



LAKE NORMAN REGIONAL BICYCLE PLAN SIGNAGE PLAN



M1-8a





Lake Norman Regional Bicycle Route Signage Methodology

The first step of implementing the Lake Norman Regional Bicycle Route (Route) is to install signage along segments of the Initial Route for which no additional improvements are needed. This route totals 62 miles of on-road and non-road segments, and includes roads maintained by municipalities and by the North Carolina Department of Transportation (NCDOT). The NCDOT's Division of Bicycle and Pedestrian Transportation (DBPT) has agreed to pay for the construction of all signs necessary for the initial installation, as well as necessary hardware purchases.

Types of Signs: There are six types of signs used on the Initial Route.

- Route Sign (MUTCD M1-8a) to be installed at all Route intersections.
- Share the Road Sign (MUTCD W16-1P or W16-1 with W11-1) to be installed at specified locations
- Route End Sign (MUTCD M4-6) to be installed at specified locations
- Route Right/Left Sign (MUTCD M6-1) to be installed at specified intersections
- Route Ahead Sign (MUTCD M6-3) to be installed at specified intersections
- Route Left and Right Sign (MUTCD M6-4) to be installed at specified intersections



M6-4



M4-6



M1-8a



W11-1 / W16-1



M6-1



M6-3



Municipal responsibility: The DBPT has asked all five affected municipalities (Cornelius, Davidson, Huntersville, Mooresville, and Troutman) to install NCDOT-provided route signage on municipally-maintained roads found on the Initial Route. The five municipalities have agreed to install the signage for the Initial Route on roads they maintain, and the NCDOT has agreed to provide additional signs as spares.

Signing Location Principles: The Initial Route is found on several dozen roads in three counties in the Lake Norman area. The following sign installation principles were followed:

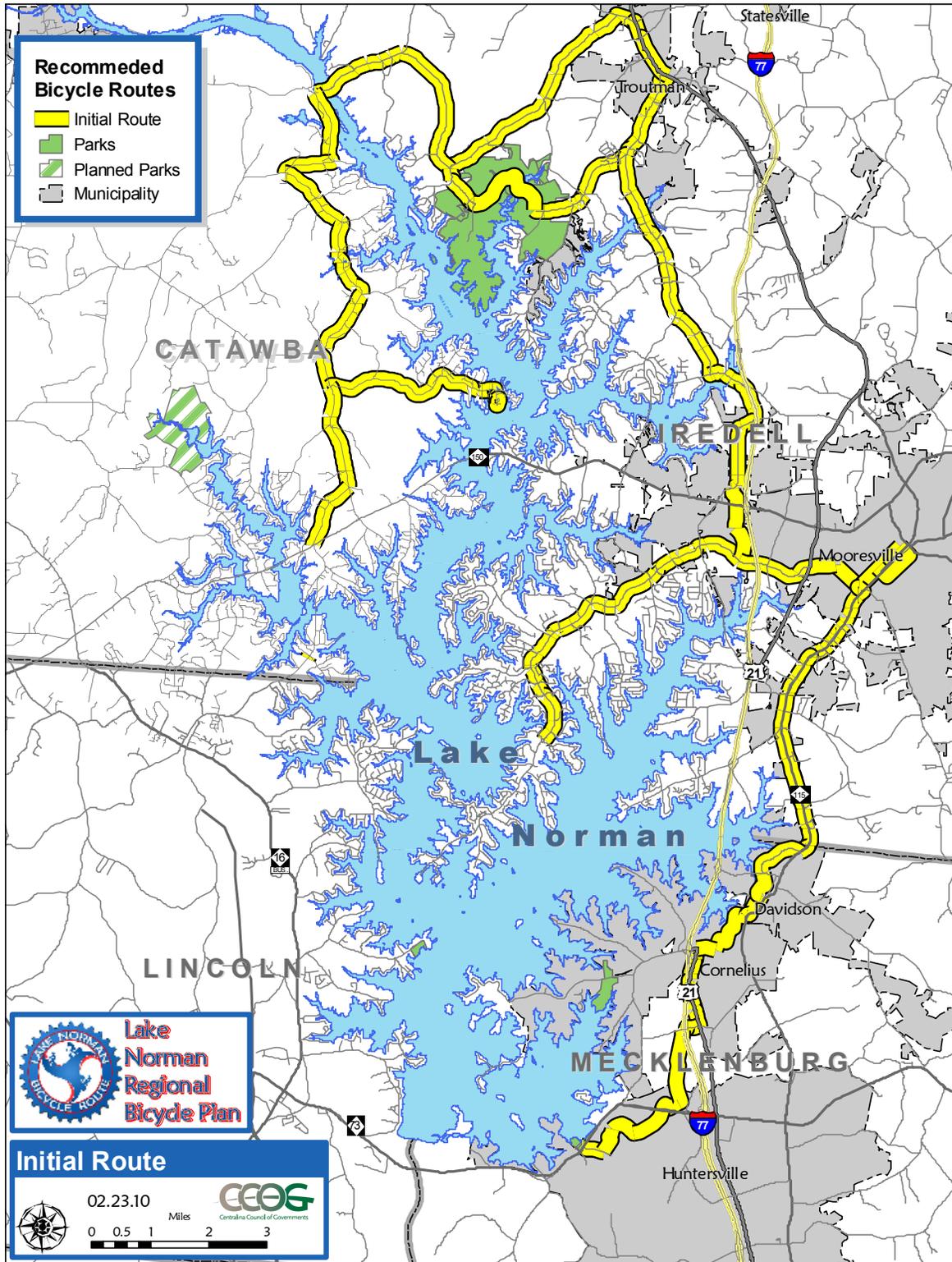
- All intersections where the Initial Route makes a turn (50 locations)
- All major intersections where the Initial Route goes straight through the intersection (six locations)
- Where the Initial Route dead ends (four locations)

The vast majority of signs will be installed at intersections, typically for both approaching directions. These signs would be located between 50-100 feet of an intersection, facing the direction of traffic. A sample intersection treatment is shown in Figure 5. Co-locating signs is recommended where more than one sign is required at an intersection.

The sign heights and setbacks shall comply with standard guidelines followed by the NCDOT for installing such signage.

Sign Construction and Cost: The DBPT will order and pay for the route signage and all associated hardware necessary to install the signs. The NCDOT State Signing and Delineation Engineer has approved the use of the logo (below) on M1-8a and “LN” designation for the entire route.





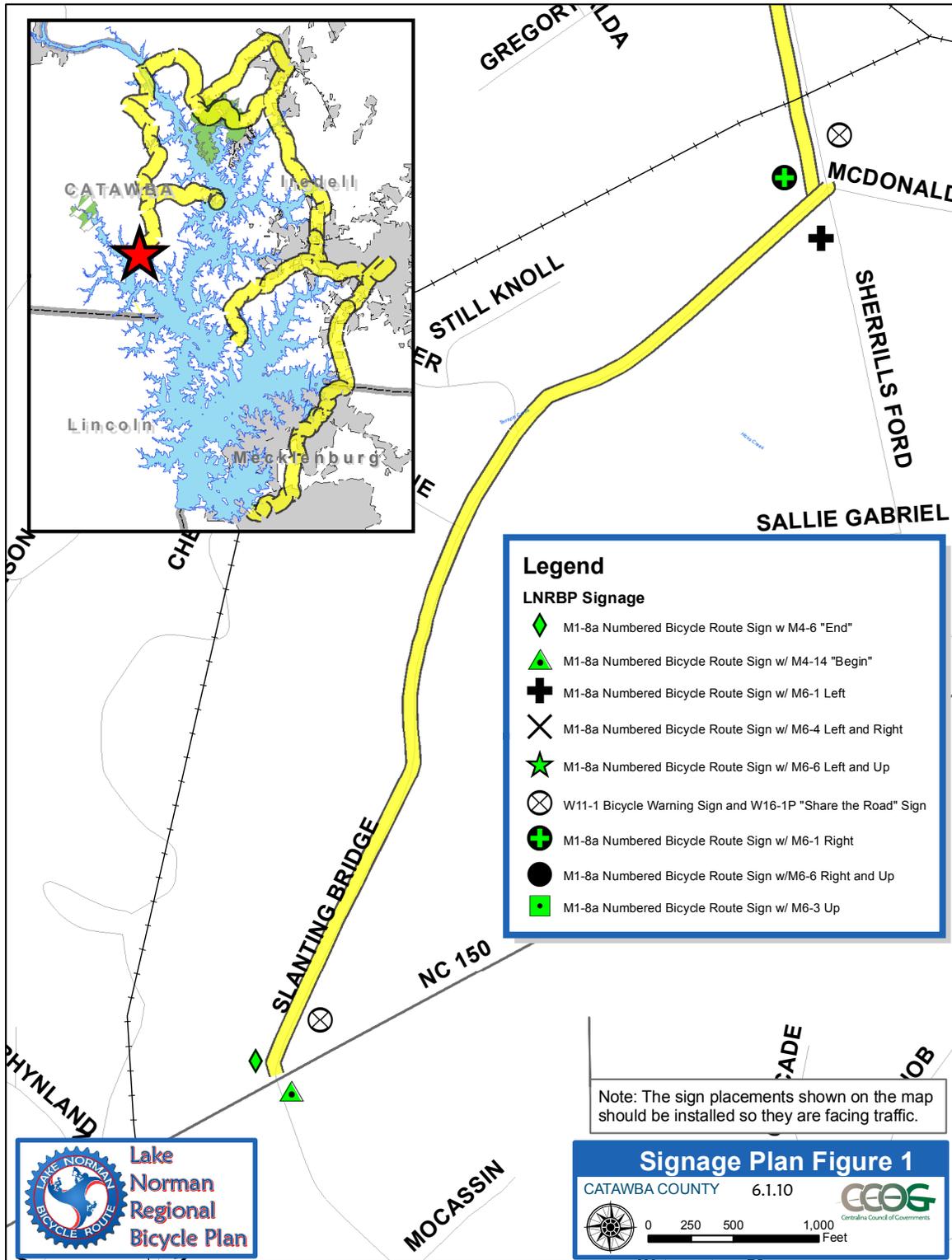


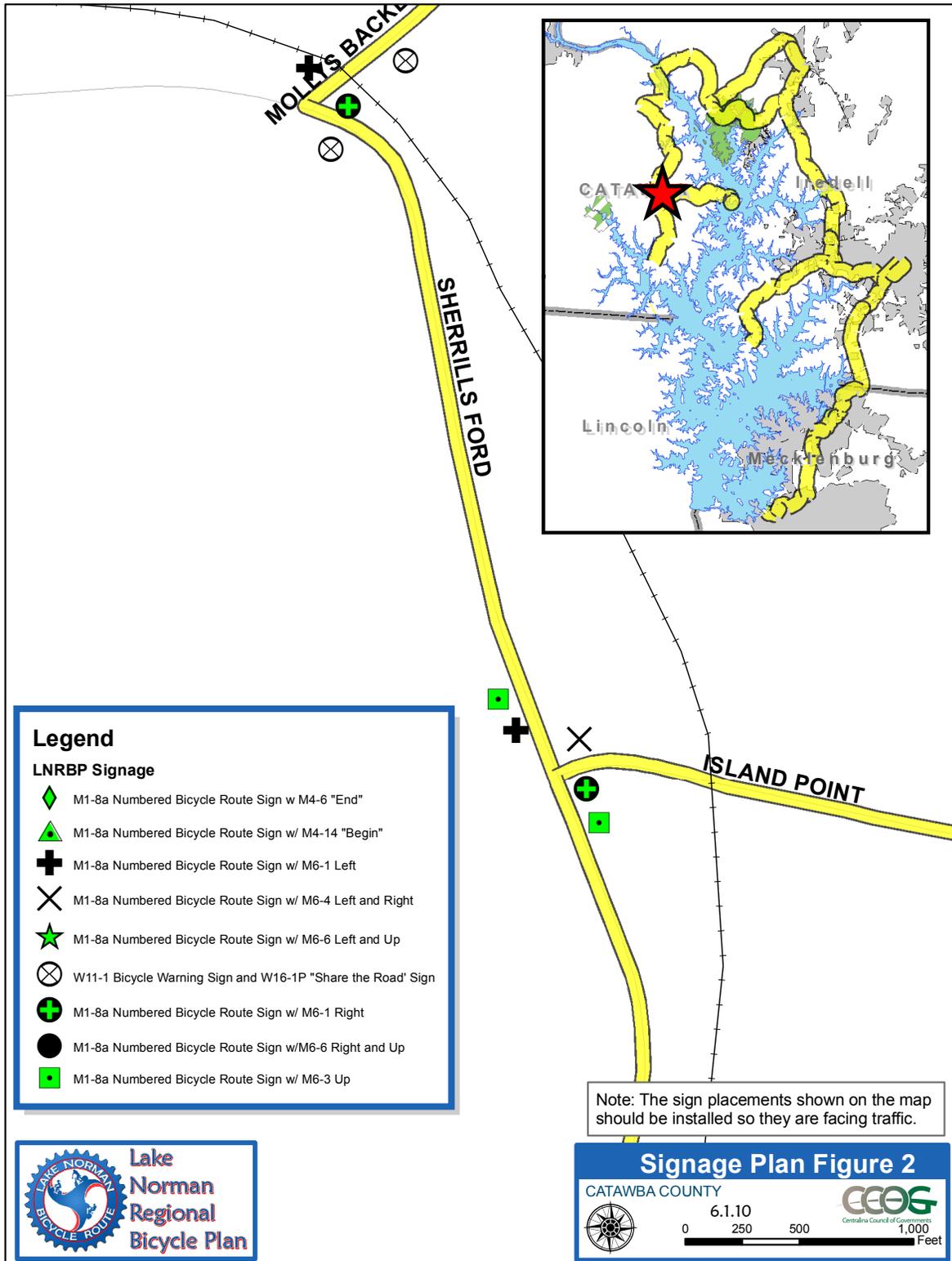
Catawba County

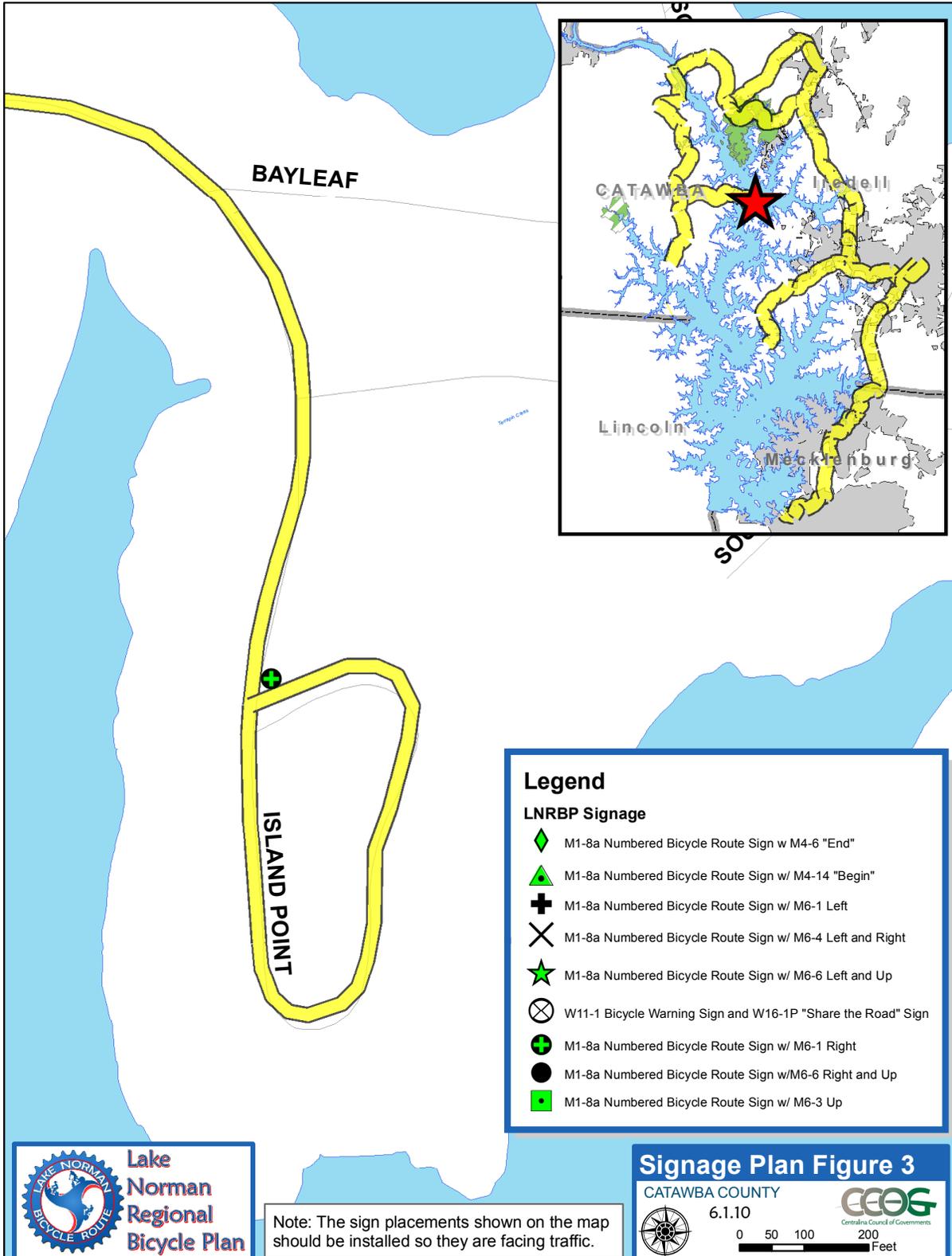
There are no municipalities in Catawba County affected by the Route. The NCDOT is therefore responsible for installing all signage identified in this document. There are a total of 18 sign installation locations along the Initial Route in Catawba County.

Seven vicinity maps depict the signage installations in Catawba County. They include:

1. Slanting Bridge and NC 150
2. Mollys Backbone and Island Point
3. End of Island Point
4. Monbo and Mollys Backbone
5. Monbo, Long Island and Kale
6. Hudson Chapel





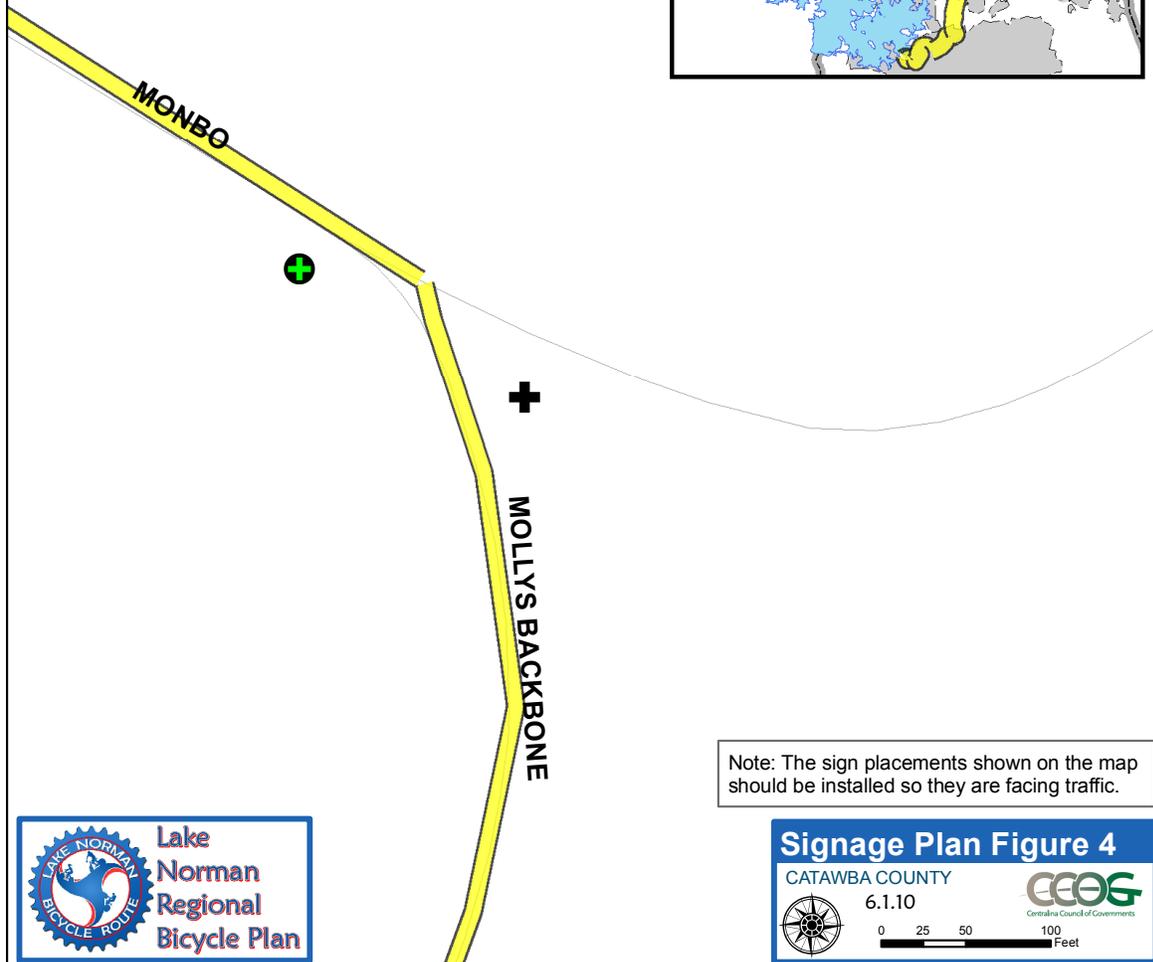
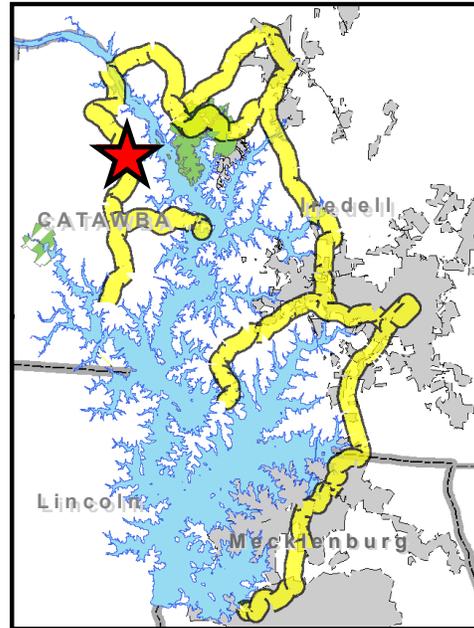




Legend

LNRBP Signage

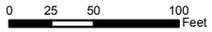
-  M1-8a Numbered Bicycle Route Sign w M4-6 "End"
-  M1-8a Numbered Bicycle Route Sign w/ M4-14 "Begin"
-  M1-8a Numbered Bicycle Route Sign w/ M6-1 Left
-  M1-8a Numbered Bicycle Route Sign w/ M6-4 Left and Right
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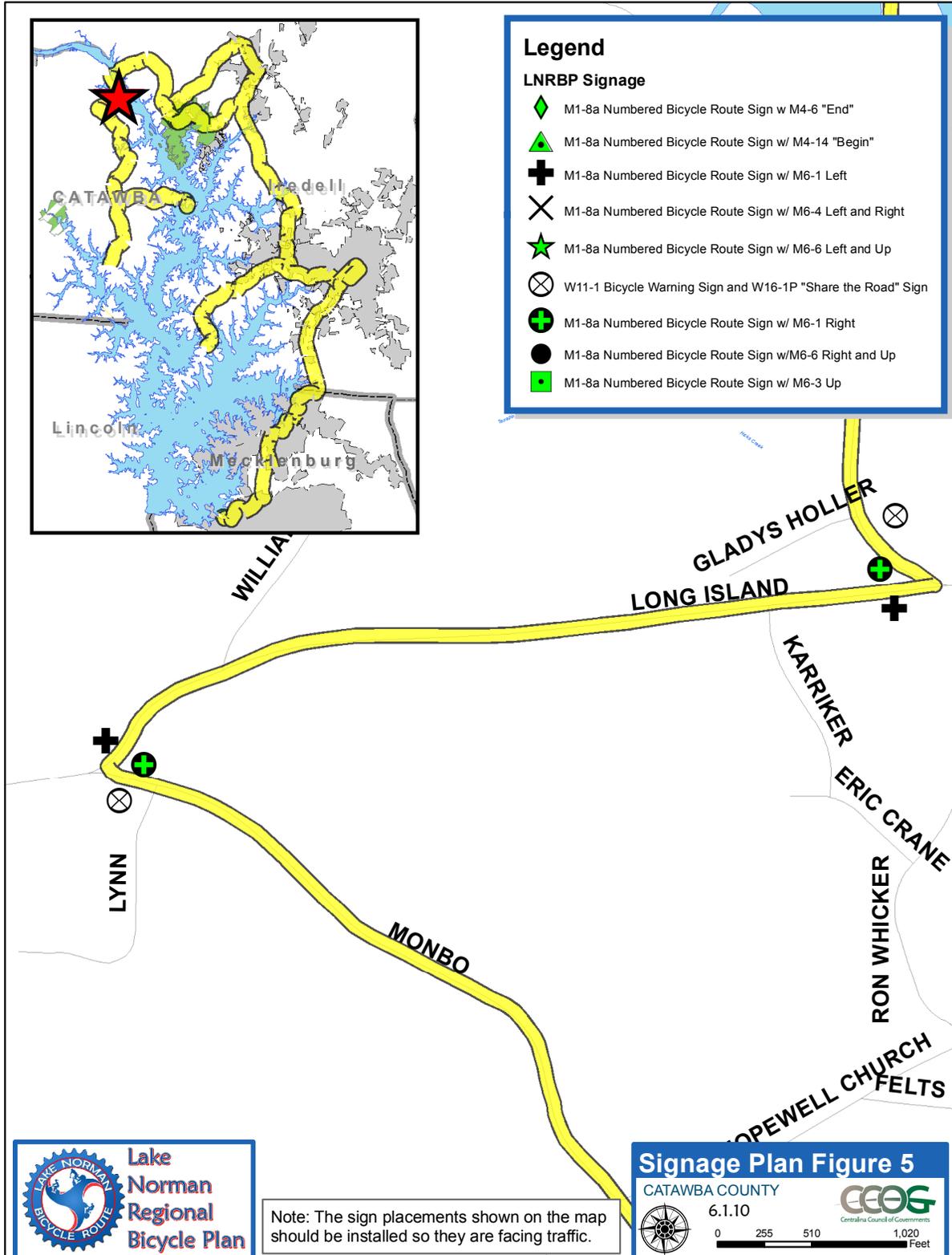


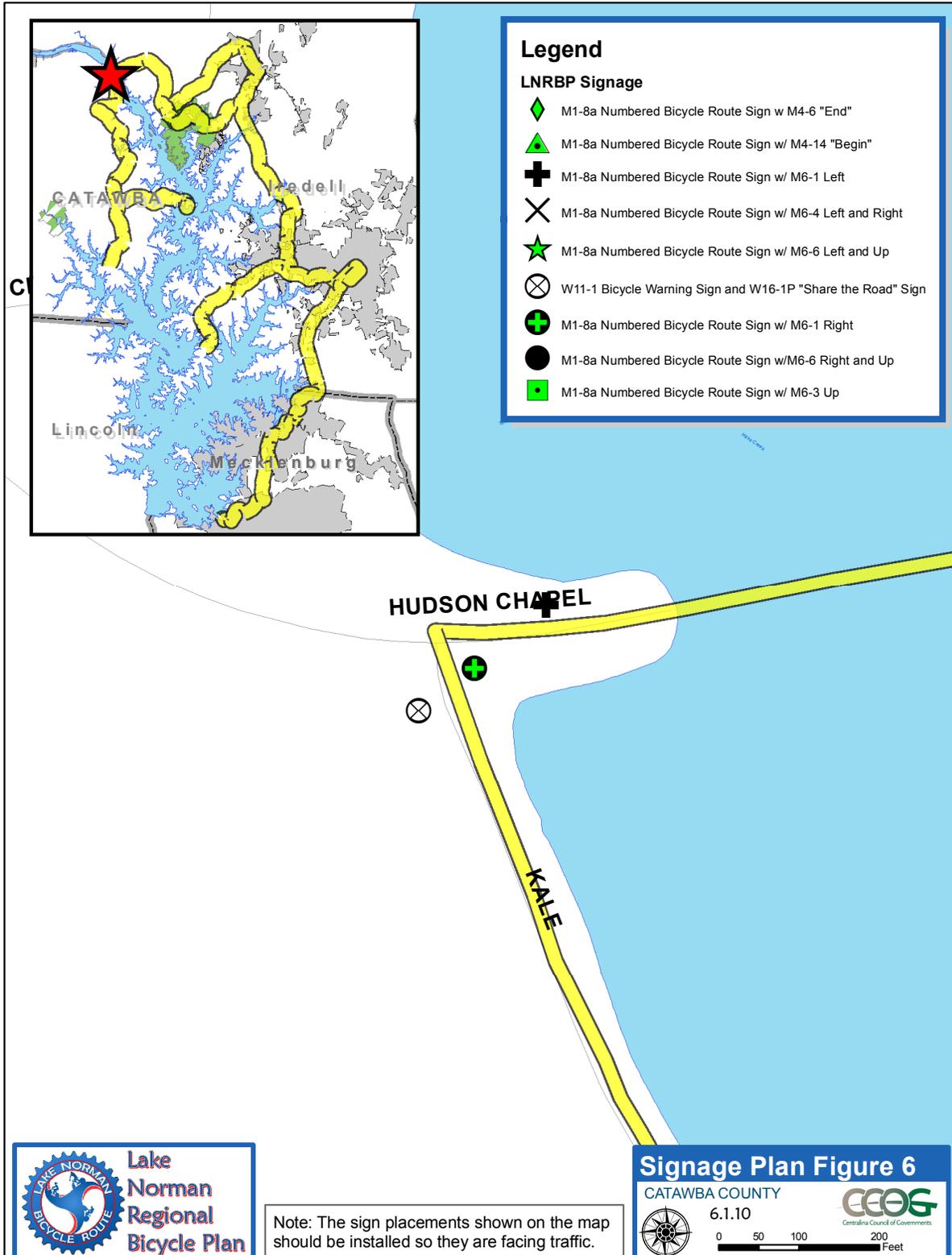
Note: The sign placements shown on the map should be installed so they are facing traffic.



Signage Plan Figure 4
 CATAWBA COUNTY
 6.1.10





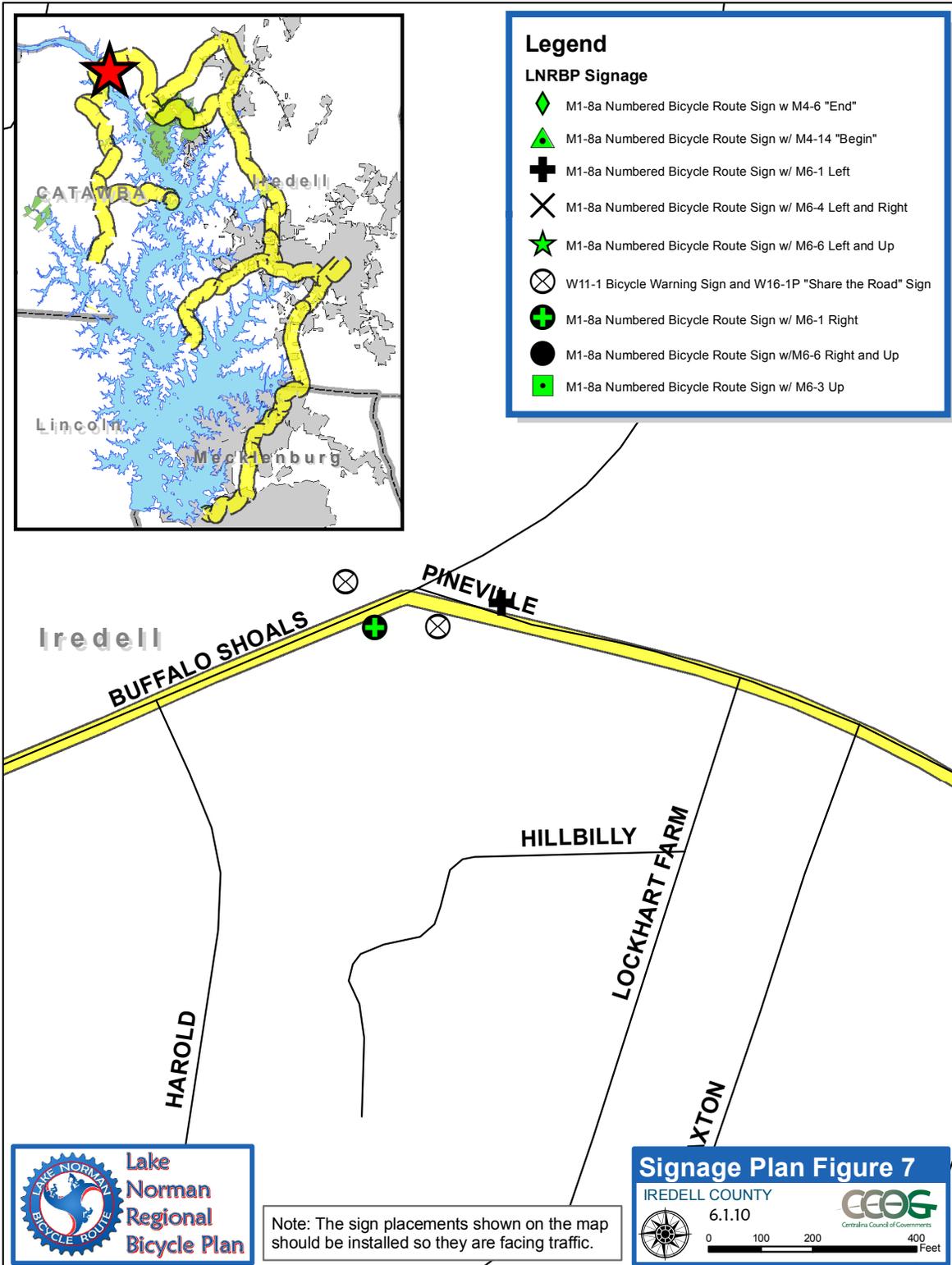


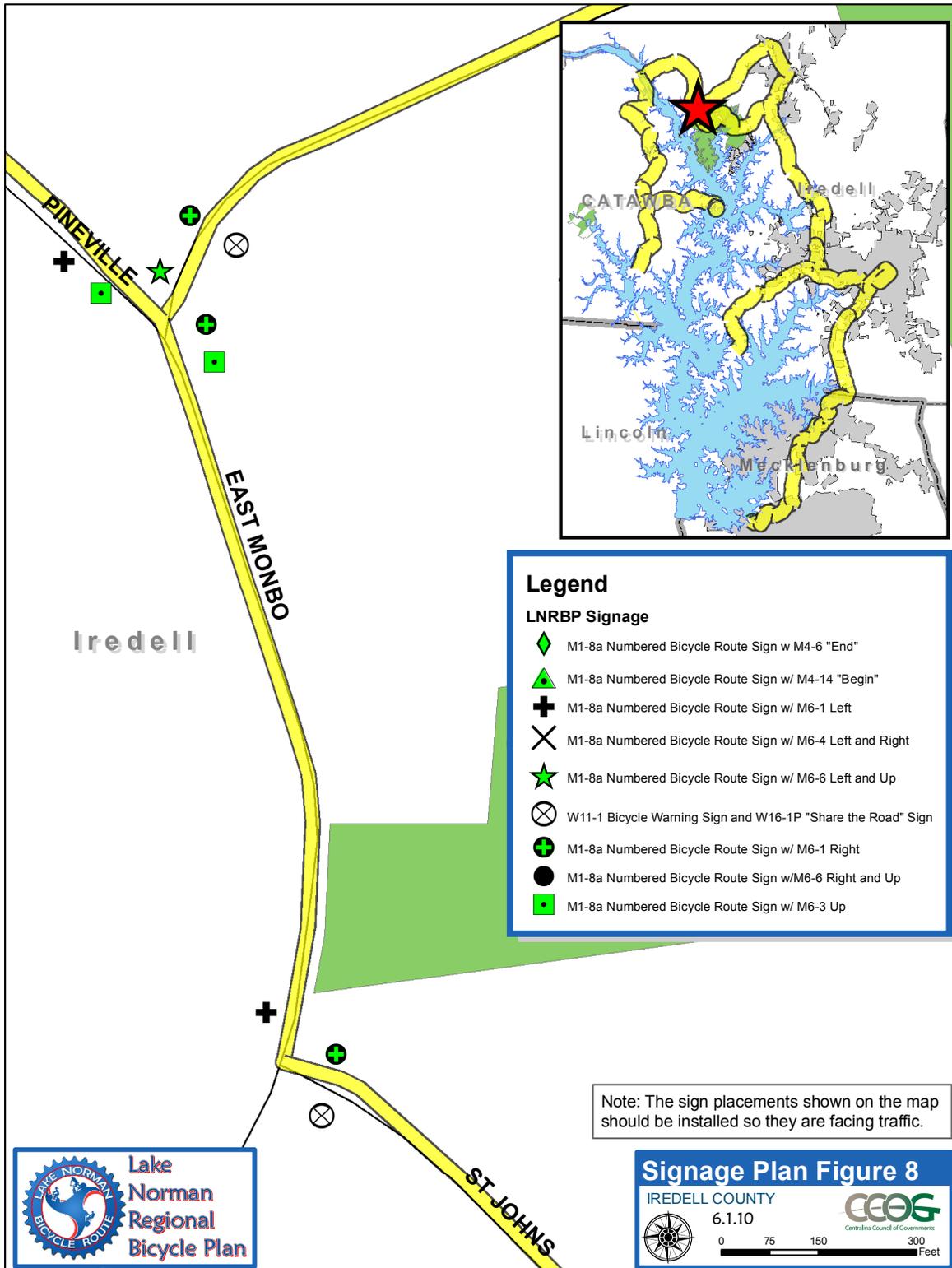
Iredell County

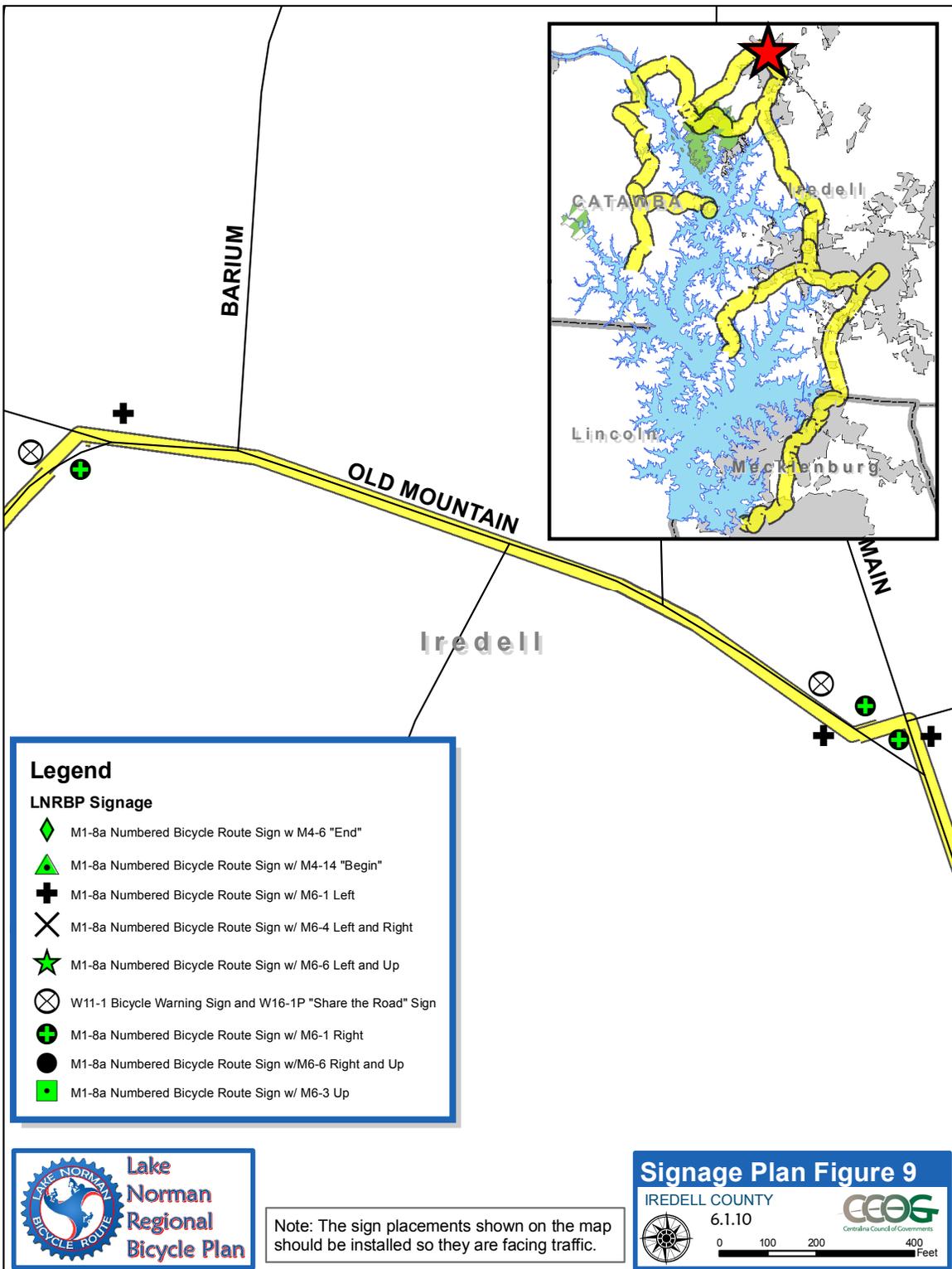
Iredell is the most complex county out of the three affected by the signing of the Initial Route. This is due to the sheer number of signs as well as the number of signs to be installed by Mooresville and Troutman. There are 80 total sign installation locations, with six being the responsibility of Troutman and 27 the responsibility of Mooresville, leaving 47 total sign installation locations for the NCDOT.

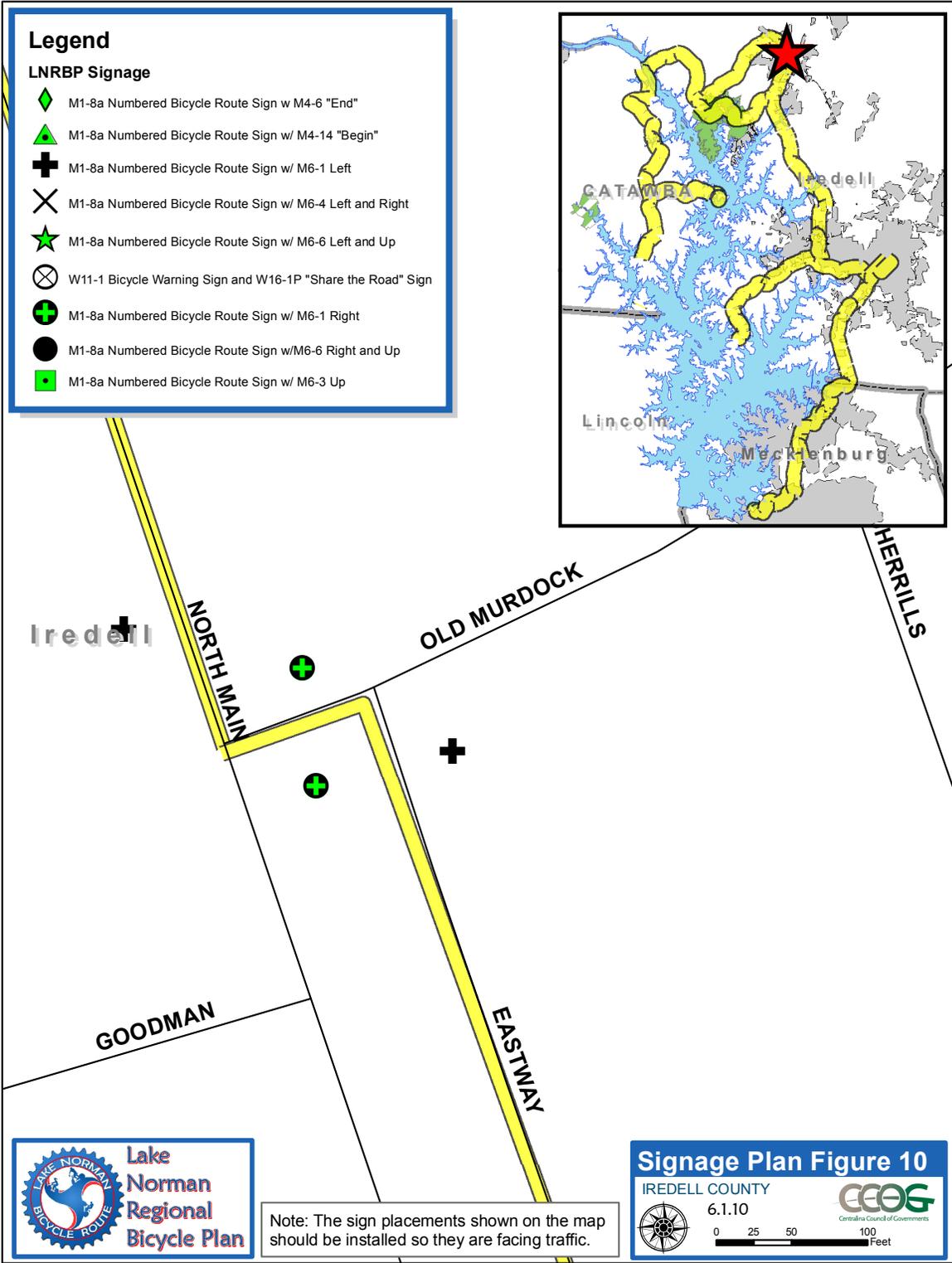
A total of 14 vicinity maps show the locations of sign installations in Iredell County. They include:

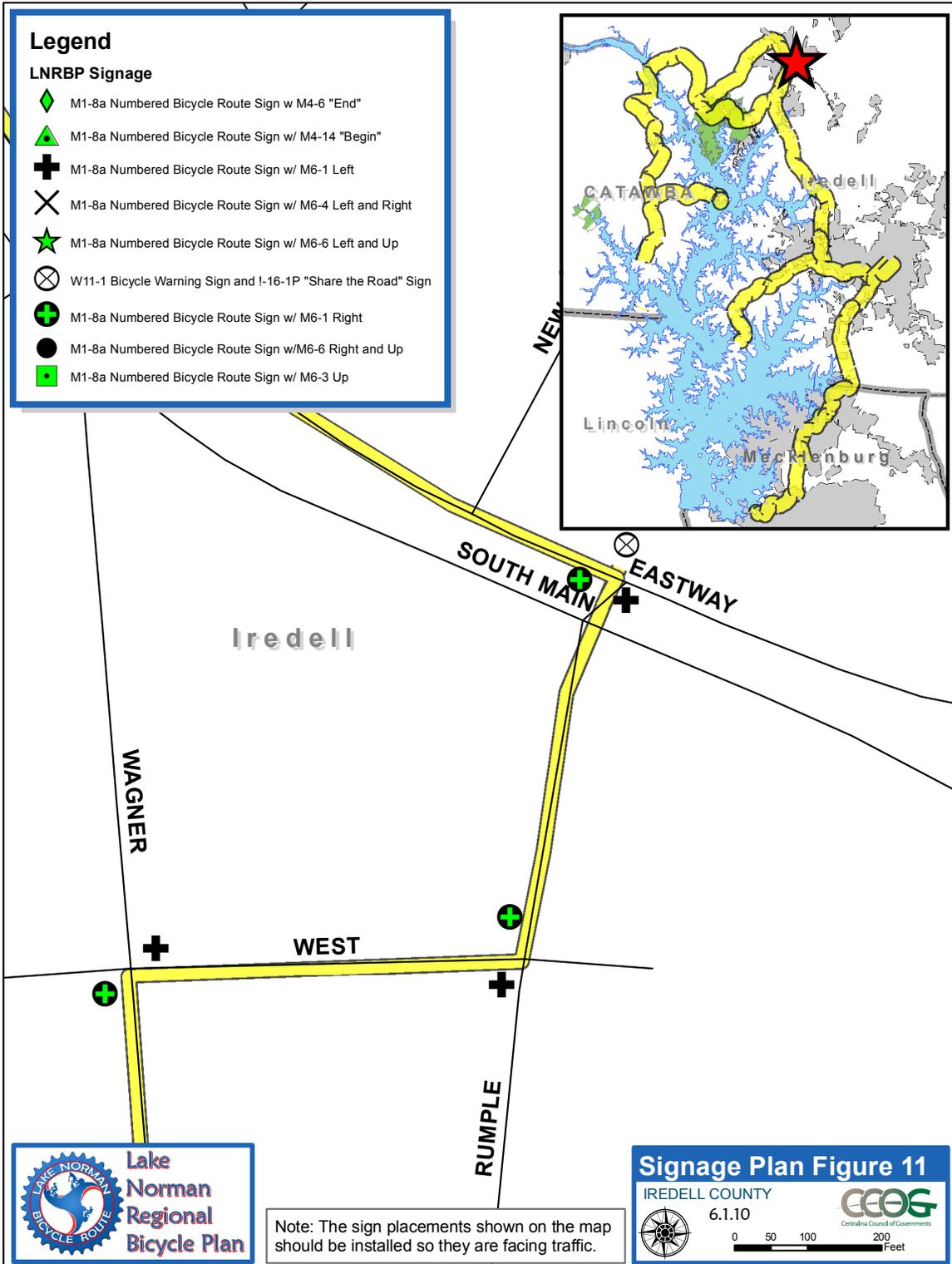
7. Pineville and Buffalo Shoals
8. Pineville, East Monbo and St. Johns
9. Old Mountain and North Main
10. Old Murdock
11. Wagner, West, Rumble and Eastway
12. State Park and Perth
13. State Park and St. Johns
14. Perth, Judas, Cornelius and Bluefield
15. Bluefield, Regency Center and Midnight
16. Brawley School Road and Rolling Hills
17. Brawley School Road and The Point
18. Wilson, Golf Course and Lowrence
19. Broad and South Main
20. Downtown Mooresville

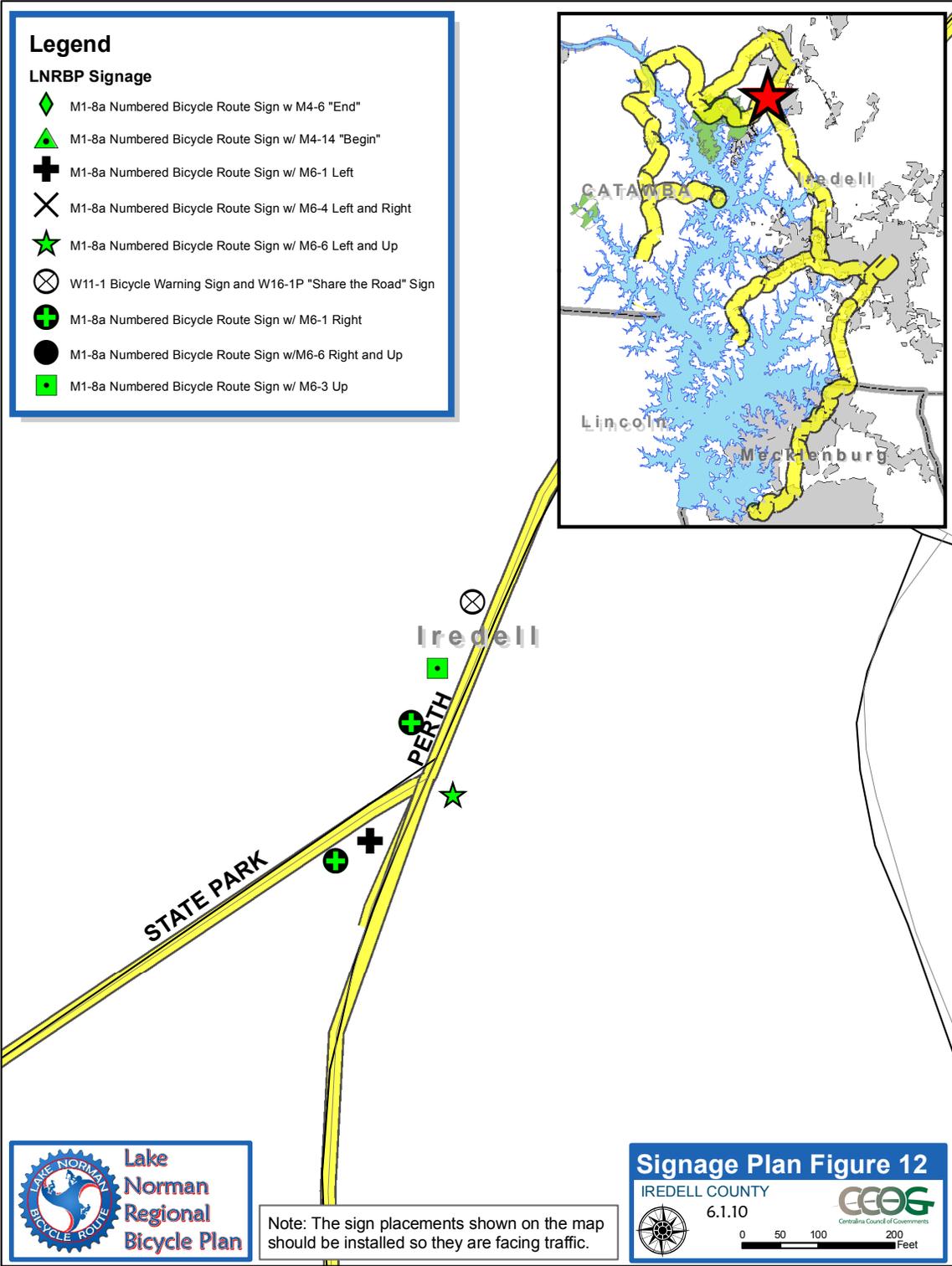










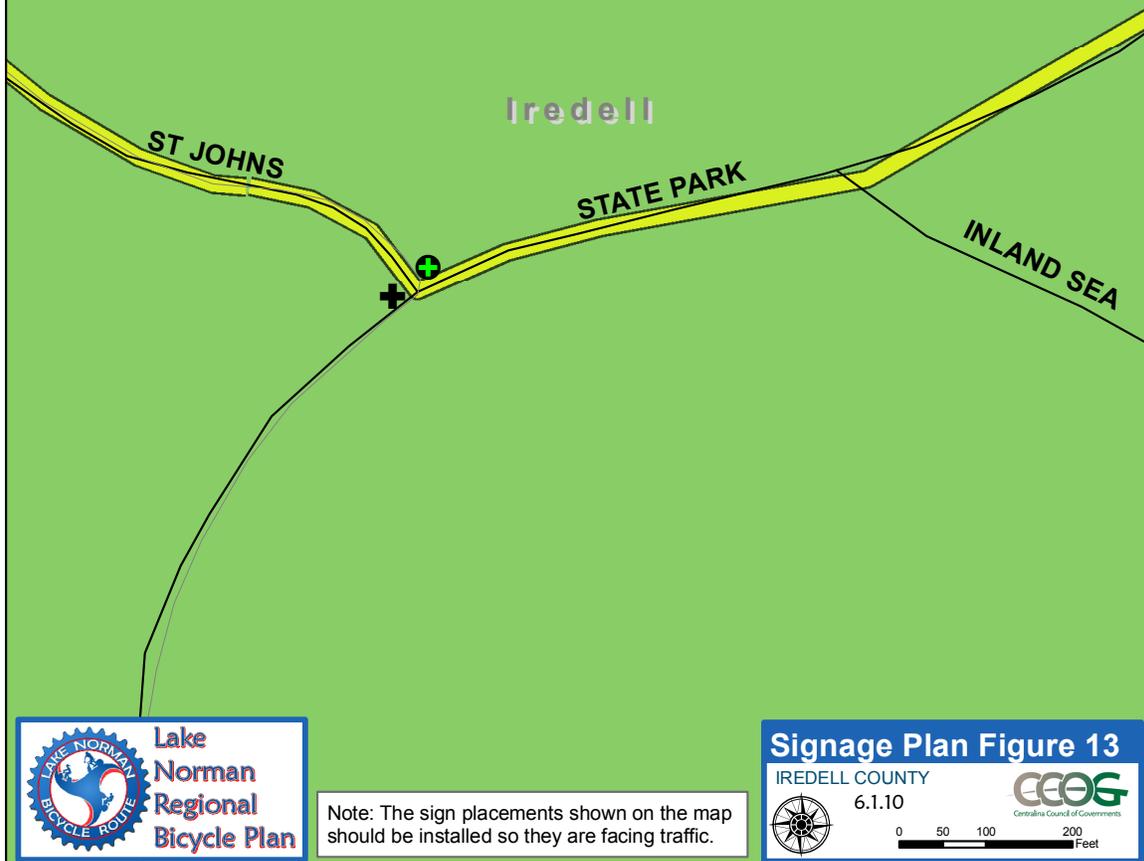
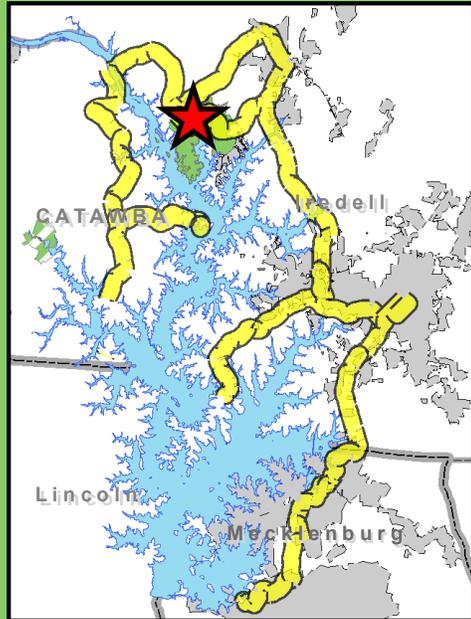


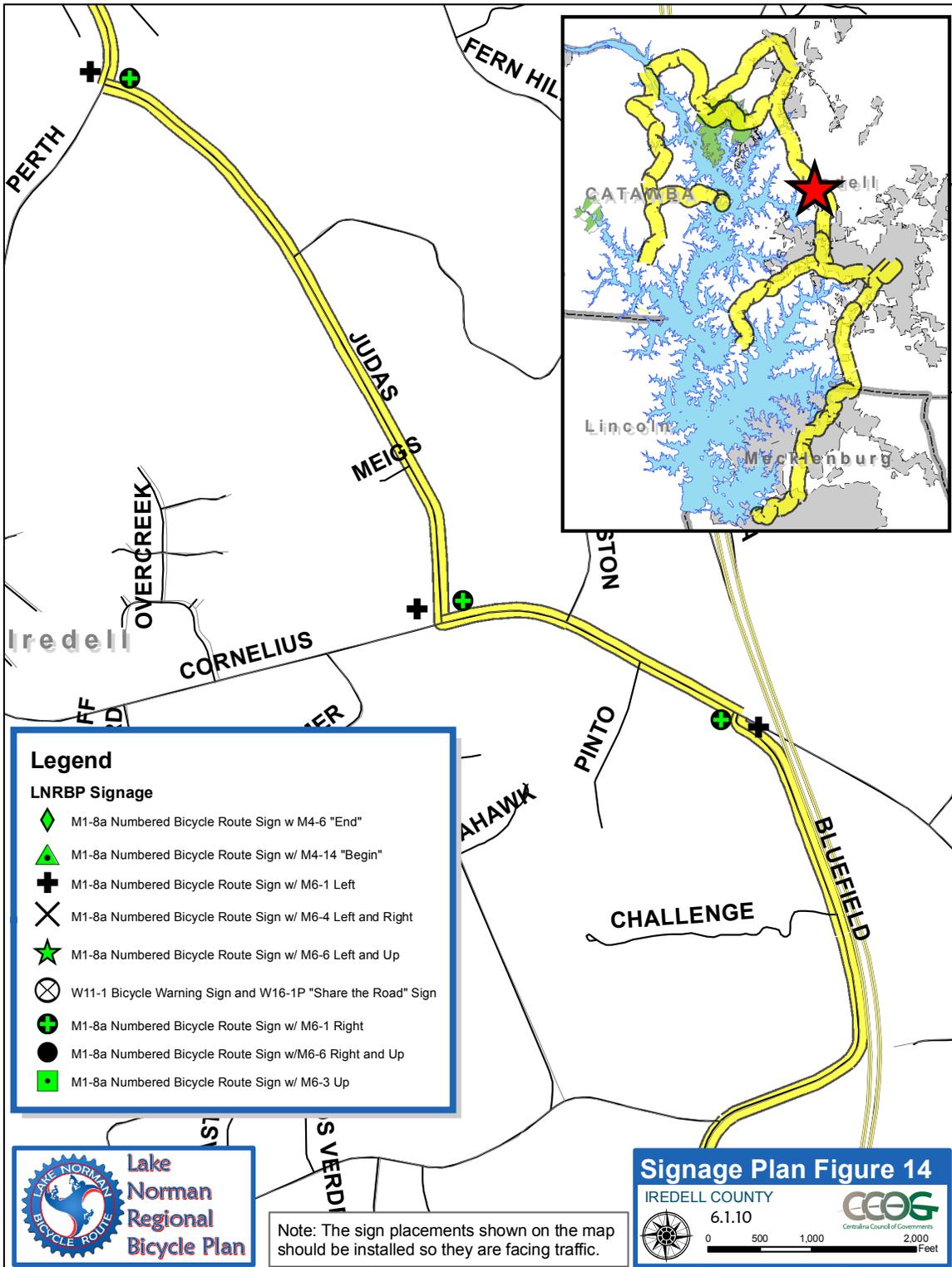


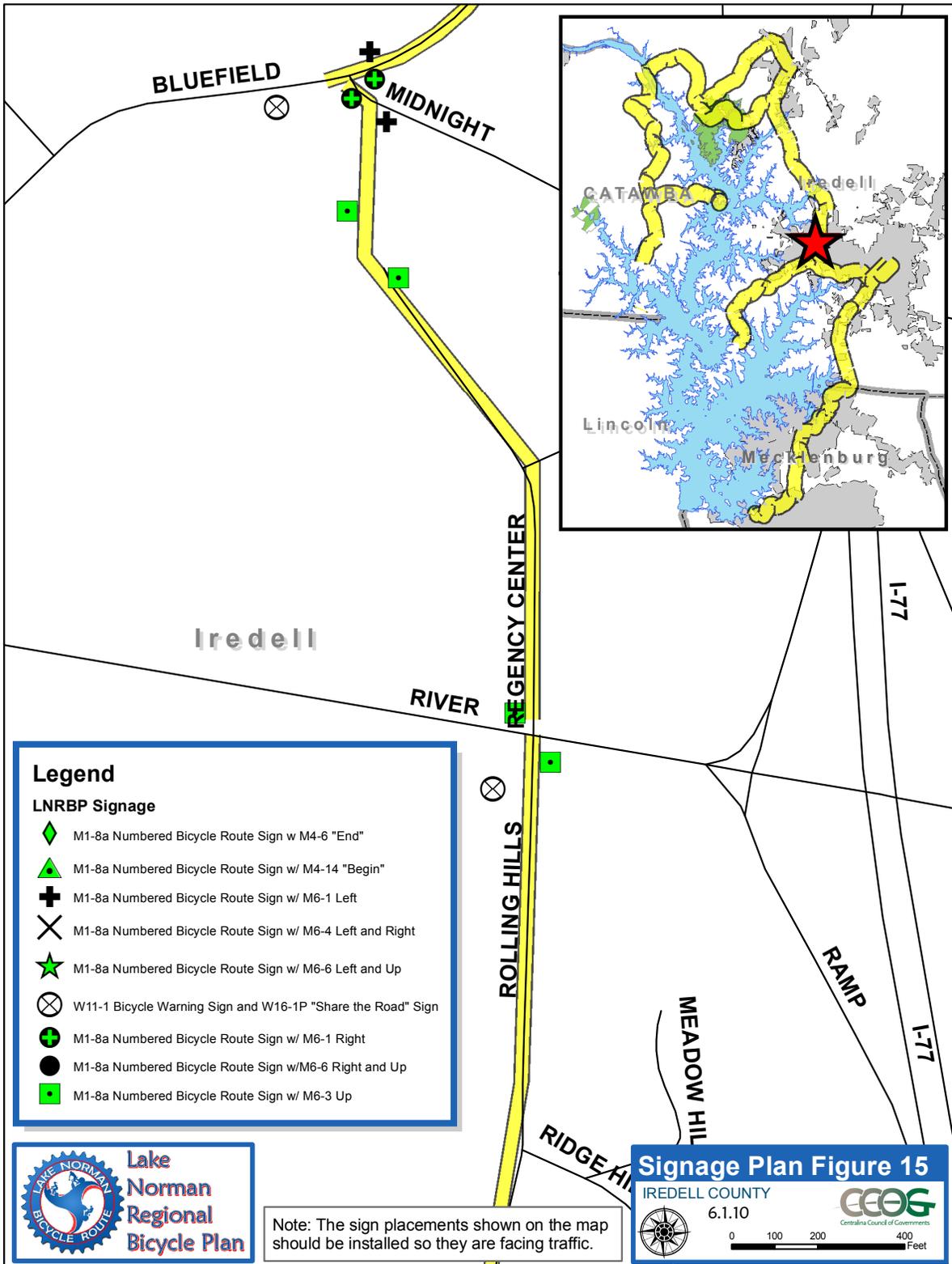
Legend

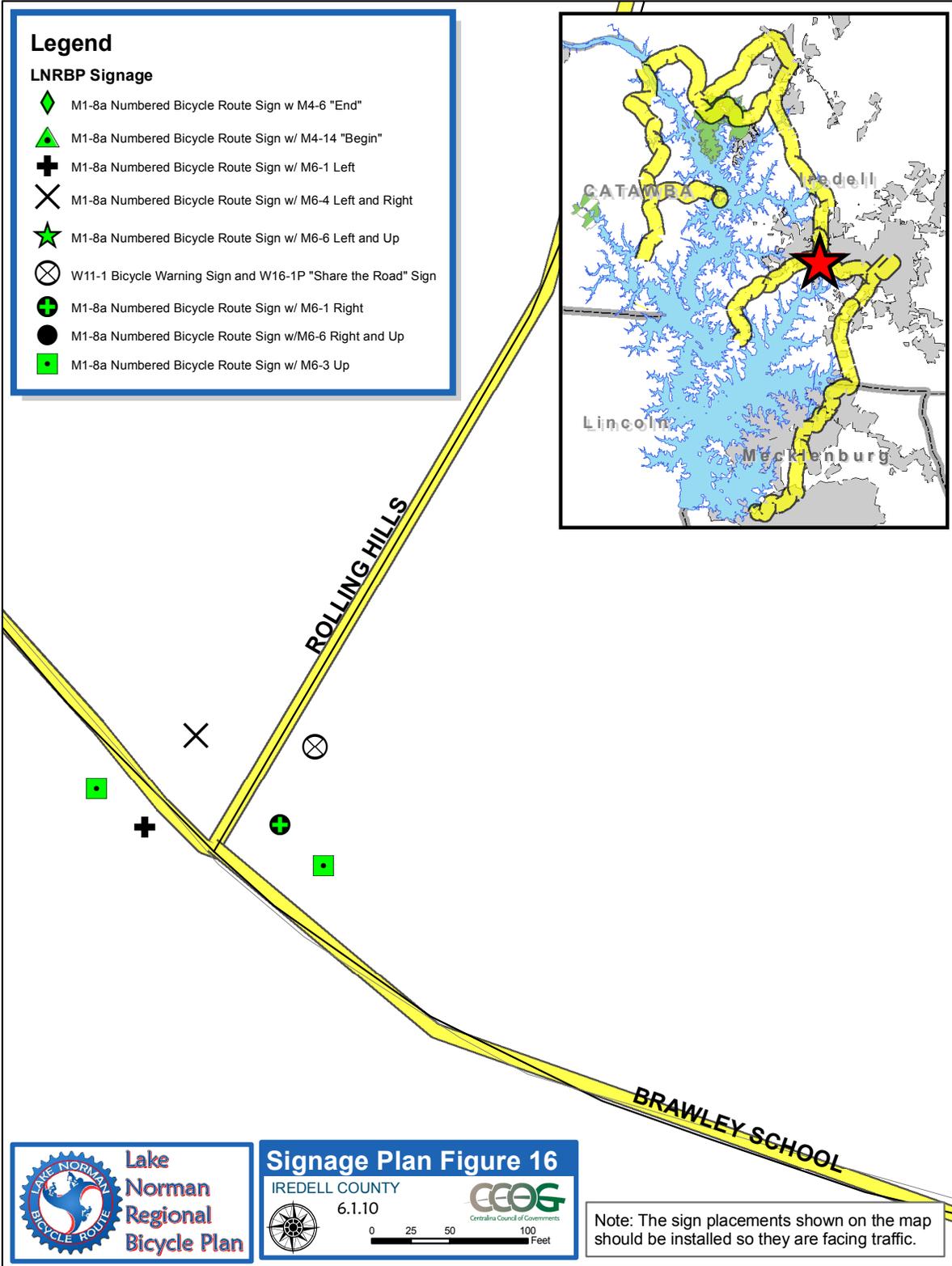
LNRBP Signage

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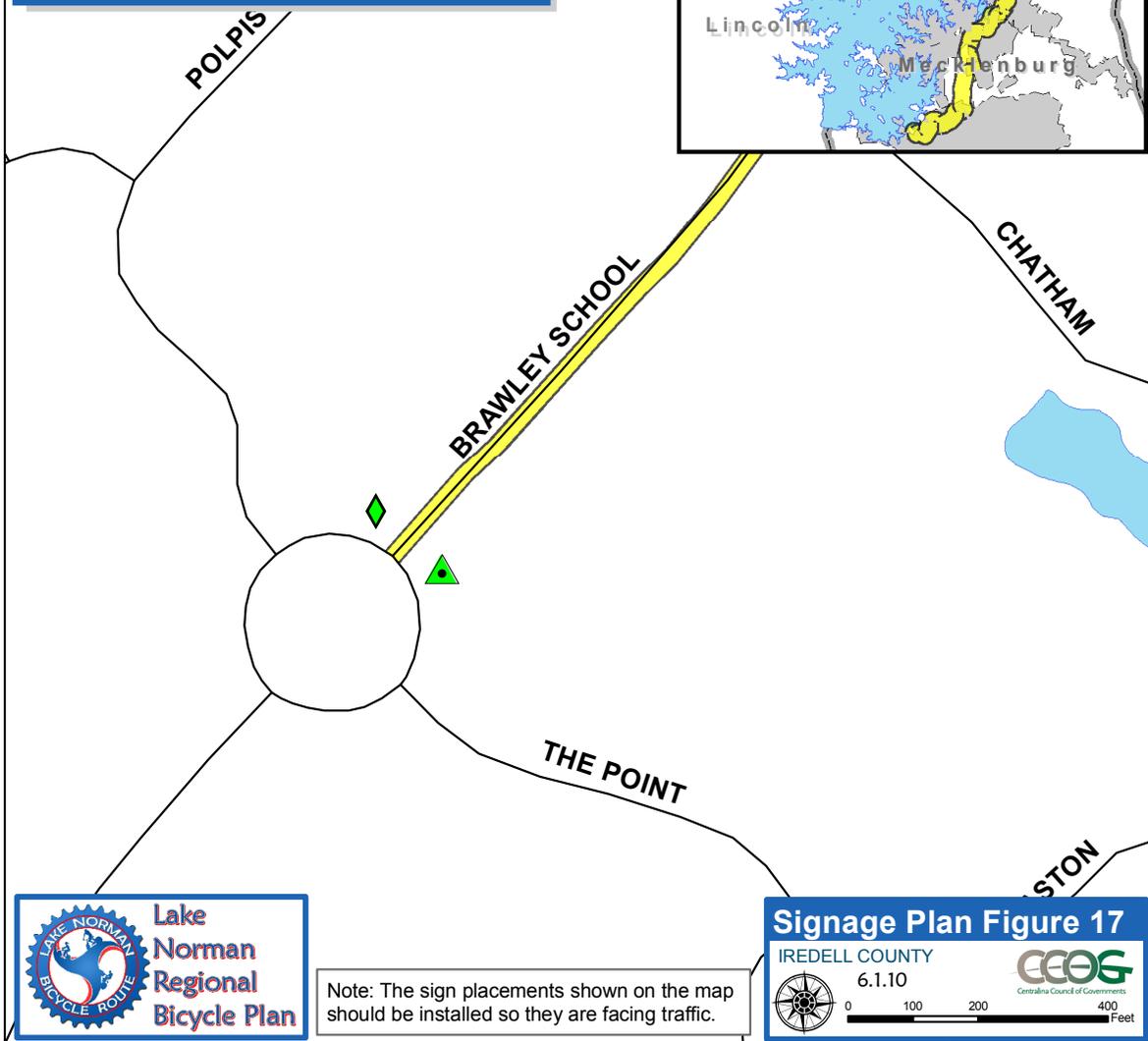
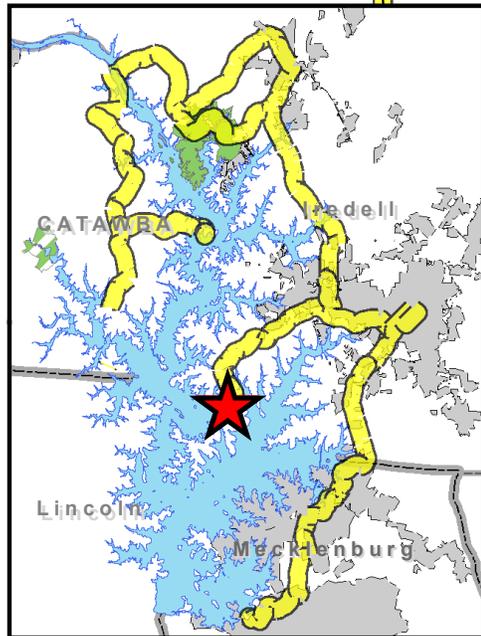




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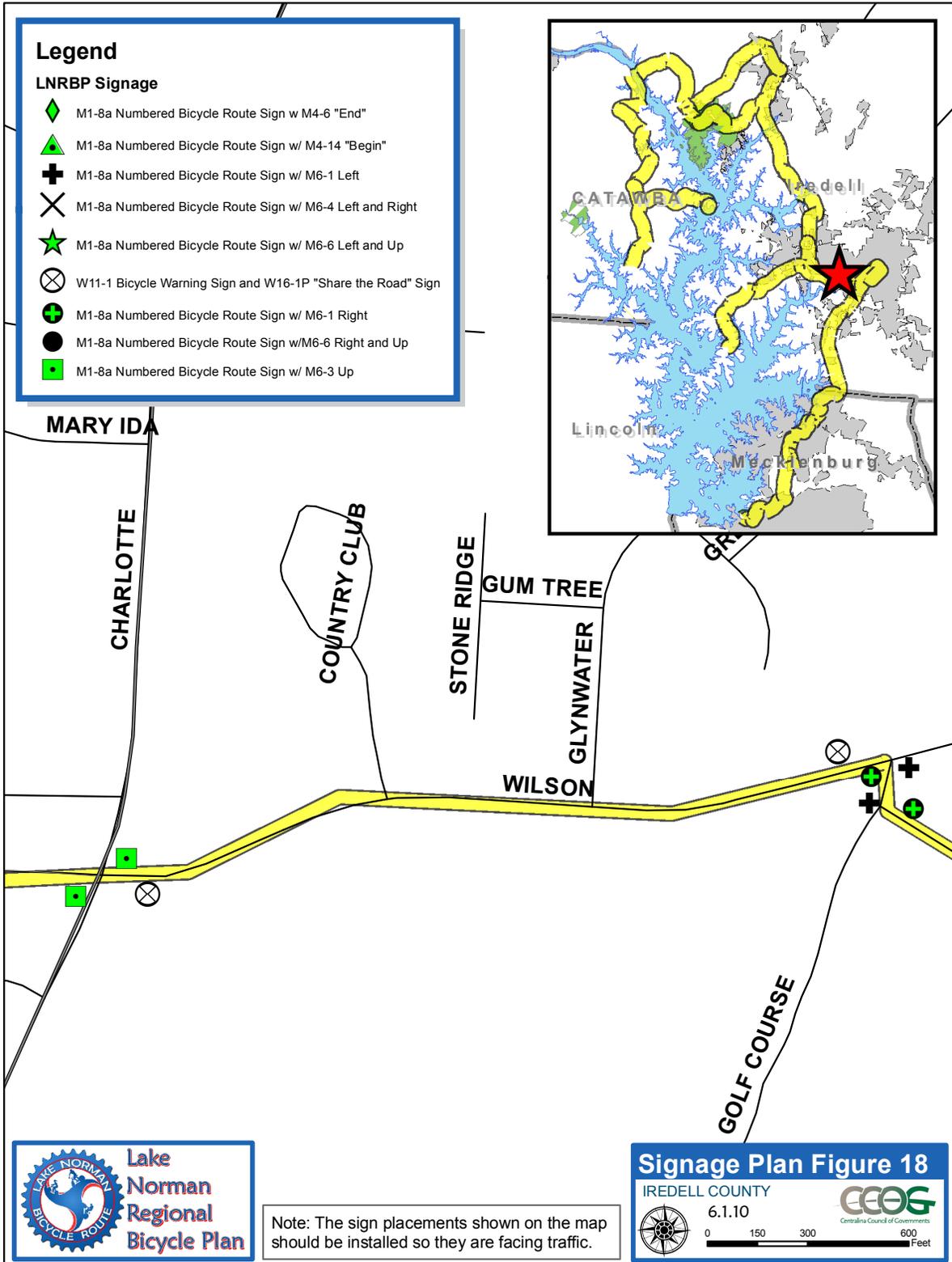


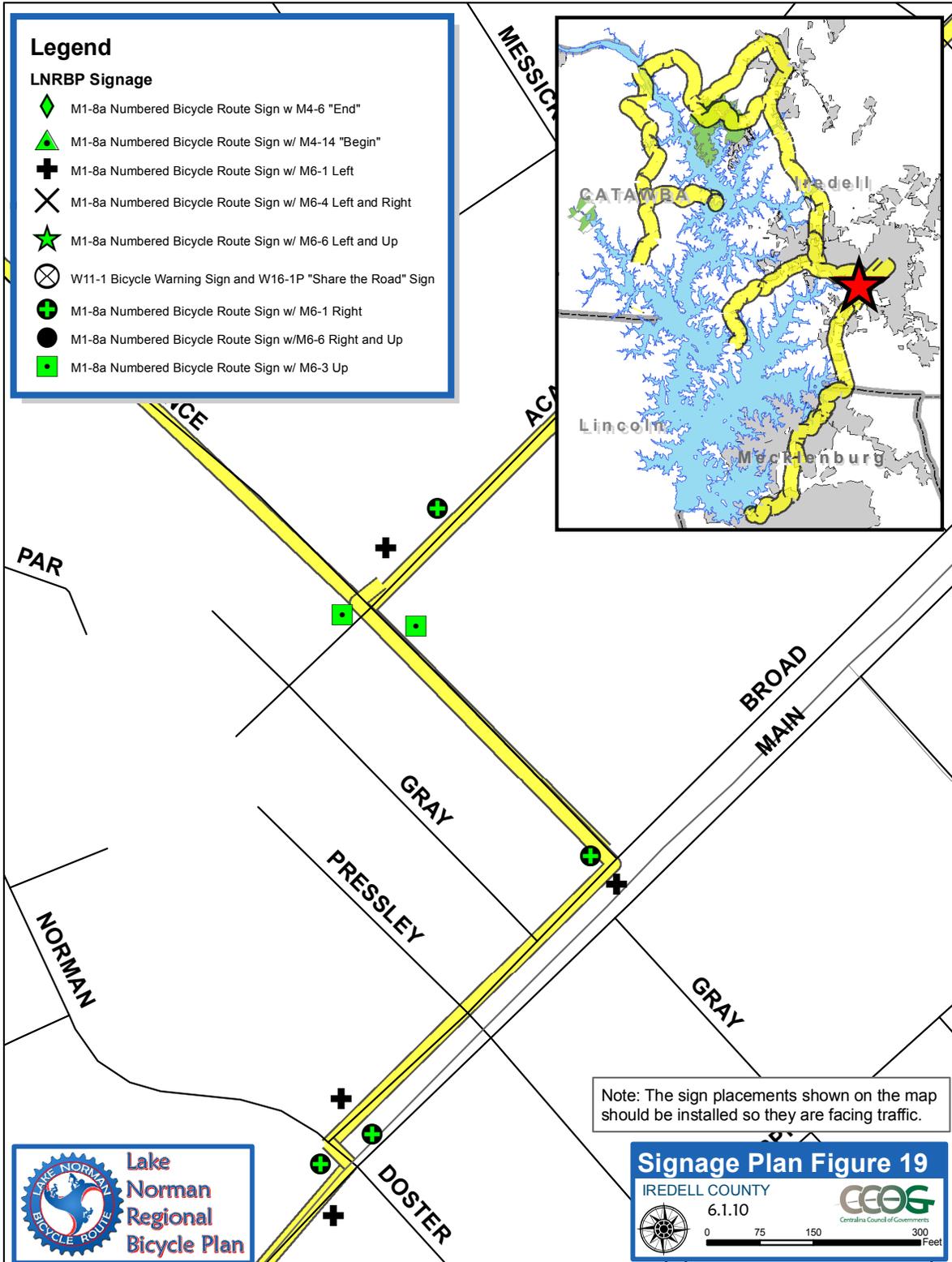
Note: The sign placements shown on the map should be installed so they are facing traffic.

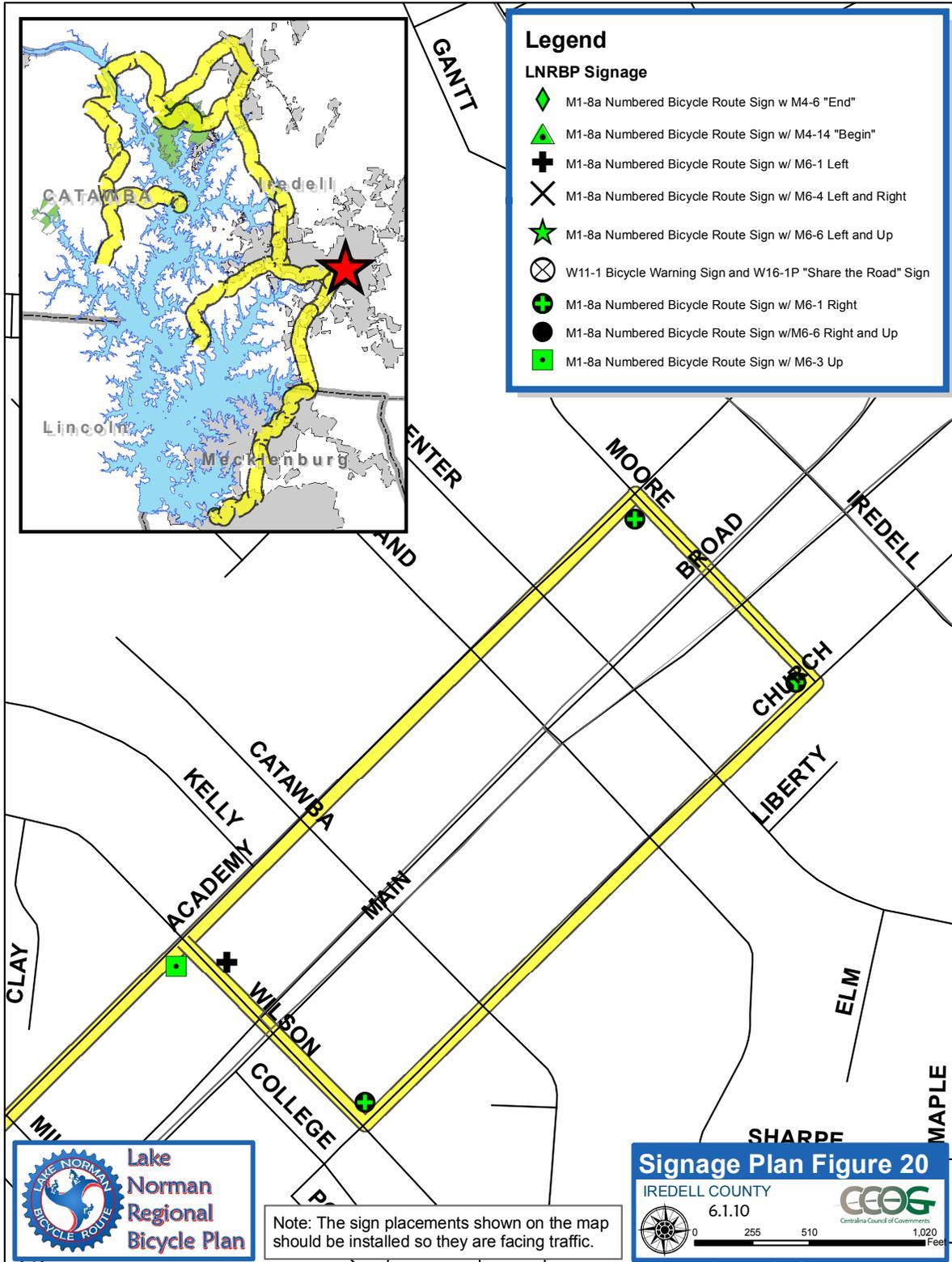
Signage Plan Figure 17
 IREDELL COUNTY
 6.1.10

 Centralina Council of Governments











Mecklenburg County

Mecklenburg County requires 53 sign installations. Approximately two-thirds (36) of the sign installations will be the responsibility of Cornelius, Davidson, or Huntersville. The remainder of the signs are found on NCDOT-maintained facilities, including Westmoreland Road, NC 115, and US 21.

Seven vicinity maps show signage installation locations in Mecklenburg County. They include:

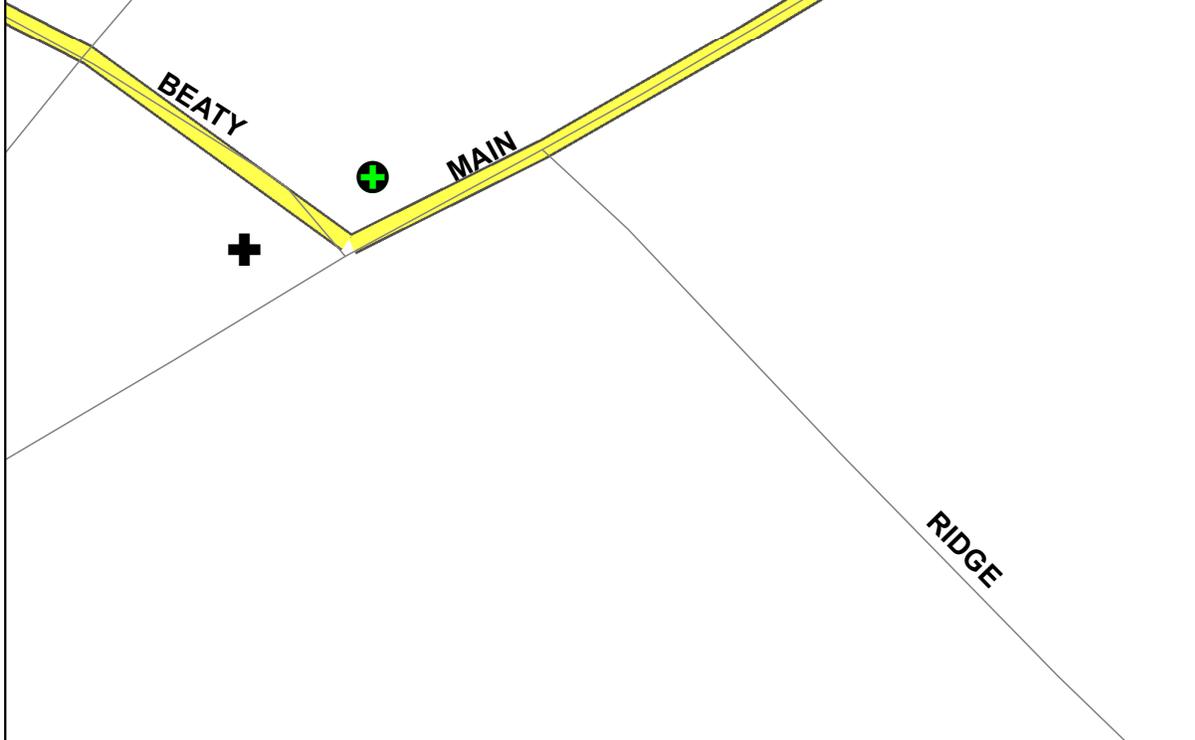
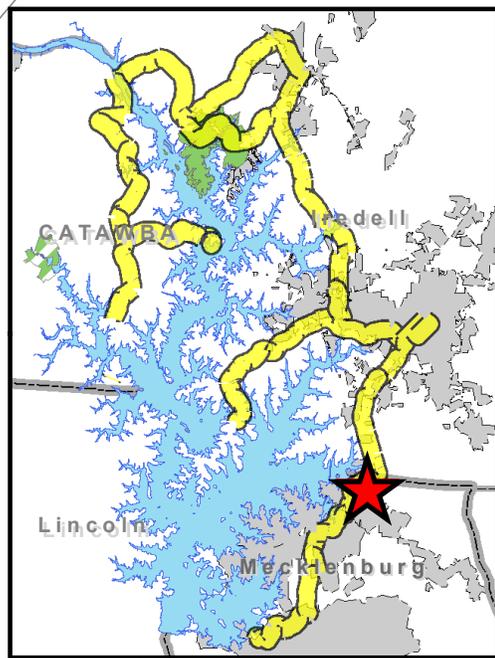
21. North Main and Beaty
22. Sloan, Gamble and Jetton
23. Cornelius, Main and Potts
24. Beard, Brinkley, Church and Cornelius
25. US 21 and Catawba
26. Westmoreland
27. Birkdale
28. Babe Stillwell and Sandowne



Legend

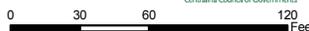
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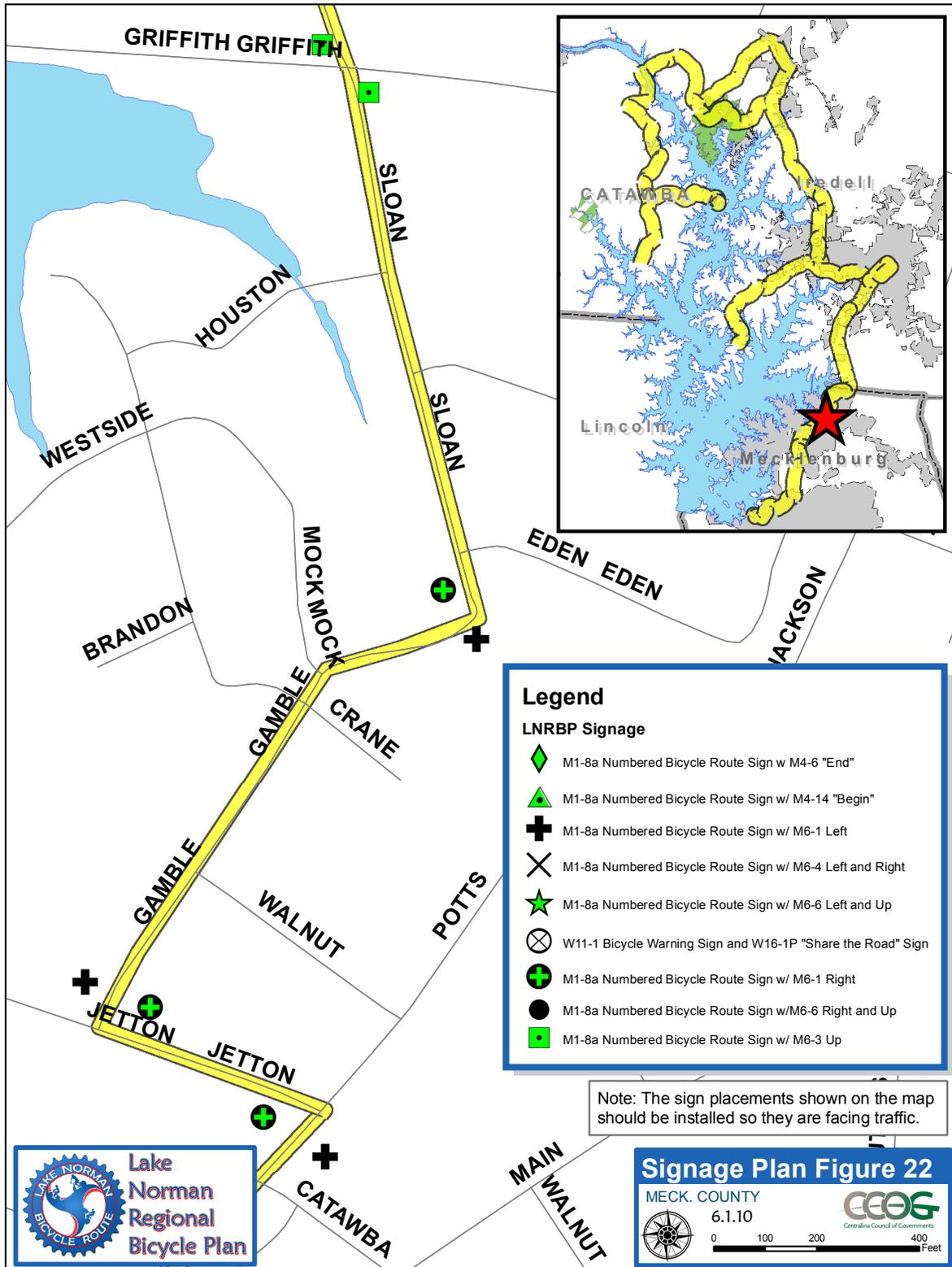
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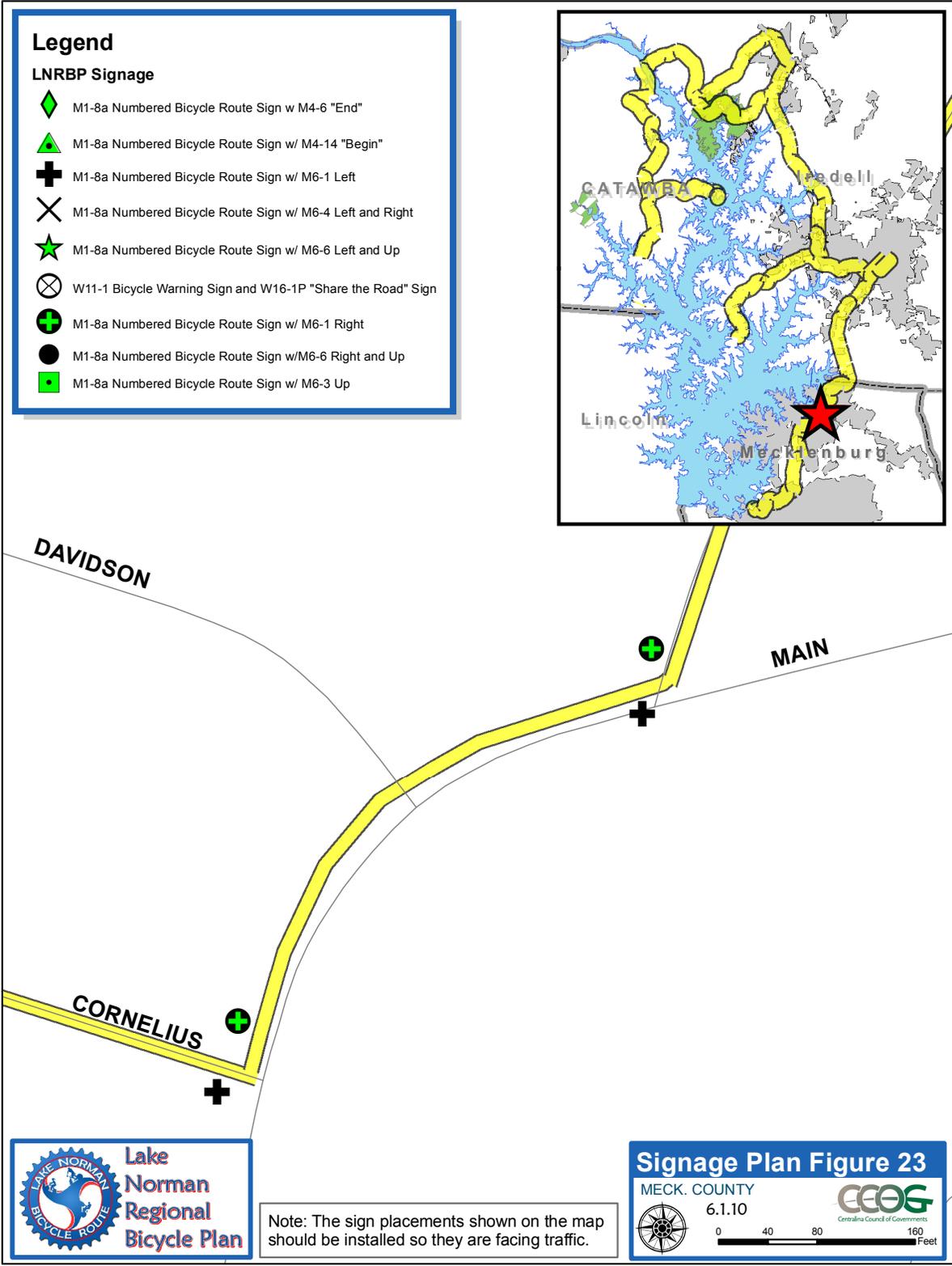


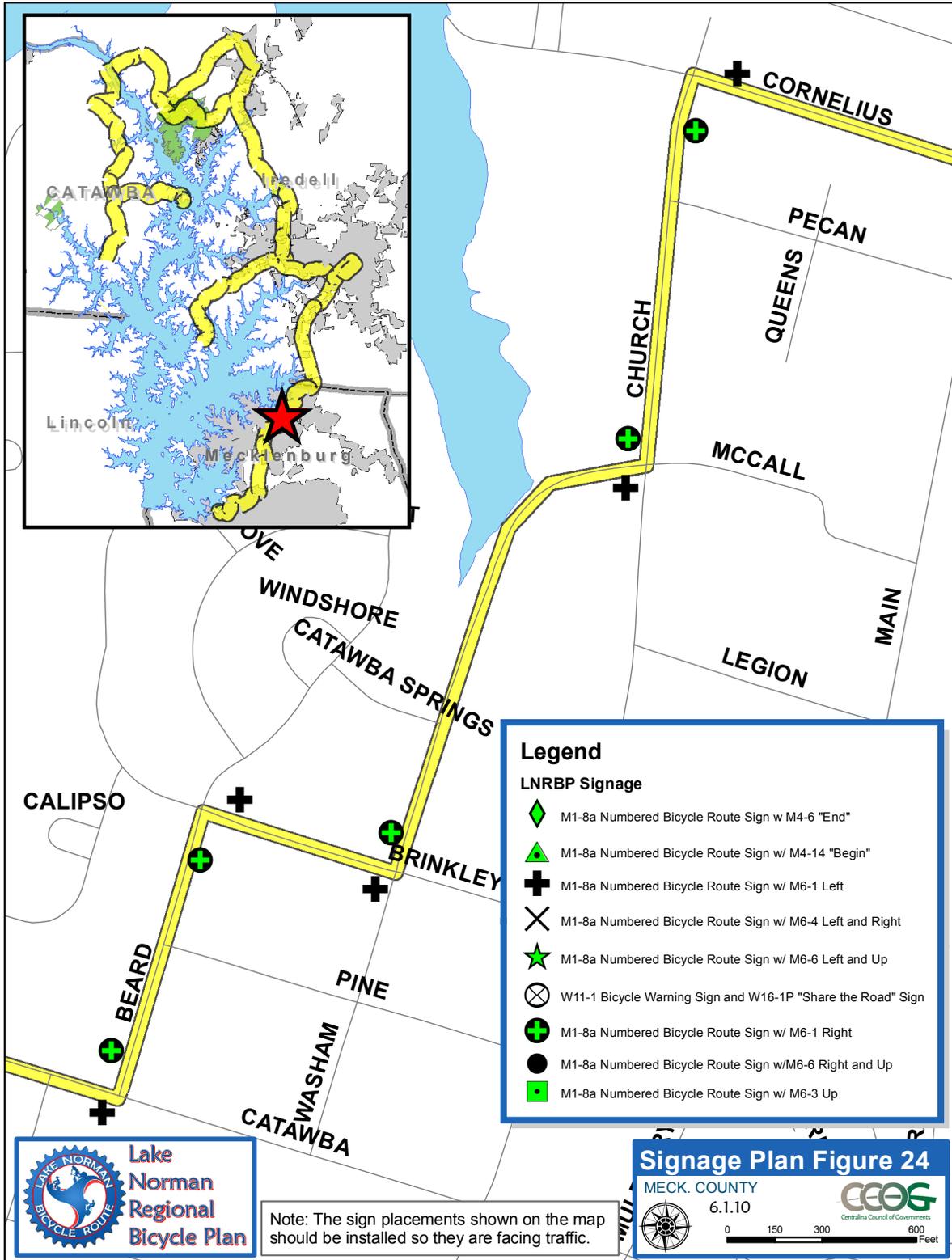
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Signage Plan Figure 21
 MECK. COUNTY
 6.1.10





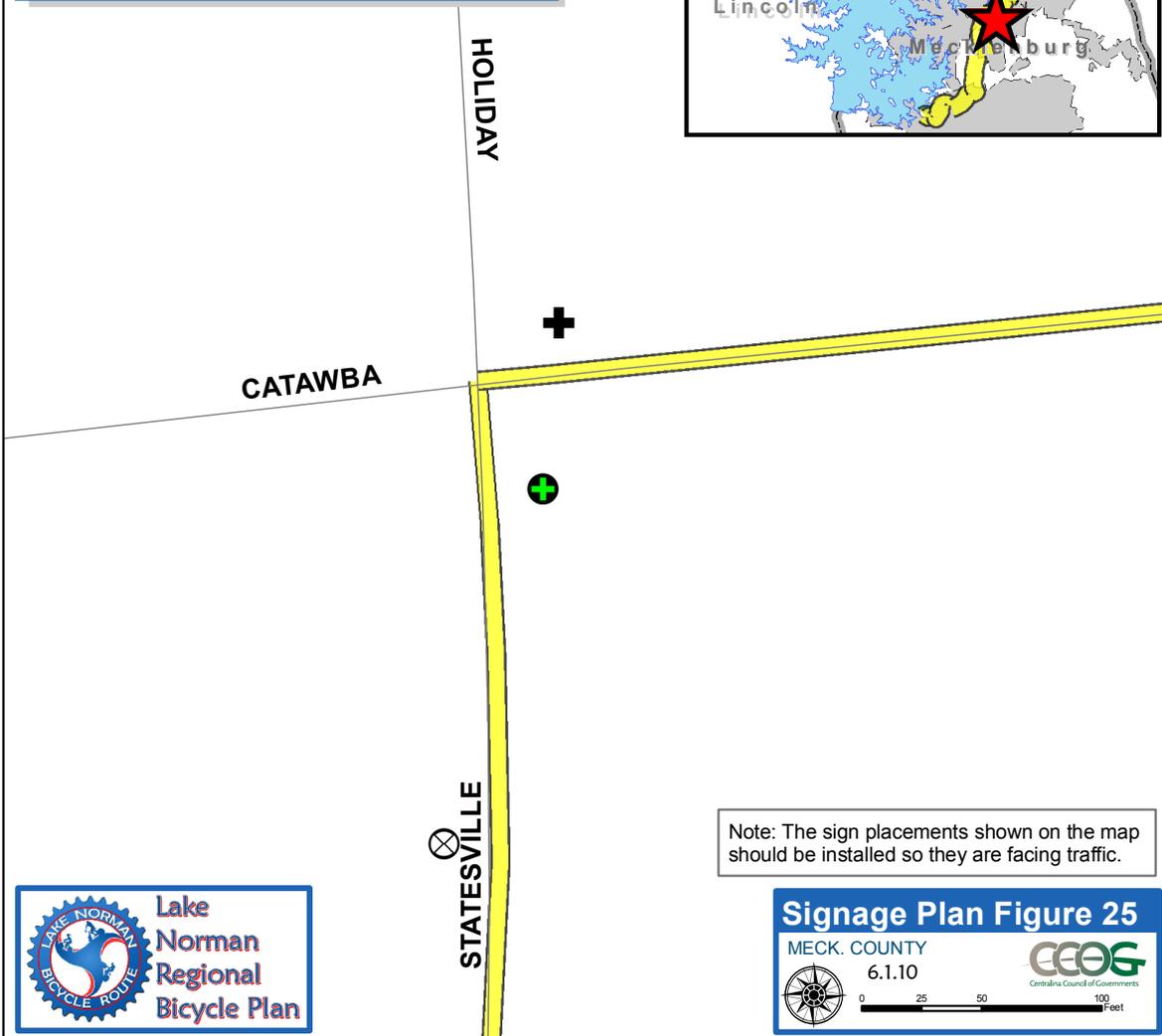
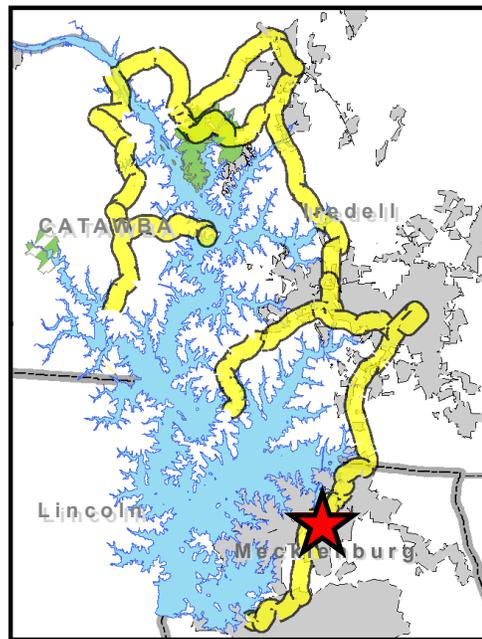




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Signage Plan Figure 25
 MECK. COUNTY
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