

# Bicycle Infrastructure

1st of 2 presentations about Bike Infrastructure

This Month:

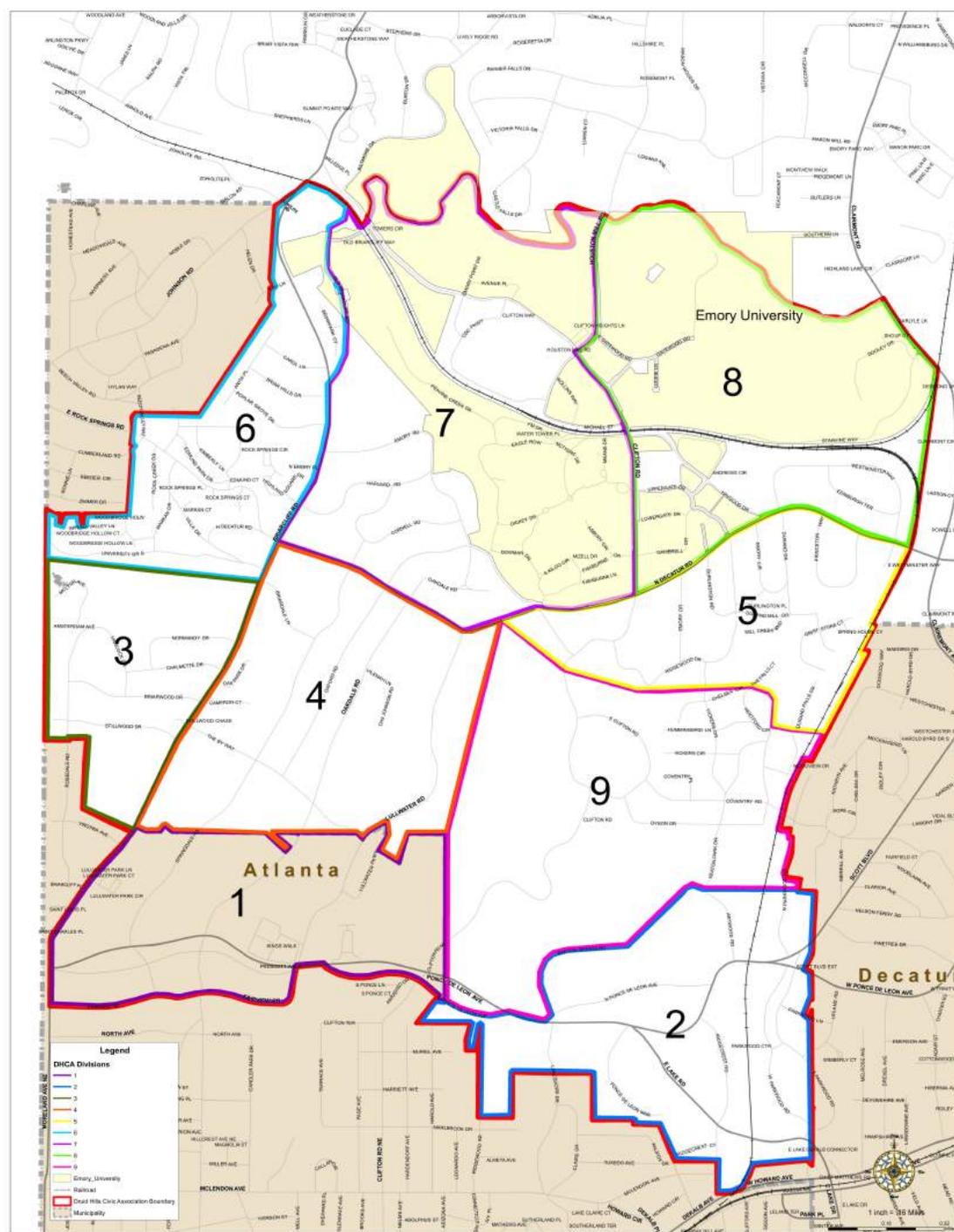
A Picture of Transportation and  
Infrastructure in Druid Hills

Next Month:

A Look at Cycling and Infrastructure Design

March 2018

# Druid Hills DHCA map

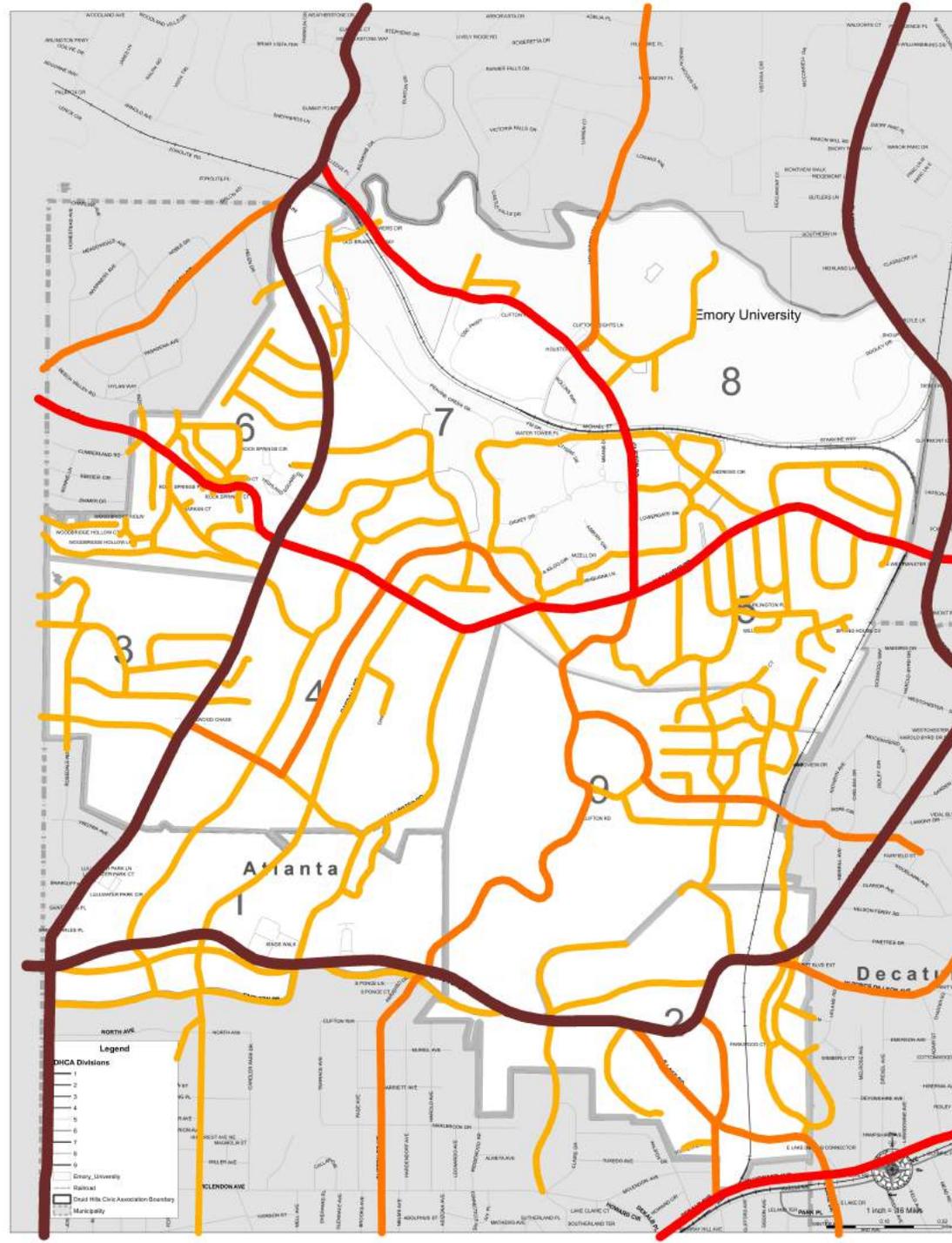


We'll use this map to look at existing transportation infrastructure in DH.

# Druid Hills

## Streets

- GA DoT Major Arterial
- Minor Arterial
- Minor (connecting)
- Minor



Street maps also show urban planning design:

- subdivisions
- zoning
- neighborhood access

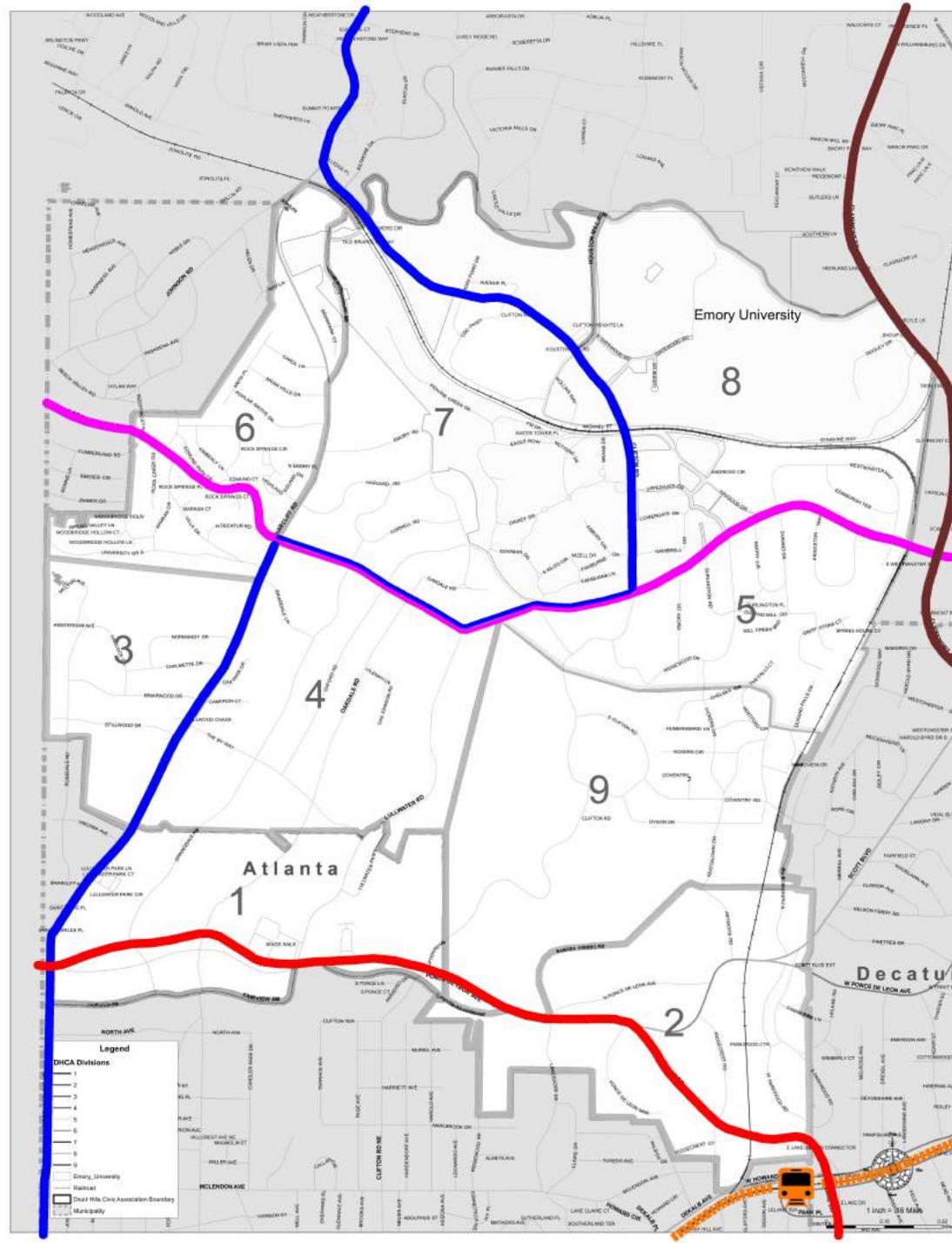
Street maps generally do not change over time.

This basic layout is what we have to work with in DH.

- 16 main entry / exit points for all DH transportation access

# Druid Hills

## Mass Transit



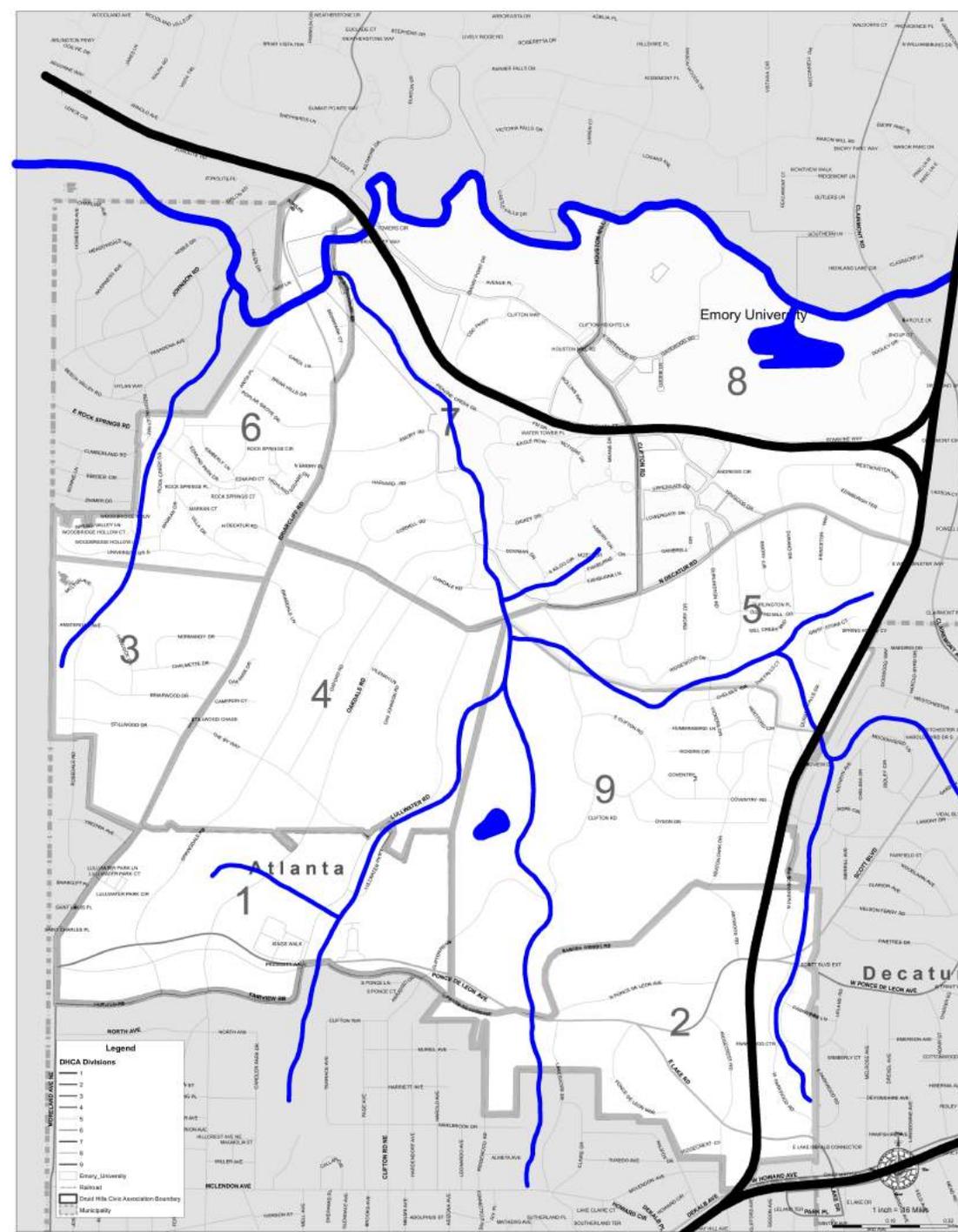
- 4 MARTA bus lines serve DH

- 1 MARTA rail station—East Lake station at the SE corner

Emory Cliff routes are not shown on this map, but all off-campus routes use the same streets as MARTA routes.

# Druid Hills

## Water and Rail



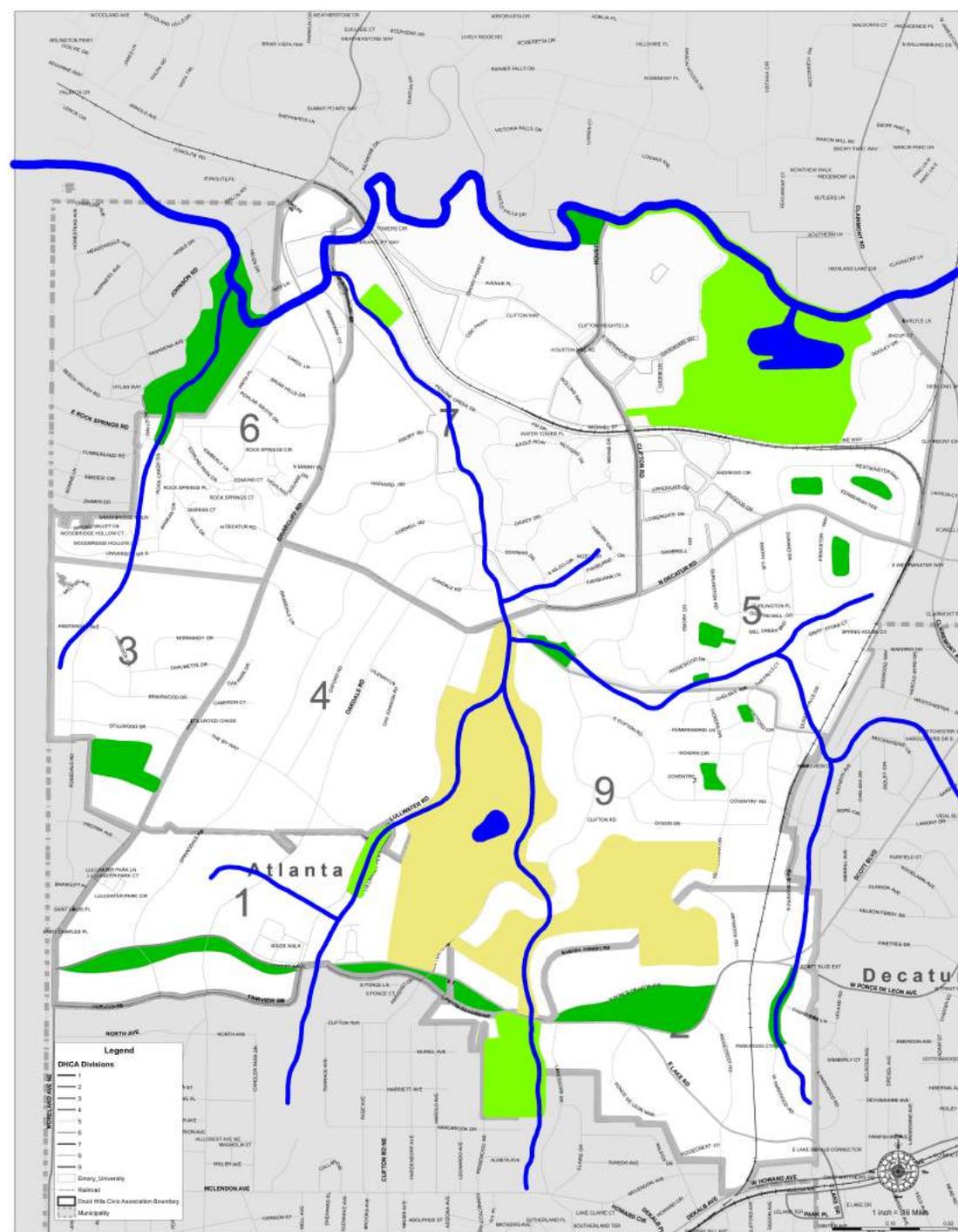
For transportation planning, water and rail are similar:

- You have to get over, under or around them
- Sometime they create corridors for pedestrian and bicycle travel.

# Druid Hills

## Parks

- Public Park
- Private but Open to the Public
- Private



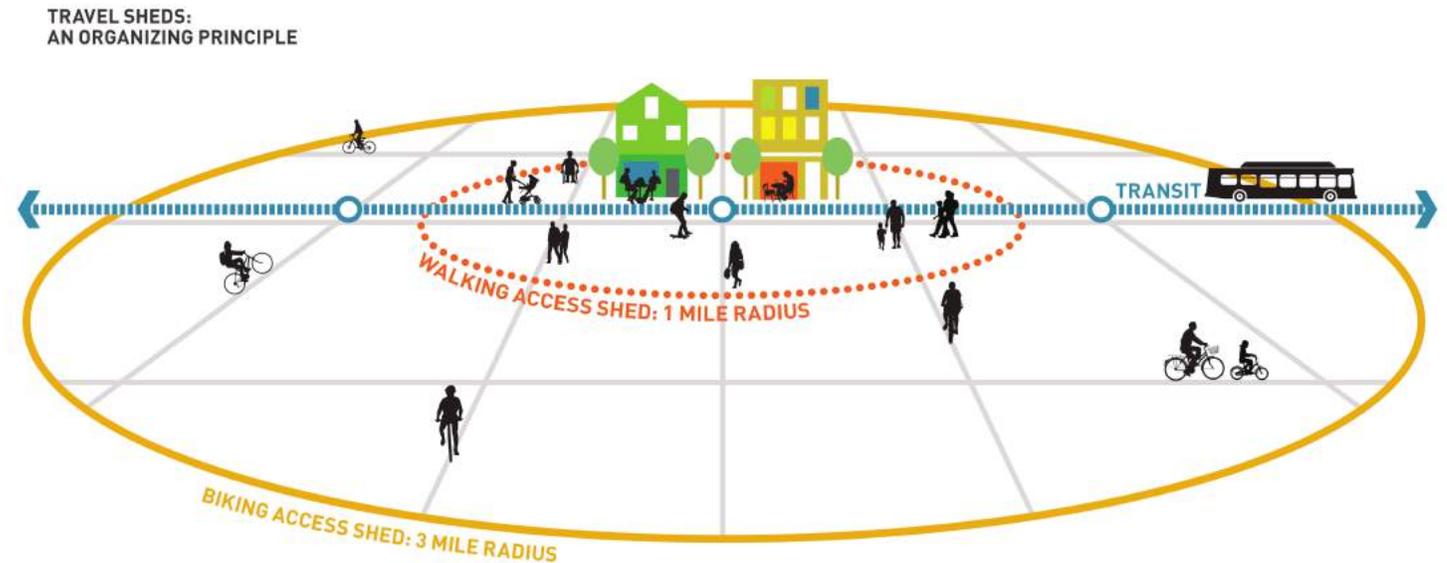
Parks are destination points

# Urban Planning – Travel Sheds

Travel sheds are a useful design parameter for urban planning.

- Pedestrians will walk up to 1 mile to reach a destination
- Cyclists will ride up to 3 miles to reach a destination

If a given travel shed contains a neighborhood's basic needs and destinations, then walking and cycling may be viable options for travel within the area.

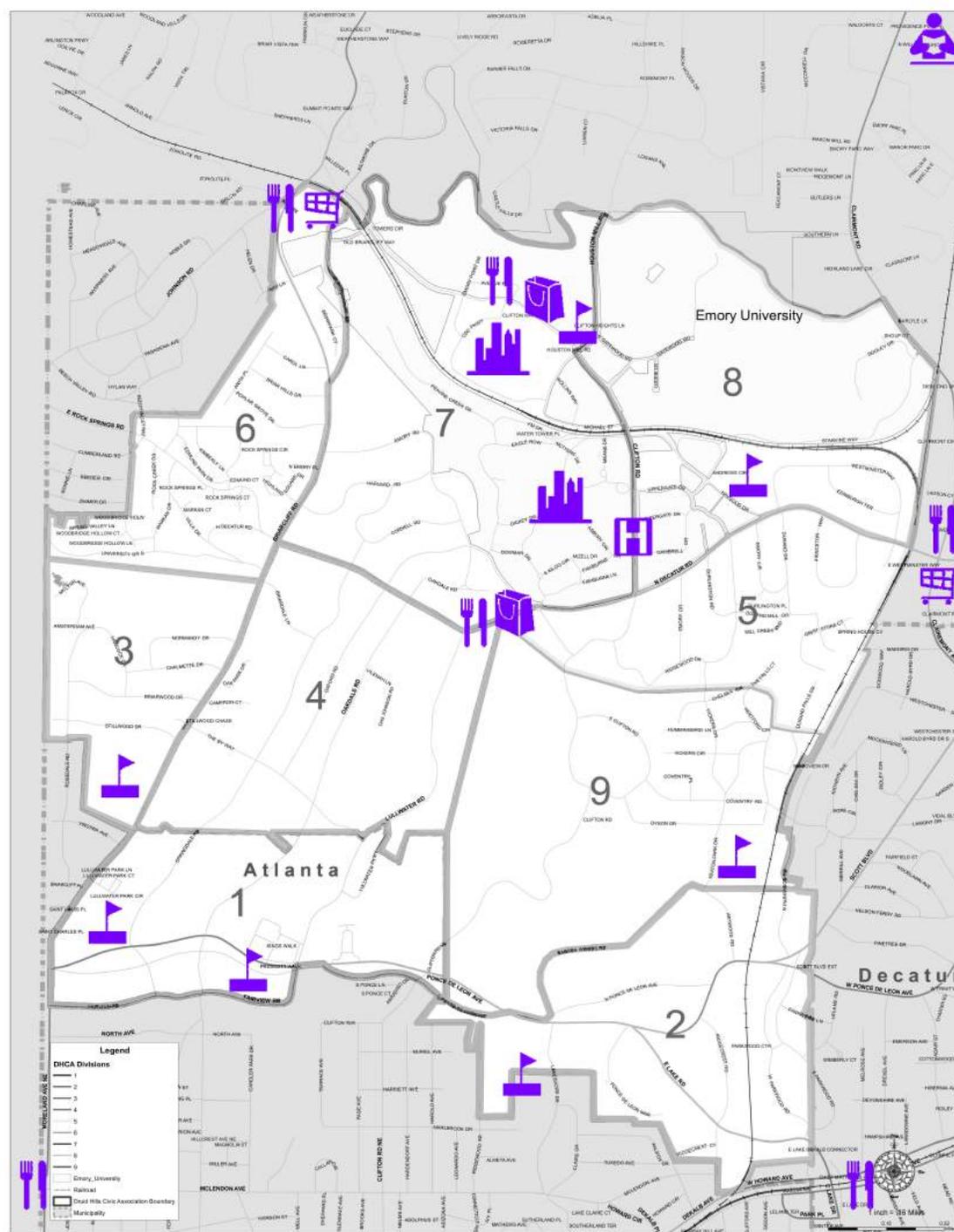


If mass transit is available within a given travel shed, then walking and cycling become viable options for travel throughout the city.

# Druid Hills

- FOOD
- GROCERY
- RETAIL
- SCHOOL
- LIBRARY
- SERVICES
- JOBS

## Destination Points



And many more: Museums, Performing Arts, DH Golf Club, Churches, Playgrounds, ...

For reference, walking distances:

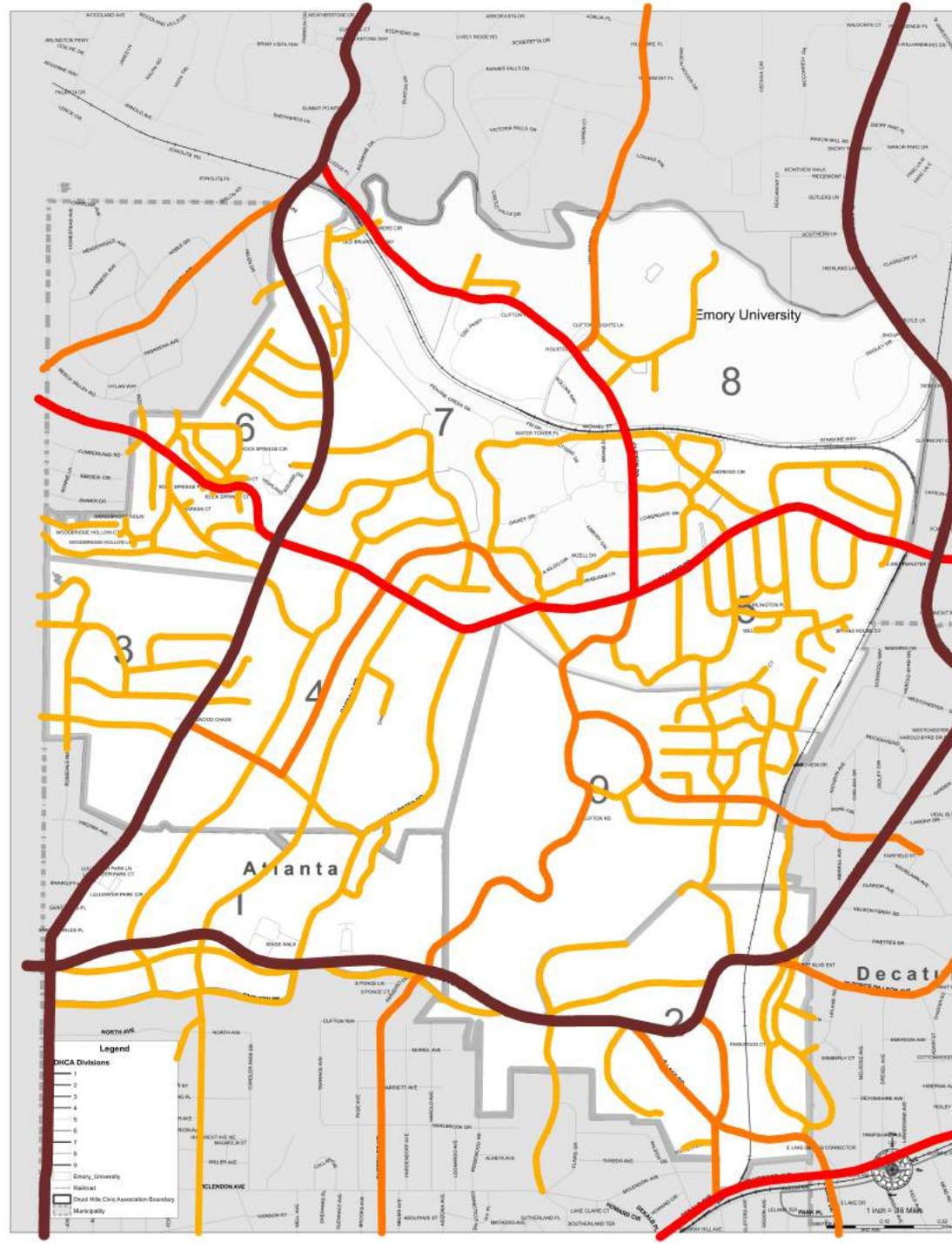
- Emory Village to Druid Hills High School – 0.8 miles
- Emory Village to Fernbank Elementary – 1.1 miles
- Emory Village to Emory Point – 1.2 miles
- Emory Village to Paideia School – 1.4 miles
- Emory Village to Fernbank Museum – 1.5 miles
- East Lake Station to Emory Village – 2.3 miles
- East Lake Station to Sage Hill – 4 miles

# Druid Hills

## Streets (revisited)

Our ability to move around is dictated by this layout.

1-mile, 3-mile...  
walk, bike or drive –  
this is how you get there.



Urban Planning Definition:  
Streets vs. Roads

Road = the paved bit on which you drive.

Street = the full right-of-way, typically from sidewalk to sidewalk

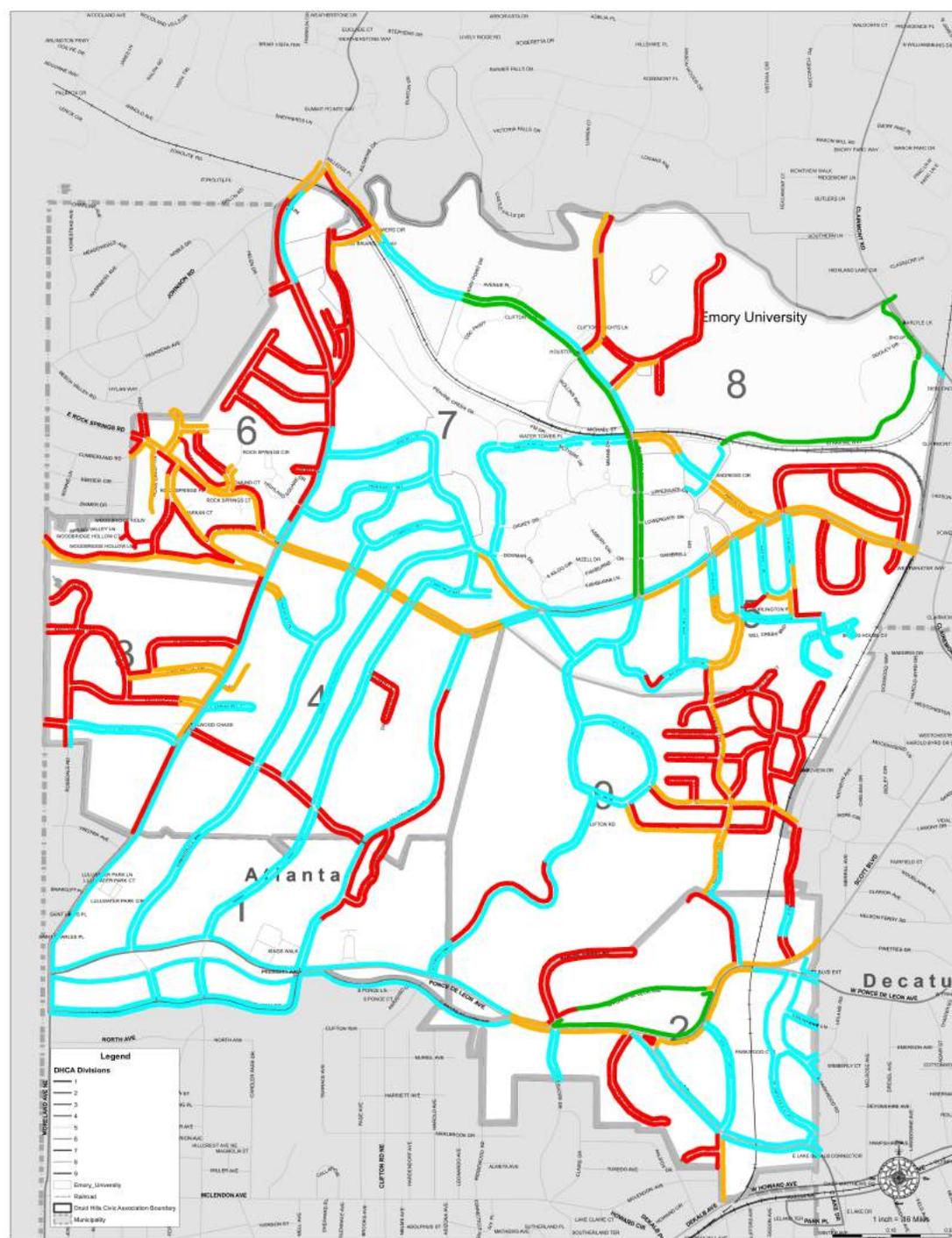
Urban Planning Concept:

“Design streets as if they are the most important public spaces – *because they are.*”

# Druid Hills

## Sidewalks

- ADA Compliant
- Mixed - Some ADA Issues
- Poor or Unsafe Condition
- No Sidewalk



- Sidewalks in DH are showing their age.
- Few are fully compliant with the American Disabilities Act (ADA).
- Several areas of DH have no sidewalks at all.
- Sidewalk access to Fernbank Elementary is especially poor.
- Estimated \$200M backlog of sidewalk repairs in Atlanta\* – expect no change in our sidewalks any time soon.

\*reference: PEDS, 2018

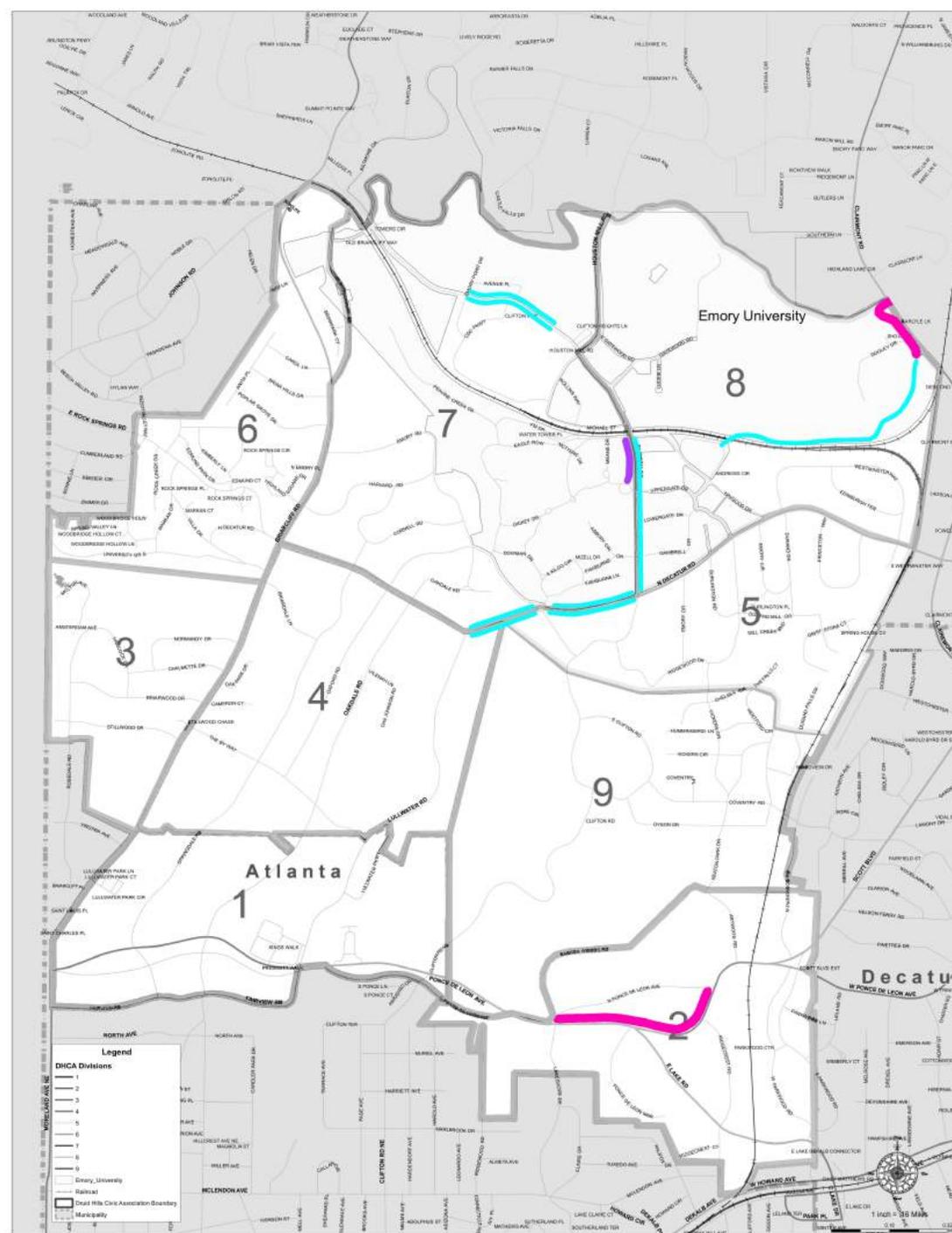
# Druid Hills

## Bike Infrastructure

— Painted Bike Lane

— Protected Bike Lane

— Trail



- Very little bicycle infrastructure currently exists within DH.

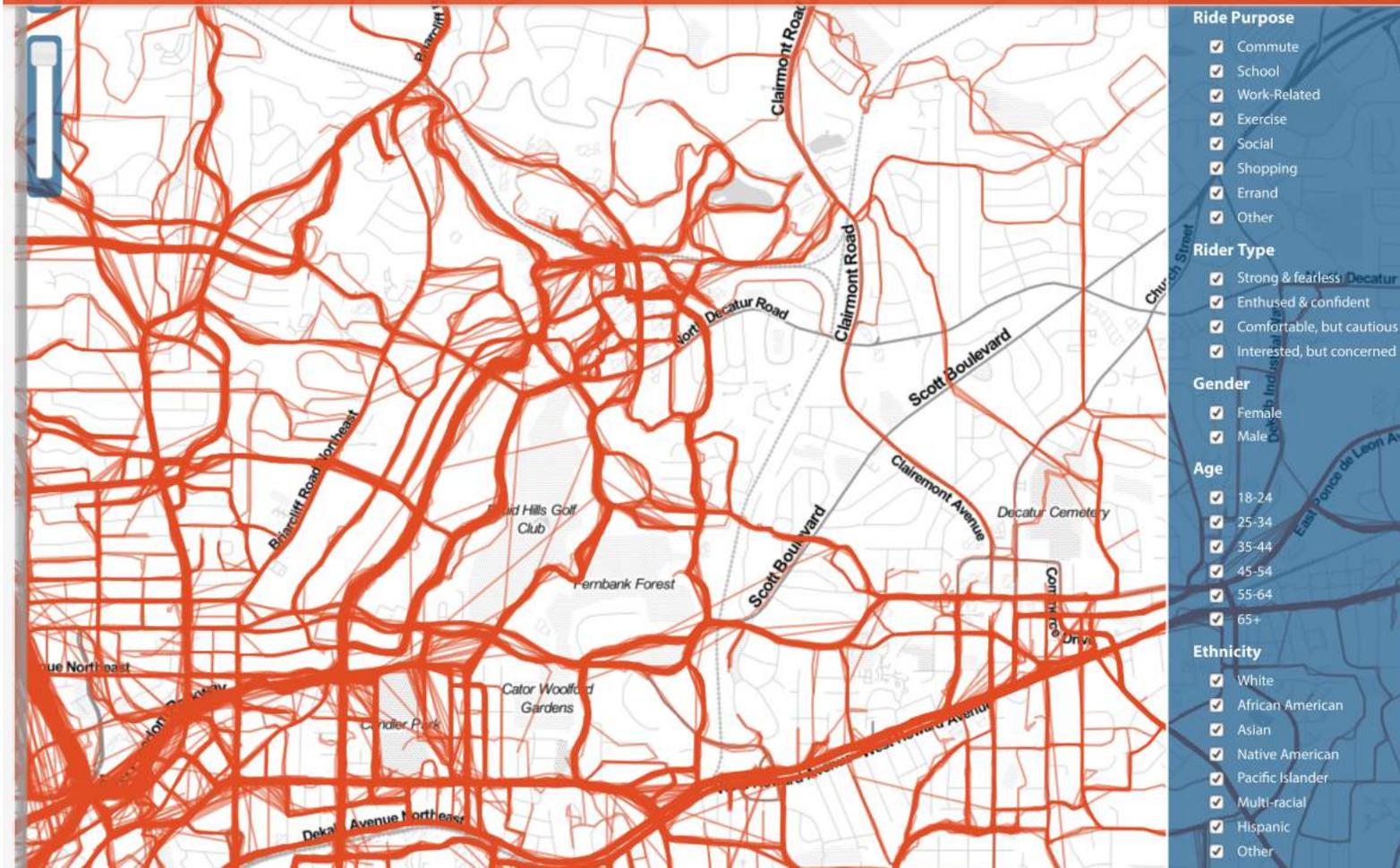
- One protected bike lane on one side of a street.

- Newly completed trail at Emory Clairmont Campus will connect to Toco Hills library & existing Mason Mill / Medlock trail network.

- Deepdene “Promenade” along Ponce was intended as a pedestrian walkway, but quickly became used as a protected multi-use trail.

# Cycle Atlanta

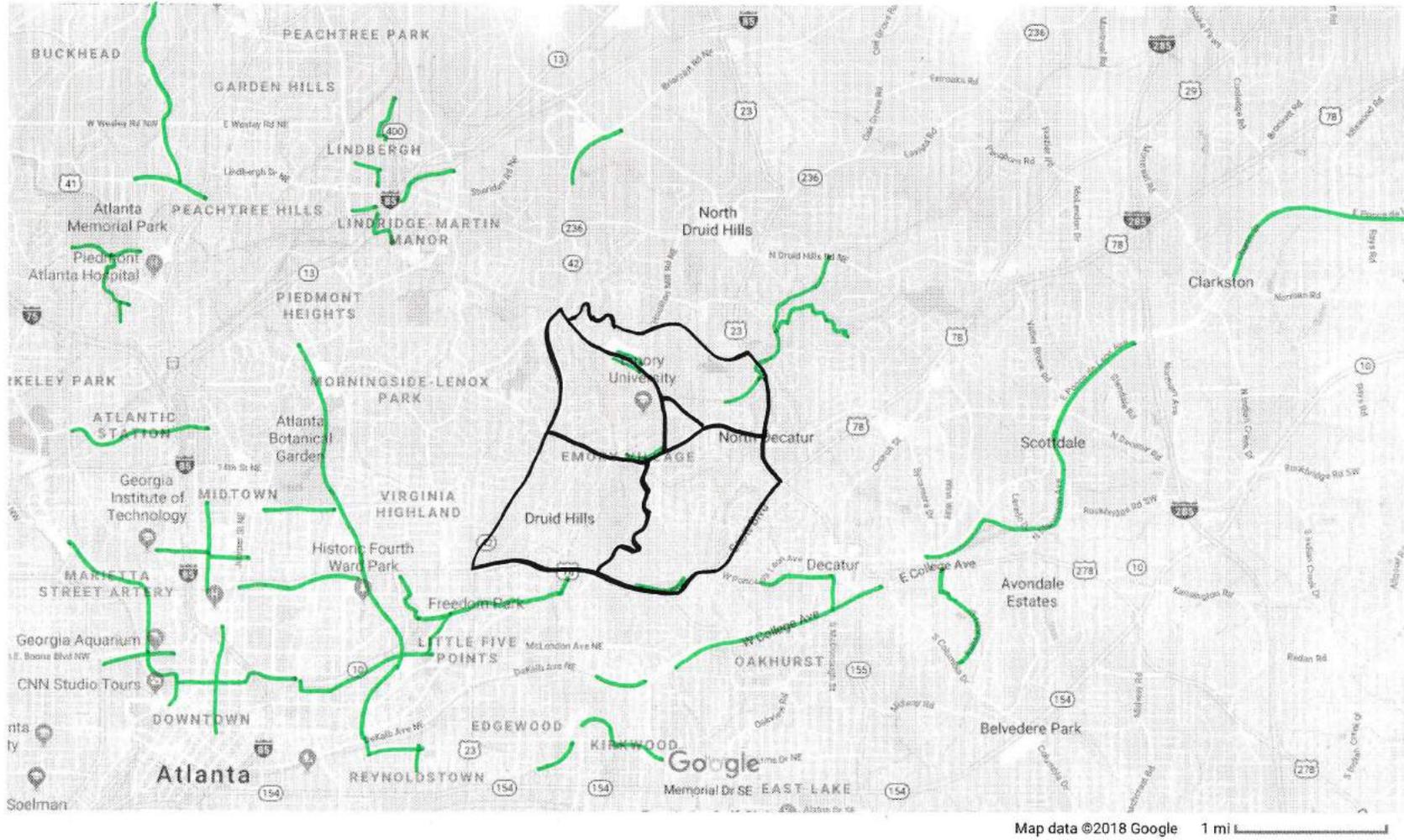
Mapping the ride to a better Atlanta.



“Cycle Atlanta” is a bicycle route data collection app developed jointly by GA Tech & the Atlanta Bicycle Coalition (ABC).

- Collected data is slanted heavily toward Atlanta.
- Although slanted, still informative for visualizing cycling patterns in DH (map center).

# Surrounding Bike Infrastructure



DH shown in map center (black).

Potential connections:

- Beltline & downtown Atlanta
- Decatur
- Candler Park
- Toco Hills
- Mason Mill & Oak Grove
- Point on Scott
- Virginia Highlands
- Morningside
- Executive Park & Brookhaven
- Lindbergh & Buckhead

Next Month:

A look at cycling & infrastructure design