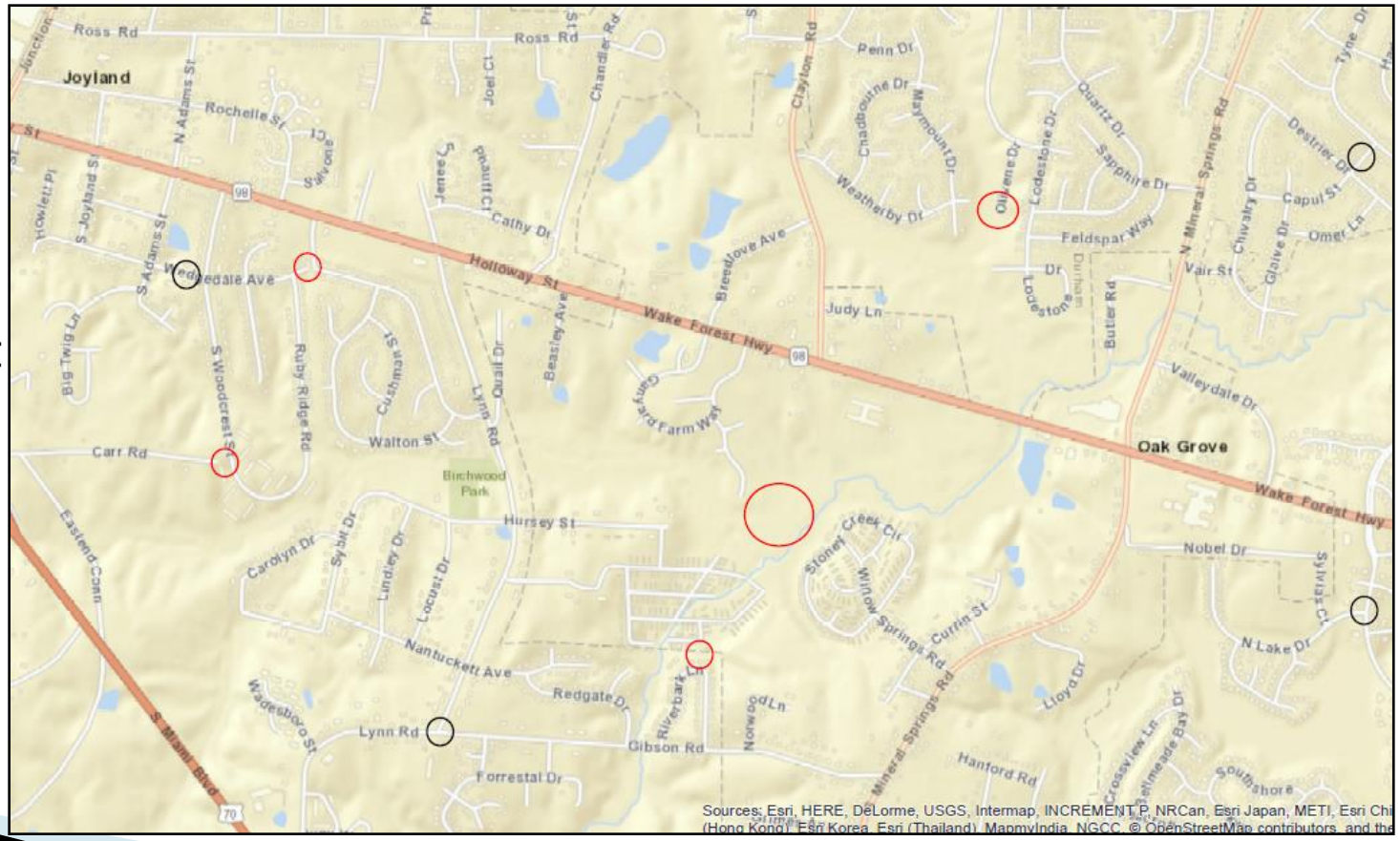
Collector Streets Needed in Corridor Plans

Example of missing connections along NC 98 corridor.

◯ = connection exists

◯ = connection does not exist



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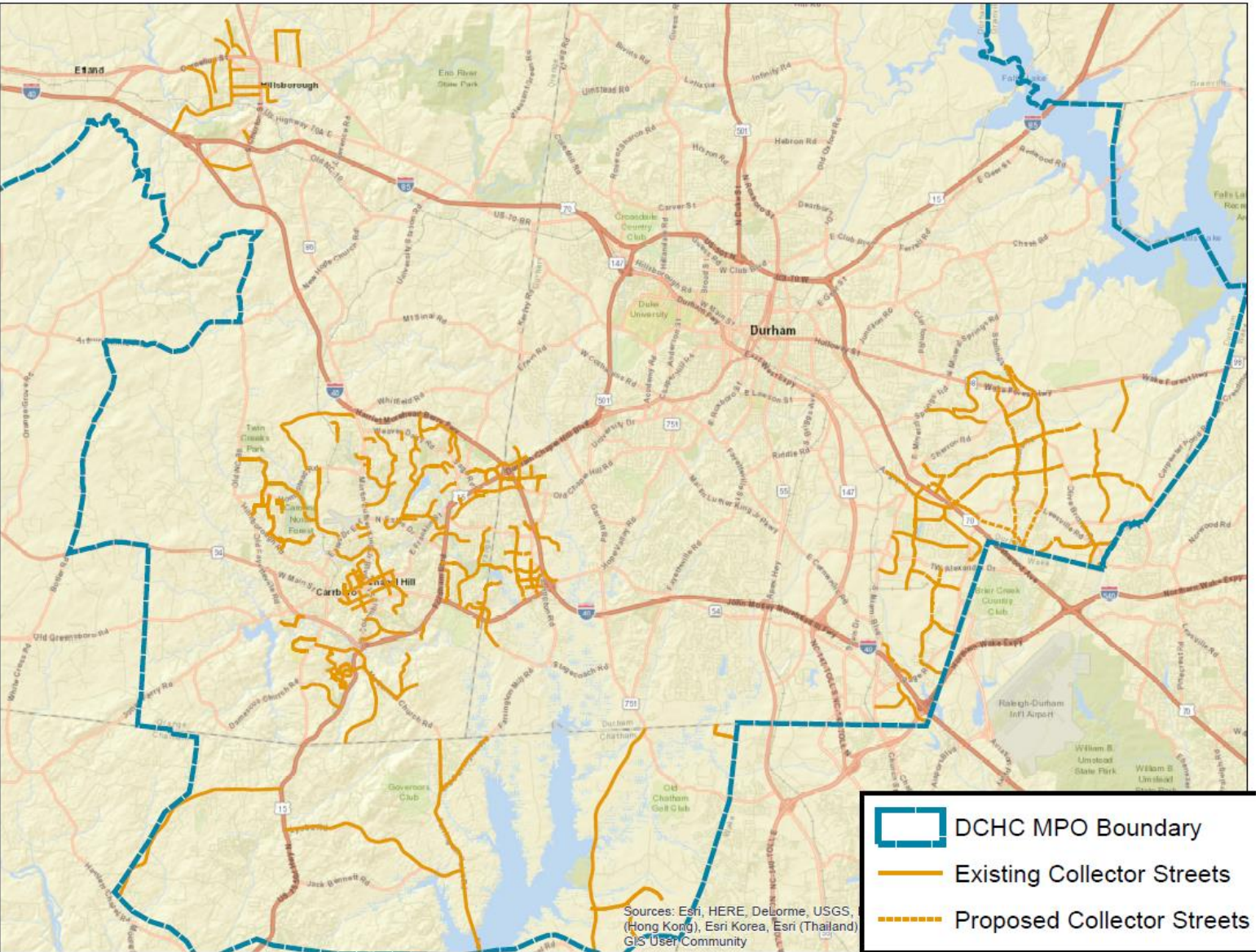

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MPO Collector Street Plan

Purpose

Citizens, the development community, and government staff will use the plan to encourage the construction of a collector street network.

How Used

- Development professionals will know where to include collector streets in their plans for new developments
- Local governments, the NCDOT, elected officials and citizens will use the plan to evaluate submitted development plans

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Issues to Consider

- Local government wants to continue using current collector street plan
  - OK! Can decide to not adopt MPO plan
  - Local and MPO plans can still coordinate

- How collector plan relate to 2045 MTP and CTP?
  - Given road hierarchy in CTP, might be best to relate it to CTP

- Some citizens might not want their street to be a designated collector or want the connectivity
  - Educate and communicate purpose, need and vision of collector streets