

Northlake Area Plan

Transportation Section



Existing Conditions

Jurisdictions & Representatives

- Mecklenburg-Union Metropolitan Planning Organization (MUMPO) – *Bob Cook*
- North Carolina Department of Transportation – *Aldie Whitmore*
 - I-77 and I-485
 - W. T. Harris Blvd, Mt. Holly-Huntersville Road, Reames Road, Statesville Road, Old Statesville Road, Lakeview Road, Beatties Ford Road
- City of Charlotte – *Jim Kimbler*

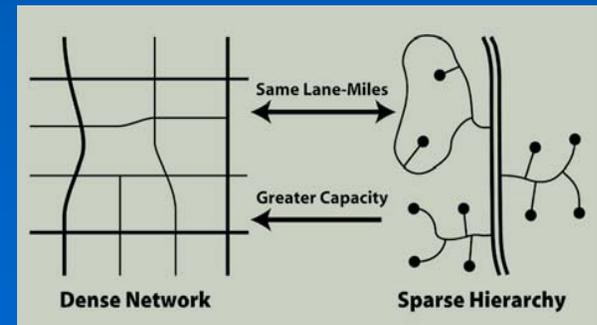
Preliminary Staff Assessment

<u>Variable</u>	<u>Rating</u>
Congestion	Moderate to High
Connectivity	Low
Pedestrian-Friendly	Low
Bicycle-Friendly	Low
Transportation Options	Low
Mixture of Land Use	Low

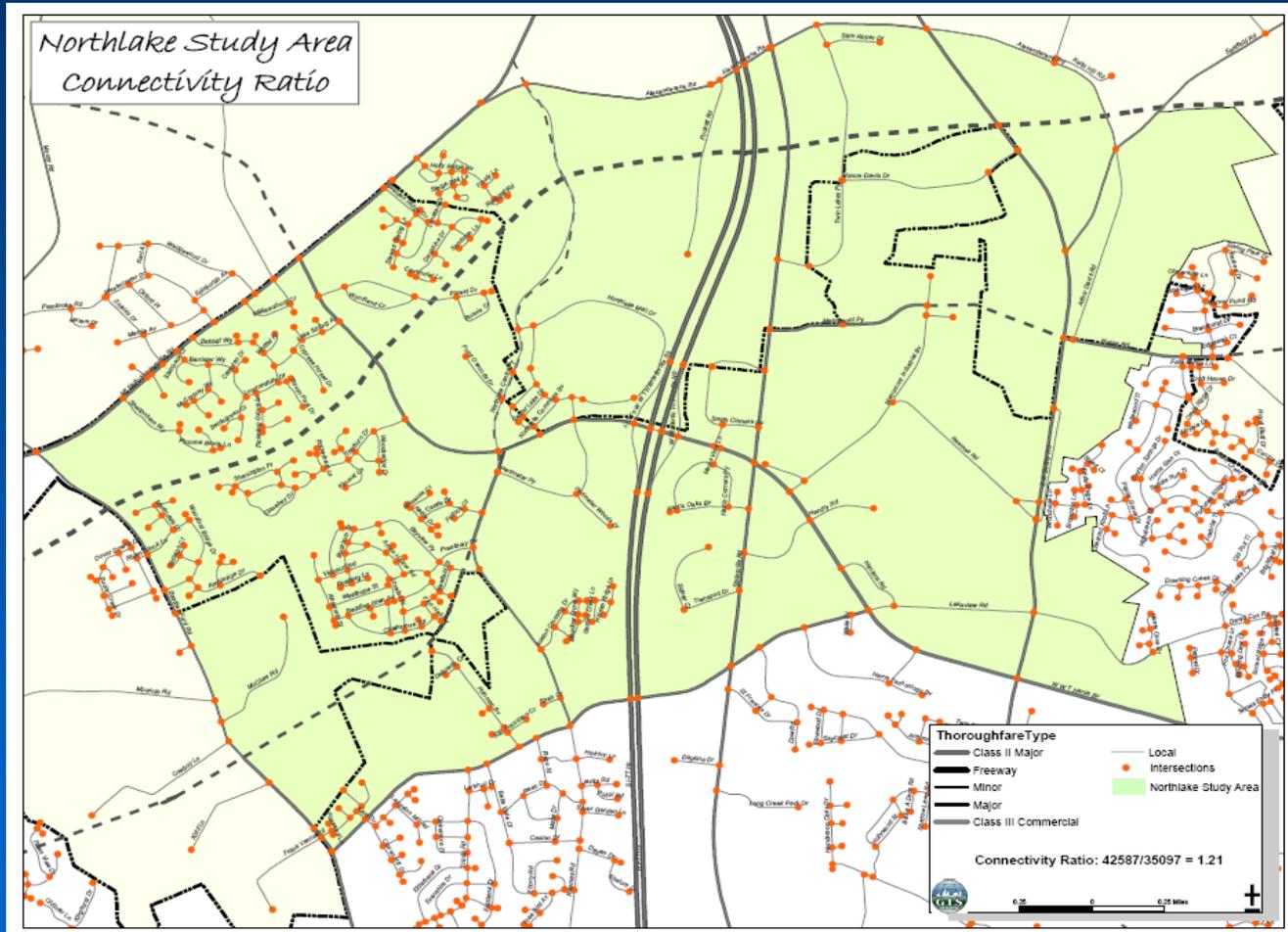
Why is Connectivity Important?



- Disperses traffic
- Travel choices and route options
- Reduces Vehicle Miles of Travel
- Pedestrian, Bicycle and Transit friendly
- Emergency Access/Response Times



Where does Northlake Stand on Connectivity?



Score: 1.21

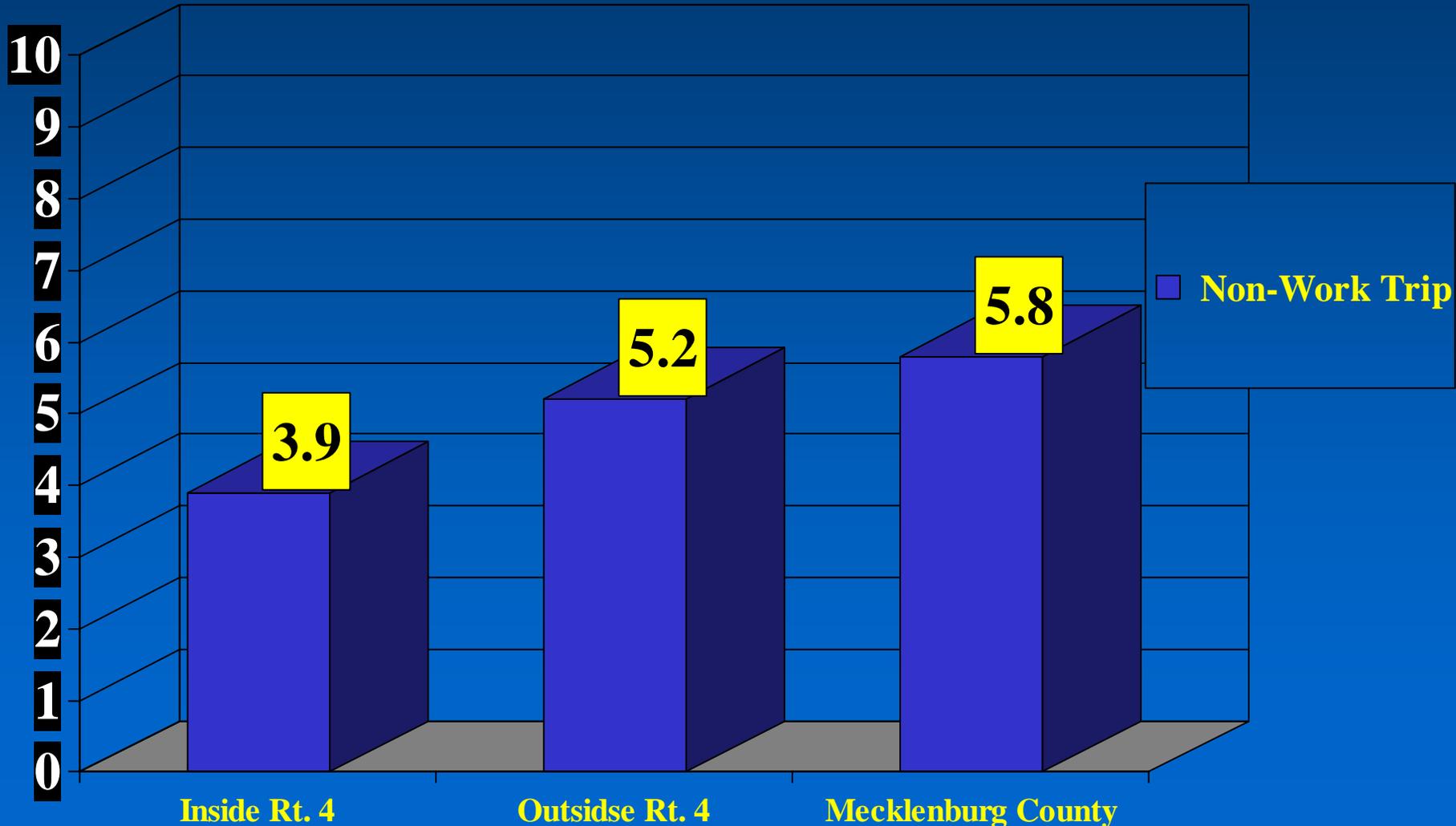
Percent of Population within ¼ mile...

	City Population	Northlake Population
Shopping	60%	79% (97%) (34%)
Schools	28%	20% (44%) (15%)
Parks	33%	67% (46%) (32%)
Transit	61%	28% (99%) (4%)

Note: Yellow highlighted percents are related to Dilworth; red percentages are for Rocky River.

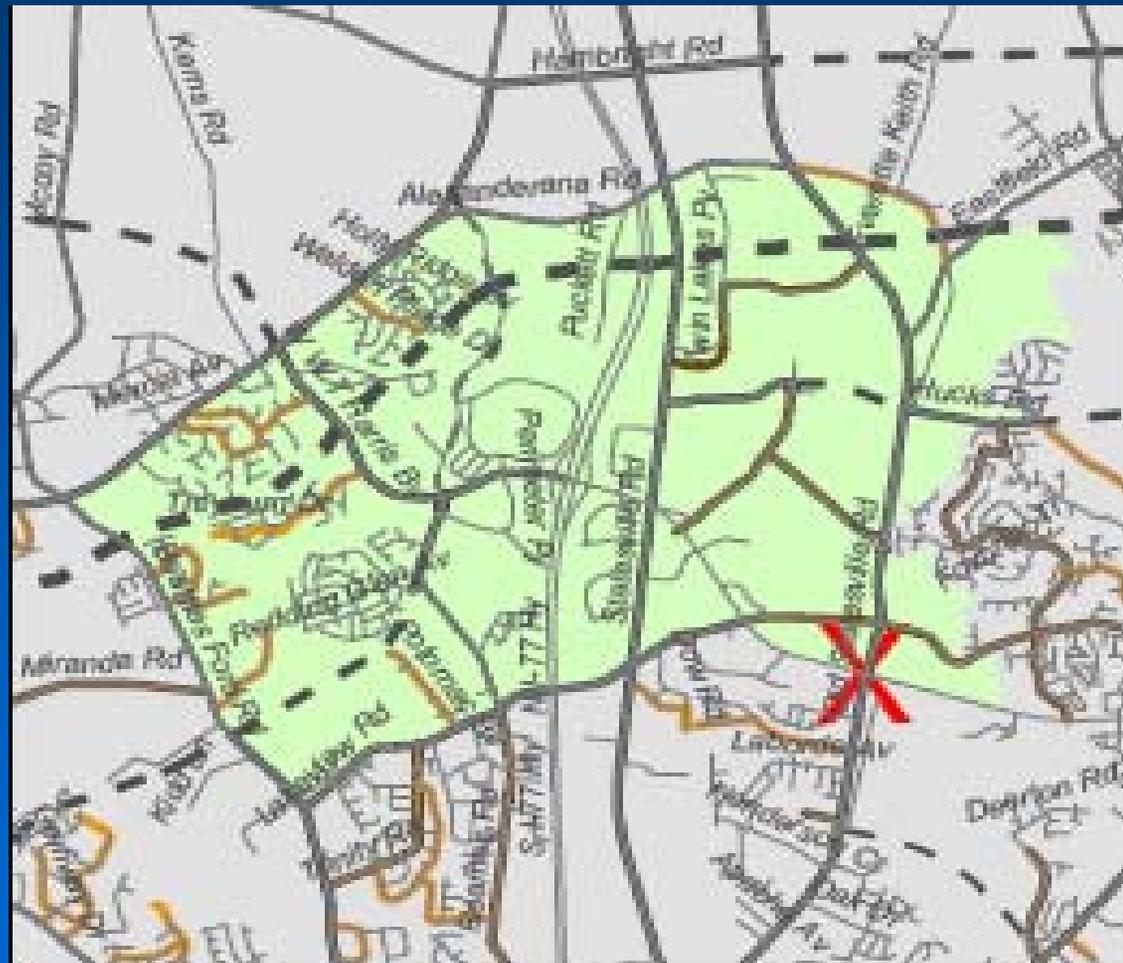
Average Trip Length (in miles)

Source: Charlotte Department of Transportation

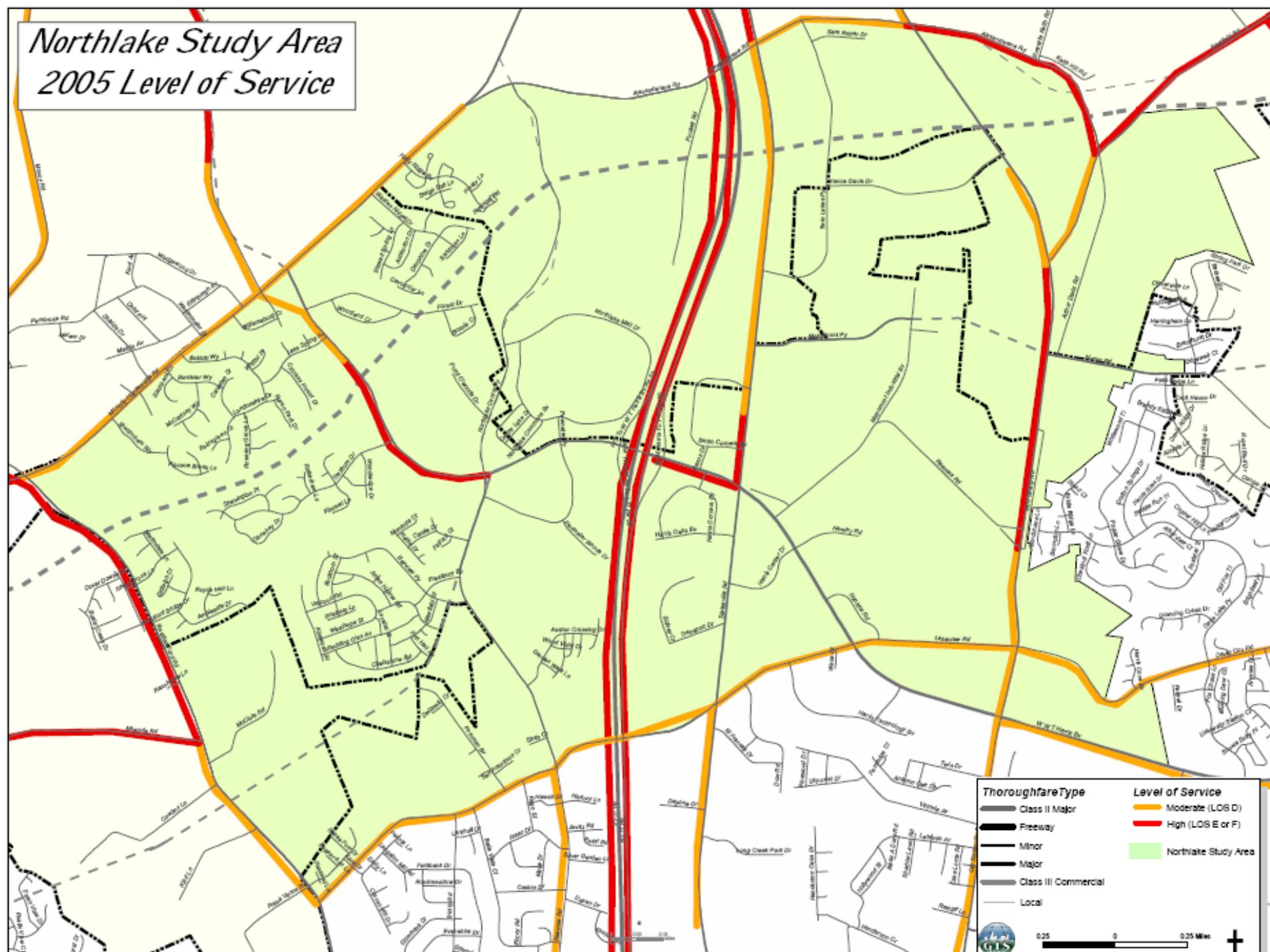


High Congestion Location

Old Statesville Road and W. T. Harris Blvd



Northlake Study Area 2005 Level of Service



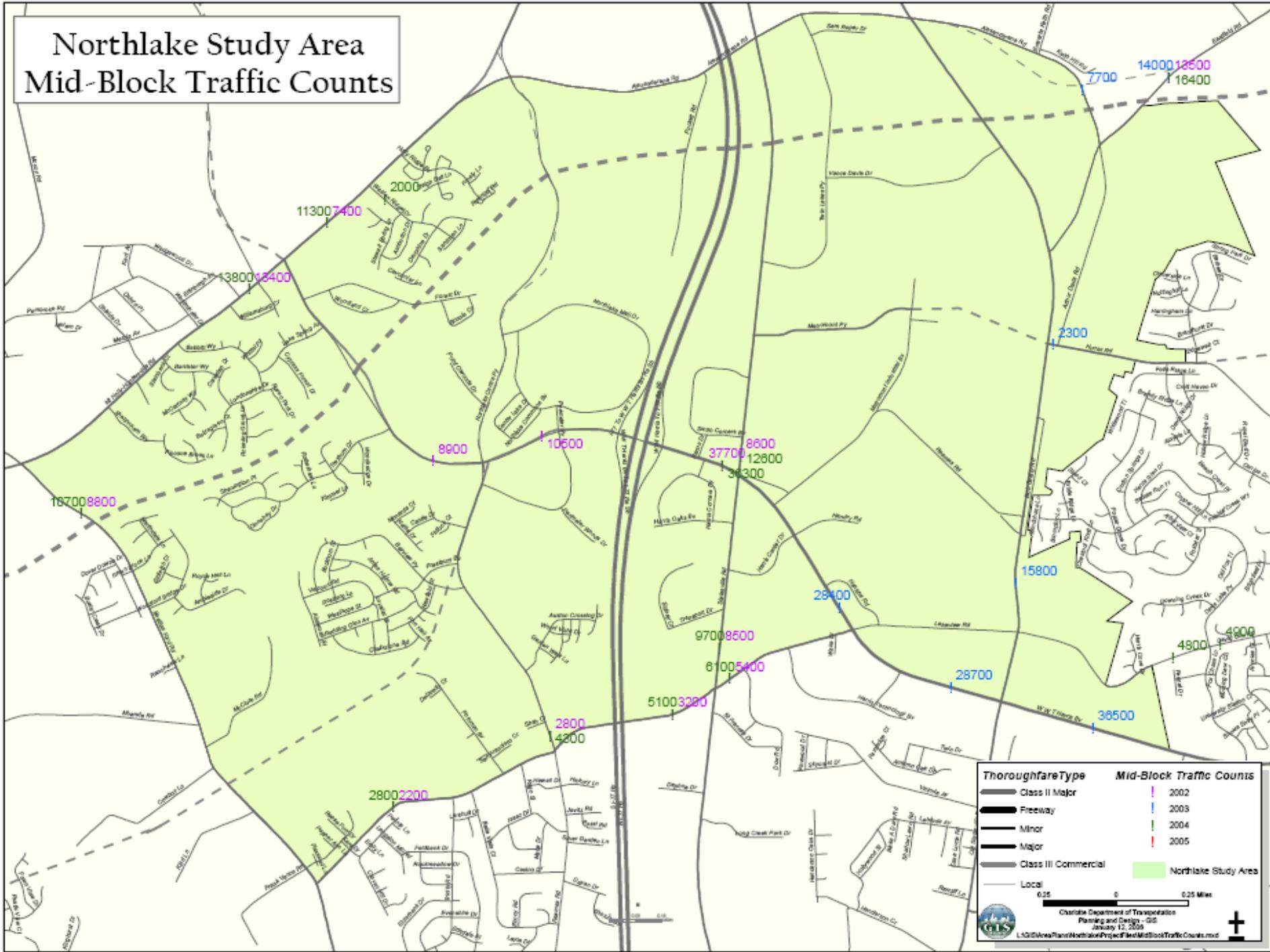
Thoroughfare Type	Level of Service
Class II Major	Moderate (LOS D)
Freeway	High (LOS E or F)
Minor	Northlake Study Area
Major	
Class III Commercial	
Local	

GIS

0.25 0 0.25 Miles

+

Northlake Study Area Mid-Block Traffic Counts



Thoroughfare Type

- Class II Major
- Freeway
- Minor
- Major
- Class III Commercial
- Local

Mid-Block Traffic Counts

- 2002
- 2003
- 2004
- 2005

Northlake Study Area

0.25 0 0.25 Miles

Charlotte Department of Transportation
Planning and Design - GIS
January 12, 2006
L:\GIS\MapPlan\Northlake\Project\Map\MidBlockTrafficCounts.mxd

Findings

- 2005 Existing Zoning, Land Use and Transportation Network have resulted in some constrained facilities.
- Poor level of service (E or F) on many roadway segments in the study area.

MUMPO 2030 LRTP Projects

Project Location	Description	MUMPO Rank
2020 Horizon Year		
Alexanderana Road	Widen to a 4-lane divided facility, with sidewalks and bike lanes. From Mount Holly-Huntersville Road to Old Statesville Road	44
Hambright Road	Widen to 4-lane divided facility, with sidewalks and bike lanes. From Mount Holly-Huntersville Road to Old Statesville Road	53
Fred D. Alexander Boulevard	Construct new 4-lane divided facility, with sidewalks and bike lanes. From Sunset Road to W.T. Harris Blvd <i>(part of larger facility)</i>	56
I-77	Widen to 6 lanes, plus HOV lanes. From I-485 to Iredell County.	Highest rank: 24 *
Old Statesville Road (NC 115)	Widen to 4-lane divided facility, with sidewalks and bike lanes. From W.T. Harris Boulevard to Davidson.	Highest rank: 22 *
Statesville Road (US 21)	Widen to 4-lane divided facility, with sidewalks and bike lanes. From I-85 to Catawba Avenue in Cornelius.	Highest rank: 38 *
* Various-project split into segments for ranking purposes		

MUMPO 2030 LRTP Projects

2030 Horizon Year		
W.T. Harris Boulevard	Widen to 4-lane divided facility, with sidewalks and bike lanes. From Northlake Center Parkway to NC 73.	Various-project split into segments for ranking purposes Highest rank: 87
Hucks Road Extension	Widen to 4-lane divided facility, with sidewalks and bike lanes. From Prosperity Church Road to Statesville Road. Part of this road will be relocated.	Various-project split into segments for ranking purposes Highest rank: 90

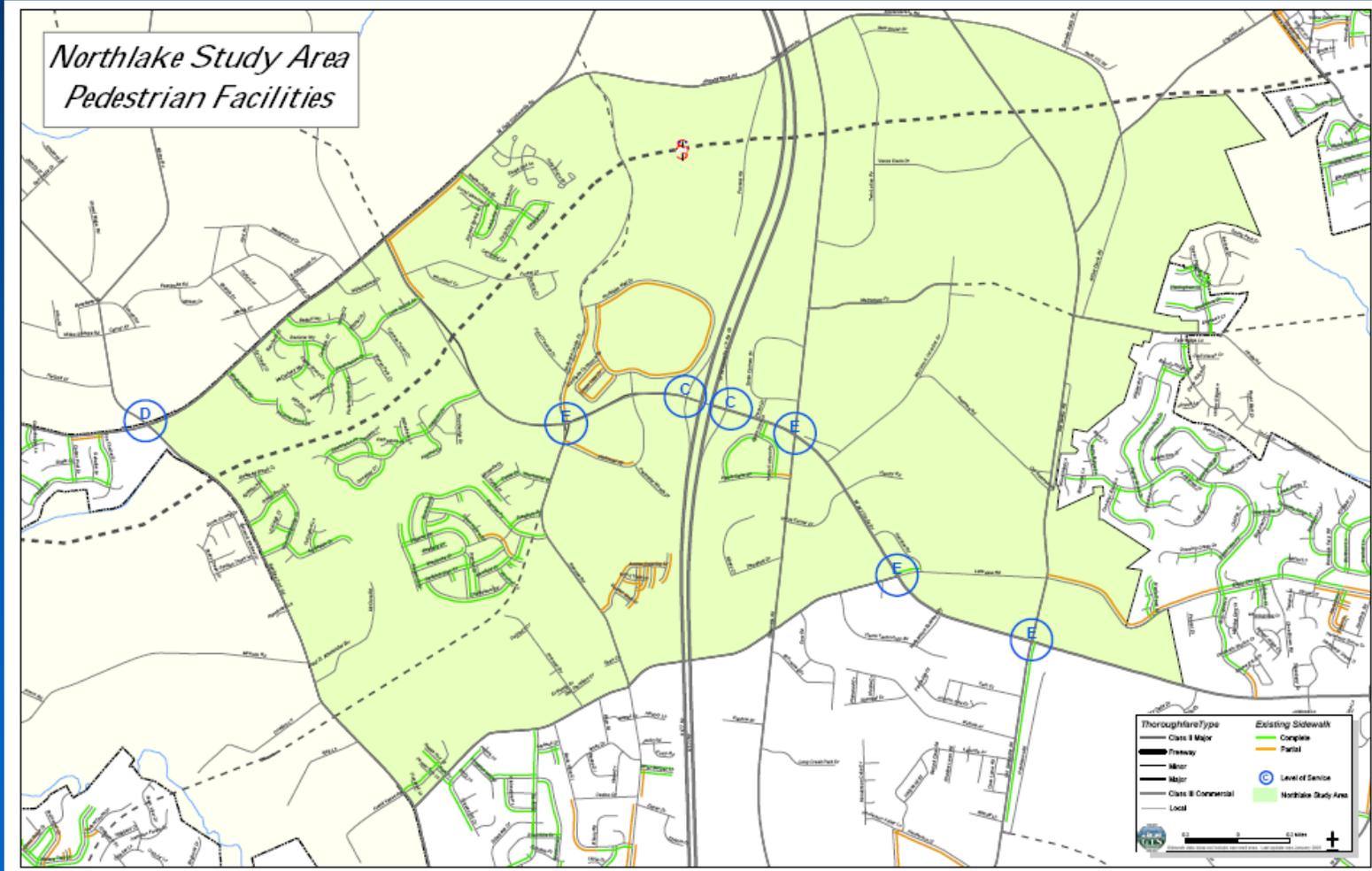
Horizon Year refers to the final year of a 10 year increment into which LRTP's are divided. The 2020 horizon year is from January 1, 2011 through December 31, 2020. When a project is located in a particular horizon year, it means that it is assumed that funding will become available and that the project will be completed and open to traffic during that 10 year period.

Is Northlake Pedestrian Friendly?

- Numerous roads do not include sidewalks
- Older residential developments were constructed during a time when the city or county did not require sidewalks
- The disconnected street system and lack of nearby land uses reduce the likelihood of someone walking in the Northlake Area.
- City staff conducted a Pedestrian Level of Service Analysis for Signalized Intersections. All signalized intersections on W.T. Harris Boulevard except at I-77 have low pedestrian LOS.
- Today, the Northlake Area is not a pedestrian-friendly community.



Is Northlake Pedestrian Friendly?



Is Northlake Pedestrian Friendly?

Level of service is a measure of pedestrian quality and comfort ranging from A to F; A being the best and F the worst. Pedestrian Level of Service Evaluation factors includes:

- Crossing Distance
- Corner radius
- Conflicts with turning vehicles
- Signal timing
- Right turns on red
- Crosswalk treatment
- Adjustment for traffic flow direction

Is Northlake Pedestrian Friendly?

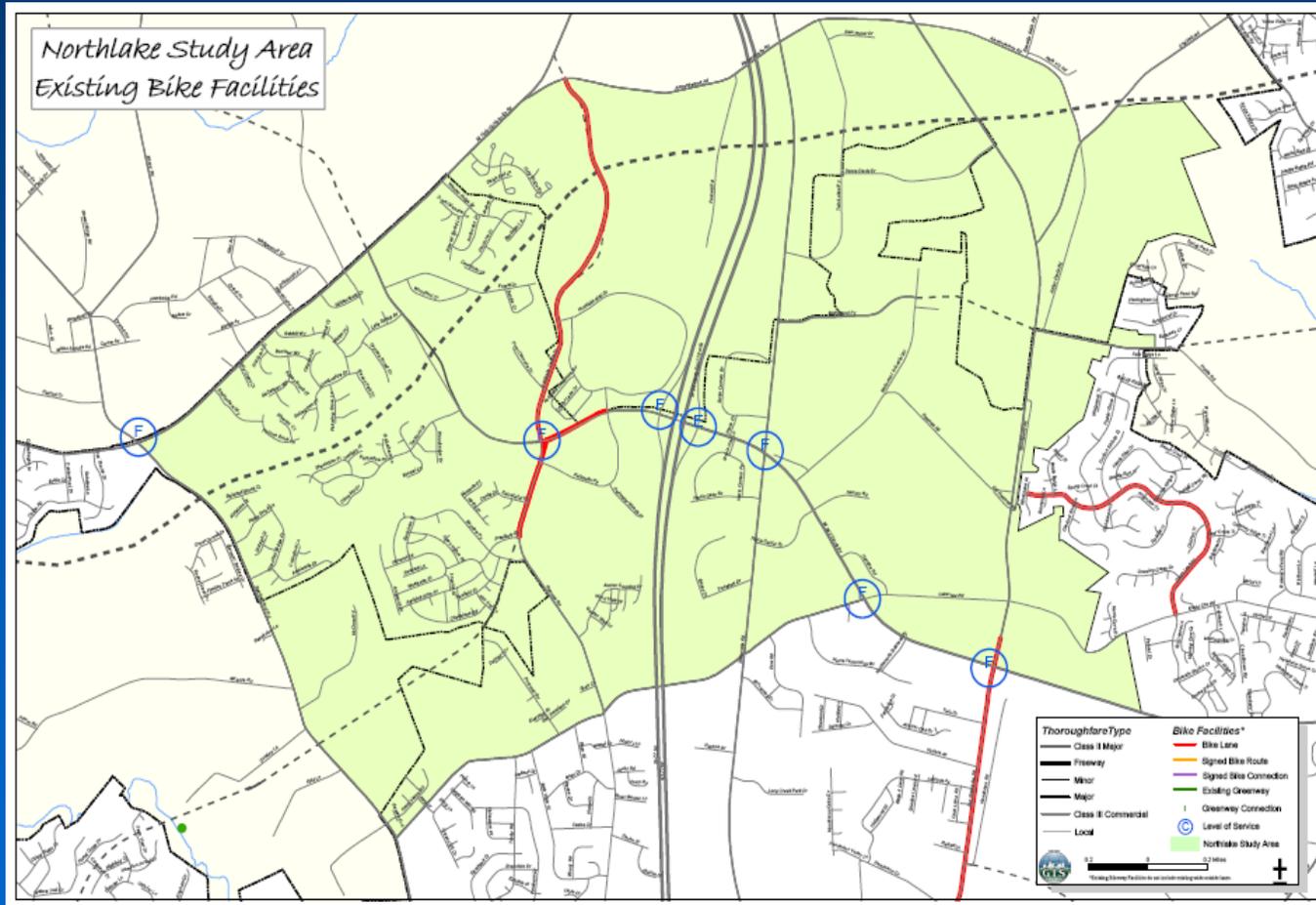
- Beatties Ford Road at Mt. Holly/Huntersville Road LOS D
- W. T. Harris Boulevard at I-77 NB LOS C
- W. T. Harris Boulevard at I-77 SB LOS C
- W. T. Harris Boulevard at Lakeview Road LOS E
- W. T. Harris Boulevard at Old Statesville Road LOS E
- W. T. Harris Boulevard at Reames Road LOS E
- W. T. Harris Boulevard at Statesville Road LOS E

Is Northlake Bicycle Friendly?

- The Northlake area is currently characterized by a series of narrow two-lane roads and disconnected subdivisions.
- Today, the Northlake Area is not a bicycle-friendly community.



Is Northlake Bicycle Friendly?



Is Northlake Bicycle Friendly?

Level of service is a measure of pedestrian quality and comfort ranging from A to F; A being the best and F the worst. Bicycle Level of Service Evaluation Factors includes:

- Signal Phasing & timing
- Bikeway space
- Right turn conflict
- Speed of adjacent traffic
- Right turns on red
- Crossing Distance

Is Northlake Bicycle Friendly?

- Beatties Ford Road at Mt. Holly/Huntersville Road LOS F
- W. T. Harris Boulevard at I-77 NB LOS F
- W. T. Harris Boulevard at I-77 SB LOS F
- W. T. Harris Boulevard at Lakeview Road LOS F
- W. T. Harris Boulevard at Old Statesville Road LOS F
- W. T. Harris Boulevard at Reames Road LOS F
- W. T. Harris Boulevard at Statesville Road LOS F

THANK YOU!

Charlotte Department of Transportation



Connecting **Charlotte**