Chapel Hill North-South BRT

Chapel Hill Town Council December 5, 2018



Agenda

- Review of 2016 LPA
- Work To-Date and Committee Recommendations
- Pedestrian & Bicycle Facilities
- Public Engagement
- Environmental Assessment Tasks
- Next Steps





The 2016 North-South Corridor LPA

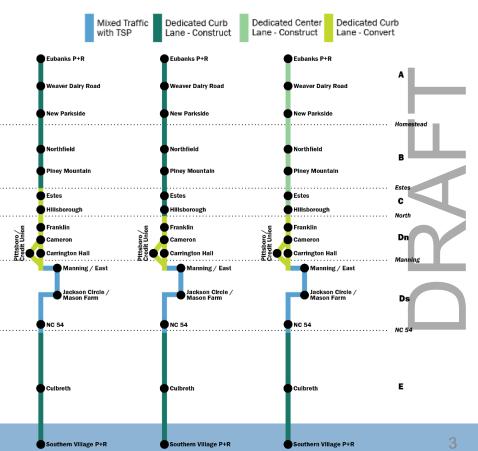


Dedicated Curb Lane - Construct a New Lane



Dedicated Center Lane - Construct a New Lane







Dedicated Curb Lane - Convert Lane from Existing Use

Work To-Date and Committees' Recommendations



Process to Approve the Revised LPA

The revised LPA goes to the Technical Committee, who makes a recommendation to the Policy Committee.

STEP

The revised LPA goes to the Policy Committee, who makes a recommendation to the Chapel Hill Transit Partners.

STEP

Opportunity for the community to provide input on the LPA.

PUBLIC ENGAGEMENT

> The revised LPA goes to the Chapel Hill Transit Partners, who review the recommendations from the committees and the public. The Partners then make a recommendation for the LPA to go to the Town Council.

STEP

The revised LPA goes to Chapel Hill Town Council.

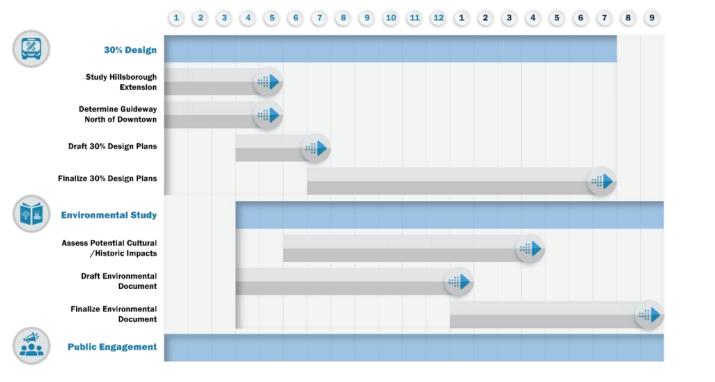
STEP



Technical and Policy Committees



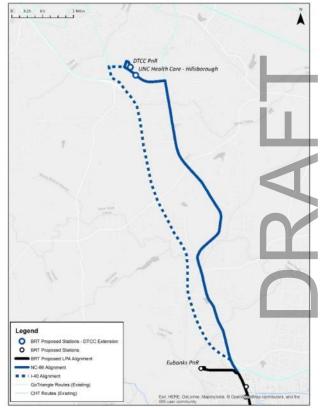
NEPA and 30% Design Schedule 2018 2019



Chapel Hill TIANSIT 4

Extension to Durham Technical Community College

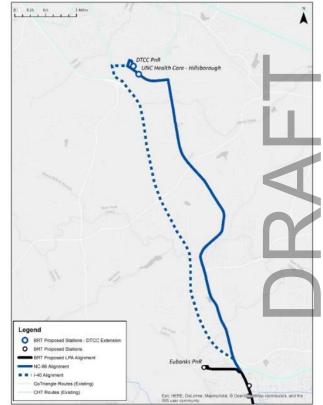
- Discussion participants
 - Chapel Hill Transit
 - GoTriangle
 - Orange County
 - Town of Hillsborough
 - DHCH MPO





Extension to Durham Technical Community College

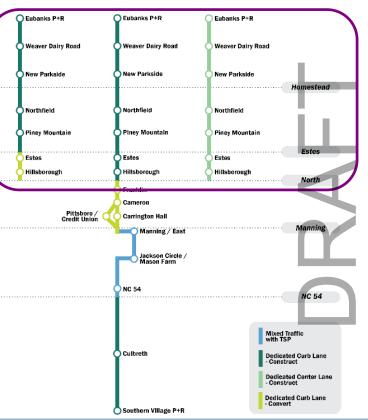
- 6.7-mile BRT extension from Eubanks P&R to DTCC
- 2 new BRT stops
 - UNC Healthcare Hillsborough Campus (2 platforms)
 - DTCC Park-and-Ride (1 platform)
- Committees' Recommendations
 - Eliminate DTCC Extension
 - Ridership gain does not justify capital or operating and maintenance costs
 - Pursue opportunities to improve Route 420 as local funding becomes available
 - Maintain 2016 LPA service plan





Northern Guideway Options

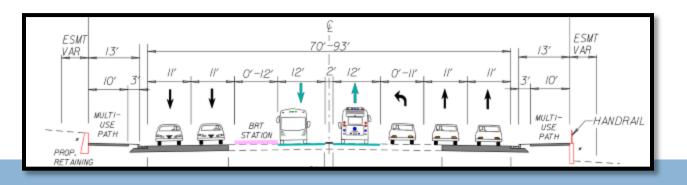
- North Street to Eubanks Road
- 3 segments / multiple options
- Eubanks Road: Caraway Village
- Comparison matrix
- Bike & ped considerations
- Additional traffic analysis in PE





Center Running Guideway Option

- Eliminate Center Running Guideway
 - Consistent curbside guideway for the entire route
 - Less roadway widening at signalized intersections
 - Curbside used by other buses
 - Better access with center turn lane

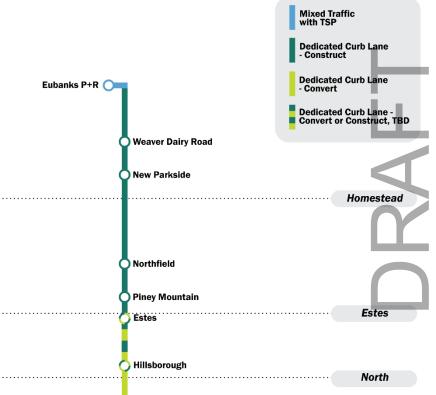




DRAF

Northern Guideway Options: Recommendations

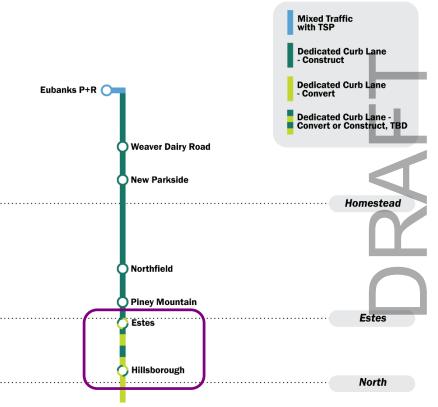
- Eubanks Road
 - Mixed Traffic
- Estes Drive to Eubanks Road
 - Construct Curbside Guideway
- Downtown to Estes Drive
 - Evaluate Convert Curbside and Construct Curbside Guideway





Dedicated Curb Lane – Convert Option

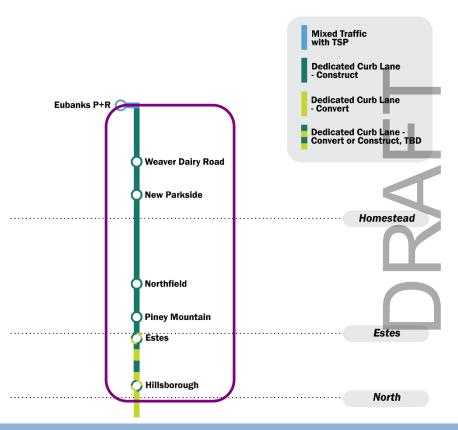
- Consider from Downtown to Estes
 - Reduction of one travel in each direction
 - Longer signal delays
 - Can narrow travel lanes
 - Maintains center turn lane for access
 - Shorter pedestrian crossing length
 - Lower capital cost than construct
 - Reduced ROW
 - No parking impacts
 - Multi-use path





Dedicated Curb Lane – Construct Option

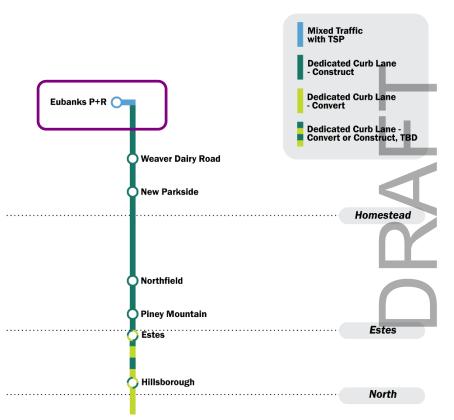
- Consider from Downtown to Estes
- Recommend from Estes to Eubanks
 - Widening towards median to retain outside curb & gutter
 - Center turn lane for access
 - Keep existing right turn lanes
 - Narrow travel lanes to 11'
 - Maintains current traffic capacity
 - Longer distance to cross the road
 - Intersection improvements for active transportation





Eubanks Road

- Recommend Mixed Traffic
 - From MLK, Jr. Blvd to Park & Ride lot (0.6 mi)
 - To be widened by Caraway
 Village developer
 - Build out traffic volume too high to convert lanes
 - BRT could use westbound right turn lane in future





Pedestrian & Bicycle Facilities



Bicycle and Pedestrian

Multi-use path

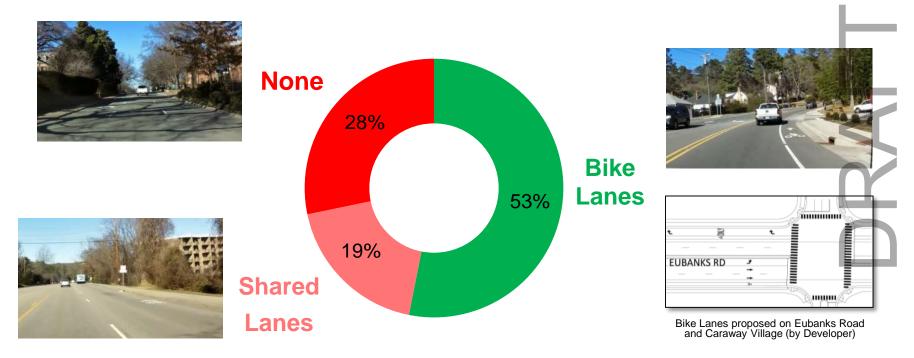
- Separates active transportation from vehicles
- Removes (most) bicycles from roadway
- Can narrow travel lanes to 11'
- Maintains the most existing curb & gutter
- Lower cost
- Intersection improvements for safety
- Items to be considered

DRAF



Existing Bike Facilities

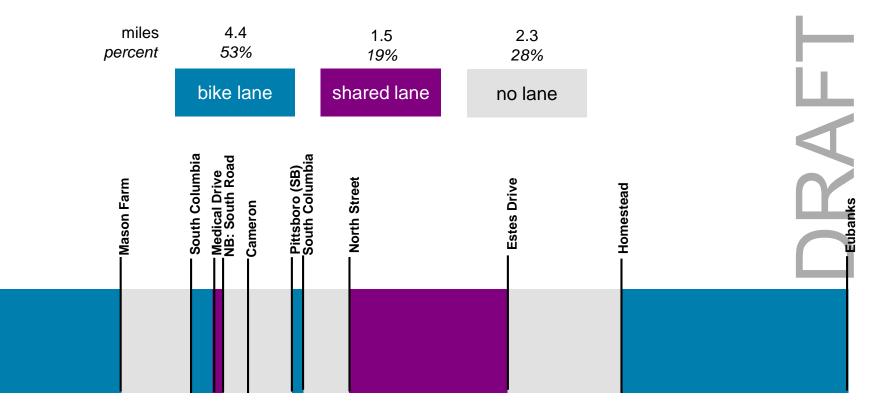
N-S BRT Route: Southern Village to Eubanks Park & Ride





Existing Bike Facilities

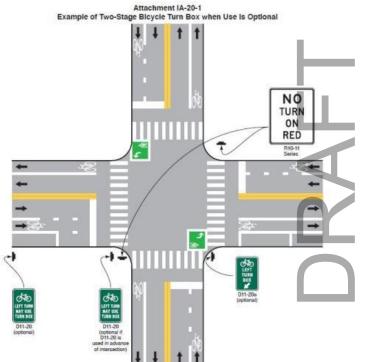
N-S BRT Route: Southern Village to Eubanks Park & Ride



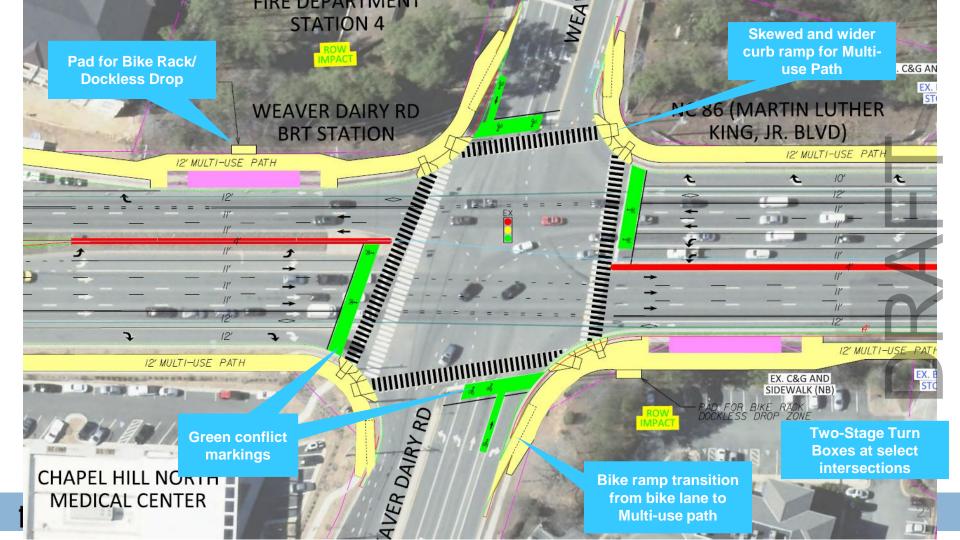
Market Street

Bicycle and Pedestrians Items to Consider

- Bike ramps
- Refuge islands
- Wide medians
- Green conflict pavement marking
- 2-way cycle track
- Separated bike path and sidewalk
- Two-stage turn box
- Pad for bike rack or dockless bike drop

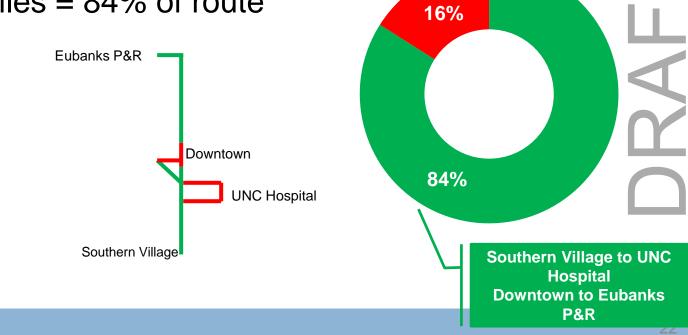






Bike Opportunities

- Potential for 2.5 mile increase
- 6.9 of 8.2 miles = 84% of route



UNC Hospital Downtown



Recommendations Summary

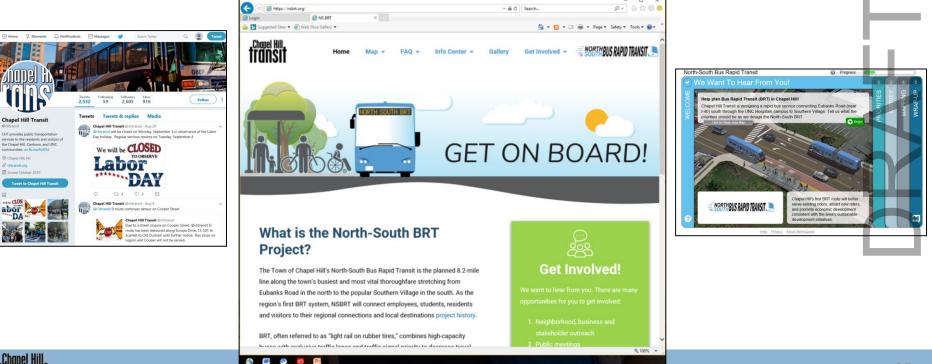
- Eliminate DTCC extension
- Eliminate Center Running guideway option
- BRT in Mixed Traffic on Eubanks Road
- Eubanks to Estes Road
 - Construct dedicated curb lane
- Estes Road to North Street
 - Construct and Convert Curbside options to be evaluated in EA
- Multi-use path for active transportation
 - With intersection improvements







Media / Social Media / MetroQuest / Website Update





- Key Stakeholder / Neighborhood / Local Business / University Outreach
 - Continuing outreach over the next several months
 - Includes small group and pop-up meetings









- Corridor-wide open house & virtual meetings
 - October 22, 5:00 7:00 PM: Christ United Methodist Church (Chapel Hill)
 - October 23, 11:00 AM 1:00 PM: Chapel Hill Public Library
 - October 23, 5:00 7:00 PM: Orange United Methodist Church (Chapel Hill)



Environmental Assessment Tasks



NEPA Analysis

- Lags behind design
- Design elements must be set project footprint defined
- Key design elements that impact EA:
 - Station locations
 - Guideway design
 - Construction limits
 - Traffic and access
 - Parking





Key EA Tasks

- Annotated outline
- Section 106 coordination
- Environmental analysis
- EA document
- Public hearing/response to public comments
- FONSI

DRAFT



Next Steps



Next Steps

- Council resolution on the revised Locally Preferred
 Alternative
- Complete 30% design
- Begin Environmental Assessment





Recommendations Summary

- Eliminate DTCC extension
- Eliminate Center Running guideway option
- BRT in Mixed Traffic on Eubanks Road
- Eubanks to Estes Road
 - Construct dedicated curb lane
- Estes Road to North Street
 - Construct and Convert Curbside options to be evaluated in EA
- Multi-use path for active transportation
 - With intersection improvements

