

Thursday, February 18, 2016, 1:00pm
Walnut Creek Wetland Center
950 Peterson Street

RETREAT AGENDA

I. Introductions

II. Approval of Minutes from January 25, 2016 meeting

III. Public Comments

This is an opportunity for public comment on items or issues that are otherwise not on the agenda. Please limit comments to three minutes per speaker.

IV. Bicycle Program Review (60 minutes)

[Link to State of Bicycling in Raleigh report](#)

- CMAQ Project Review
- LAB Bicycle Friendly Community Feedback
- Draft BikeRaleigh Plan Update
- Bike Month Activities
- Funding Projections

V. Pedestrian Program Review (45 minutes)

[Link to Comprehensive Pedestrian Plan](#)

- Review of Sidewalk Projects
- Update on Sidewalk Microgap Prioritization
- Funding Projections

VI. Break & Commission Photo (15 minutes)

VII. Comprehensive Project Review (30 minutes)

- Review of Prioritization Criteria
- Review of upcoming Transportation Projects

VIII. Committee Breakouts (60 minutes)

- Review of adopted 2015-2016 Work Plan
- Development of ideas for 2016-2017 Work Plan



DRAFT Meeting Minutes –January 25, 2016

The City of Raleigh Bicycle & Pedestrian Advisory Committee met on Monday, January 25, 2016 at 6:00 p.m. at the Raleigh Municipal Building, 222 W. Hargett Street, Raleigh, NC with the following members present:

Commission Members:

Amy Simes, Chair
Paul Nevill, Vice Chair
Evan Brigham
Susan Hatchell
Dan Howe
Harry Johnson
Aaron Peeler
Rebecca Proudfoot
Mary Sell

Staff:

Eric Lamb, Transportation Planning Manager
Mukund Moghe, Project Engineer
Sylvester Percival, Project Manager
Bynum Walter, Senior Planner
Susan Wilson, Bicycle & Pedestrian Program Manager
Teresa Young, Administrative Support

Absent:

Seth Palmer (excused)

I. Introductions

Ms. Simes called the meeting to order at 6:00 pm and asked everyone to introduce themselves.

II. Approval of Minutes

Mr. Nevill stated that the December 14th minutes should be corrected to reflect that the Commission combined the November and December meetings into one meeting in December for the calendar for 2016. Mr. Howe moved for approval of the amended minutes which was properly seconded by Mr. Johnson and passed by unanimous voice vote.

Mr. Johnson moved to amend the agenda to add a section for board comments after new business which was properly seconded by Ms. Hatchell and passed by unanimous voice vote.

III. Public Comments

Ms. Molly Stewart addressed the Commission once again to talk about the City hosting an open streets event. Ms. Stewart discussed a proposed route for the open streets event and stated she plans to attend a City Council meeting on February 16th to present the idea. Ms. Stewart requested that the Commission takes on hosting the event. The Commission discussed holding a joint bicycle and pedestrian planning committee meeting to talk about the event and to coordinate scheduling a date for it.

Ms. Kristy Jackson spoke about the pavement marking projects that took place in late November of last year. Ms. Jackson thanked the City staff for taking on the project and questioned the Commission regarding pedestrians using the bike lanes during the recent inclement weather event. Ms. Jackson stated she believed the sharrows that were installed have no benefit.

IV. Staff Reports

City Project Updates: Ms. Wilson stated that the CMAQ projects are being wrapped up and that there are only three minor items to complete that will be done the next day. Ms. Wilson added that the signal work on the Glen Eden loops is still being completed.

Mr. Johnson inquired about a cross section on Wilmington and Salisbury streets between Jones Street and Lane Street and how the pavement marking stops for a block and continues. Ms. Wilson responded that it was due to the occupant of that section of the street.

Mr. Nevill inquired about the lane usage on Hillsborough Street at the 2300 block where parking lanes were being used and they were marked as closed off during construction. Ms. Wilson said she will follow up on the issue.

City Council Updates: Ms. Wilson announced that the Council had adopted the new bike lanes into the traffic code.

V. Committee & Member Reports

Chair's Report: Ms. Simes reported she attended the No Hand King documentary and was impressed by it. She announced that the City has gotten a grant to fund a part time position in the Parks, Recreation and Cultural Resources department that is evaluating walkability throughout neighborhoods and trails. Ms. Simes expressed interest in having this position coordinate with transportation planning staff.

Community Outreach Committee: Mr. Nevill stated the Committee held a meeting on January 21st and discussed upcoming presentations to Citizen Advisory Councils by Committee members. Mr. Nevill stated that the Capital Bike Ride is scheduled for May 6th.

Bicycle Planning Committee: Mr. Johnson reminded everyone that the comments for the BikePlan Update are due by January 31st. Mr. Johnson reiterated the Committee's continued discussion of parking in bike lanes and stated the committee would like staff to collect data on this to determine what will happen in these areas. Mr. Johnson also stated the Committee discussed people using bike lanes to pile up leaves and snow.

Pedestrian Planning Committee: Mr. Peeler stated that the Committee discussed mid-block crossings and that there is a police officer in Durham that the Commission could contact to invite to speak about what Durham is currently doing for pedestrian safety.

Ms. Kristy Jackson addressed the Commission and stated that she works at North Carolina State University's Institute for Transportation Research and Education and that they are currently working on a program to partner with police officers to work on a study involving midblock crossings. Ms. Jackson stated she would be happy to share this information at an upcoming Commission meeting.

Joint Bicycle & Pedestrian Planning Committee: No report.

VI. Old Business

Ms. Young reminded the Commission that the meeting calendar for 2016 with the revised meeting dates needed to be approved. Mr. Johnson made a motion to approve the meeting schedule, which was properly seconded by Mr. Brigham and passed by unanimous voice vote.

VII. New Business

Sidewalk Project Review: Mr. Mukund Moghe of the Public Works department presented to the Commission information on new sidewalks planned on Crabtree Boulevard, Spring Forest Road, Millbrook Road and New Hope Road. Mr. Moghe gave an overview of the planned sidewalk installations that will connect to existing portions of the sidewalk network. Mr. Moghe stated the right of way acquisition for the projects will begin in August of this year and the project will begin in January of 2017 and hopefully be complete by October 2017. The Commission inquired about signal upgrades and utility relocations. Mr. Moghe stated there will be no utility relocations. Mr. Johnson made a motion to endorse the project which was seconded by Mr. Howe and passed with unanimous voice vote.

Cameron Village + Hillsborough Street Small Area Plans: Ms. Bynum Walter of the Planning department gave an overview of the small area plans. Ms. Walter stated there were nine planning strategies discussed as part of the plan and presented the information regarding the bicycle and pedestrian areas of the plan. Ms. Walter stated a lot of the improvements would distribute and calm traffic through the area.

Mr. Howe recommended making Van Dyke an obvious way to walk if that is implemented. Mr. Nevill made a motion to support the plan which Mr. Howe made an amended motion to support the plan and discuss recommendations based on what the Commission discussed at the meeting. Ms. Sell seconded the amended motion which was passed by unanimous voice vote.

Yonkers Road Improvement: Mr. Sylvester Percival of the Public Works department presented to the Commission improvements for a project along Yonkers Road that considered multiple alternatives. The Commission discussed connections on Ratchford and Atlantic due to greenway connections and potential issues with crossing driveways. The Commission also inquired about signage and Mr. Percival responded that will be looked into. Mr. Howe made a motion that the Commission support the project based on what staff recommends and that pedestrian improvements on Capital Boulevard and New Bern Avenue be looked into as part of the project. Mr. Johnson seconded the motion which was passed by unanimous voice vote.

VIII. Board Comments

Mr. Howe inquired about the feedback the city staff has been getting regarding the CMAQ project. Ms. Wilson responded that some has been negative but most of the feedback has been centered on downtown as well as Glen Eden and Tarboro.

The Commission discussed the Hillsborough and Cameron Village small area plan and the differences between the small area plan and the BikePlan Update. Mr. Howe expressed it would be beneficial for the bike plan to have a higher level of detail to be consistent.

The Commission also discussed inclement weather and how to handle facilities during this kind of event. The Commission agreed it would be a good idea to make public affairs aware of how to transmit information regarding getting transit stops shoveled or sidewalks cleared.

IX. Announcements

Mr. Nevill announced that on March 19th there will be a St. Patty's Run Green 8k run that will take place at the Raleigh Beer Garden.

Mr. Johnson reminded everyone of the next Bicycle Committee meeting on February 8th.

With no further business, the meeting adjourned at 7:50 pm.

Respectfully submitted,
Teresa Young

Transportation Project Updates

Major Street Improvements		
Construction		
Leesville Rd Widening	Widen street to 4 lanes with curb & gutter, sidewalks, striped bike lanes, and median refuges from I-540 to New Leesville Blvd	Complete
South/Lenoir Two-Way Conversion	Convert remaining one-way portions of Lenoir St and South St to two-way operation from S. Saunders St to East St	Starting construction, late Fall 2016 completion
Sandy Forks Rd Widening	Widen to 3-Lane with curb, gutter and sidewalks from Six Forks Rd to Falls of Neuse Rd	Starting construction, complete by Summer 2017
Design		
Buck Jones Rd Widening	Widen street to 4 lanes with curb & gutter, sidewalks, striped bike lanes, and median refuges from Farmgate Rd to Xebec Way	In final design and r/w acquisition Construction to begin in early 2016
Peace St West Streetscape	Roadway improvements, sidewalk repairs/replacement; street trees, utility cleanup	City Council public hearing on design late 2015, construction to start Summer 2016
Hillsborough St Phase II	Streetscape to 2-lane, median-divided, bike lanes, and roundabouts from Gardner St to the Rosemary/Shepherd Sts.	95% design complete; ROW under way
Mitchell Mill Rd Widening	Widen street to 4 lanes with curb & gutter, sidewalks, striped bike lanes, and median refuges from US 401 to Watkins Rd	
Fox Rd Widening	Widen to 2-lanes w/ center turn lane, bicycle lanes, curb and gutter, sidewalk on both sides from Spring Forest Rd to Sumner Blvd	Public meeting held September 29
New Bern Ave Improvements	Install sidewalks/multi-use paths and transit enhancements from Tarboro Rd to Sunnybrook Rd	Design underway; construction 2017
Oberlin Rd Streetscape	Enhanced pedestrian and bicycle facilities, lighting and landscape features from Clark Ave to Bedford Rd.	RFQ issued; construction 2017
New Hope Church Rd Widening	Widen to 2-lanes w/ center turn lane, bicycle lanes, curb and gutter, sidewalk on both sides from Green Rd to Deana Lane	Design underway; construction 2017
Pleasant Valley Rd Widening	Widen to 2-lanes w/ center turn lane, bicycle lanes, curb and gutter, sidewalk on both sides from Duraleigh Rd to Glenwood Ave	
Yonkers Rd Improvements	Widen to 2-lanes w/ bicycle lanes, curb and gutter, sidewalk on one side from Capital Blvd to New Bern Ave	Design underway; construction 2018
Old Wake Forest Rd Widening North	Widen to a 4-lane median-divided section with curb and gutter, sidewalks, bicycle lanes, and streetlights from Litchford Rd to Capital Blvd	RFQ issued
Tryon Rd Widening (Part C)	Widen to a 4-lane median-divided section with curb and gutter, sidewalks, bicycle lanes, and streetlights from Lake Wheeler Rd to Par Dr	
Rock Quarry Rd Widening (Part A)	Widen to a 4-lane median-divided section with curb and gutter, sidewalks, bicycle lanes, and streetlights from Olde Birch Rd to Sunnybrook Rd	RFQ on hold pending discussions with NCDOT related to bridge replacement with I-40 widening project

Transportation Project Updates

Studies		
Six Forks Corridor Study	Long range multimodal transportation study and streetscape plan from Ramblewood Dr to Sandy Forks Rd	Draft Corridor Plan to be presented at City Council worksession in February
Bike Share Feasibility Study & Implementation Plan	Analysis of the bike share concept and will determine the likely success of a bike-sharing program in Raleigh.	Presentation on O/M funding/sponsorship update to City Council at Feb worksession
Lumley/Westgate Rds. Corridor Improvements	Install sidepath (Lumley Rd); widen shoulders for bike lanes (Westgate Rd); and install bike lanes/multi-use path (Ebenezer Ch Rd) from Brier Creek Pkwy to	Feasibility study almost complete, Council presentation in December
West St Extension Study	Extend West St from Martin St to Cabarrus St under NCRR	NEPA study nearing completion
Transportation/Area Plans		
Bicycle Plan Update	Update the 2009 Comprehensive Bicycle Plan	Draft Plan open for public comment; to be presented at City Council worksession in February
Cameron Village/Hillsborough St Small Area Plans	Land use and transportation in the study between Wade Ave and Hillsborough St, and between Chamberlain St and St Mary's St	Draft plan nearing completion, expected release in February
Raleigh-Cary Rail Crossing Study	Examine future street network in east Cary and west Raleigh with respect to a future sealed rail corridor scenario. Joint project with CAMPO, Town of Cary, TTA, and NCDOT Rail.	Draft report/recommendations being presented at Feb. meeting of West CAC; City Council presentation for approval/endorsement in Spring 2016
Southern Gateway Corridor Study	Long range area study from South St to just south of Tryon Rd (formerly S. Saunders/Wilmington St Corridor Study)	Draft plan nearing completion, expected release in Spring 2016
Avent Ferry Corridor Study	Long range area study from Western Blvd. to Gorman	Planned to start Spring 2016
Major Traffic Calming Projects (Neighborhood Streetscapes)		
Construction		
Glascock St	Add median islands, curb extensions, and new sidewalk on north side west of State St from Norris St to Raleigh Blvd	Starting construction
Kaplan Drive	Add bike lanes, sidewalks, curb extensions, bulb-outs, median islands, and speed humps from Melbourne Rd to Kent Rd	Nearing completion
Milburnie Rd	Add curb extensions, medians, and bike infrastructure from Raleigh Boulevard to Chatham Lane	Design underway
Design		
Cross Link Rd South	Dandridge Rd to Garner Rd	Plan adopted by Council
Currituck Drive	Lassiter Mill Rd to Tyrrell Rd	Plan adopted by Council
Town & Country Rd	Millbrook Rd to Lead Mine Rd	Plan adopted by Council

Transportation Project Updates

Greenway Improvement Projects		
Design		
Crabtree Creek Trail W Extension	Lindsey Dr to Umstead Park - 4 miles	Under design; recommended for additional \$1.5M funding from CAMPO LAPP Program FFY17
Walnut Creek trail - Trailwood Segment	Trailwood Dr. bridge replacement/pedestrian bridge	Starting construction soon; completion late 2016/early 2017
	Trailwood Dr. to Lake Raleigh trail on Centennial Campus	Design starting soon; recommended for funding from CAMPO LAPP Program FFY17
Rosengarten Trail	Cabarrus St to S. Saunders/Lake Wheeler at Rocky Branch Trail - 0.5 miles	Under design
Bicycle Projects		
Construction		
Bicycle Pavement Marking Project	Design and install 27 miles of bicycle facilities Citywide (FY13 CMAQ Grant Project)	Mostly complete
City Resurfacing Program	Resurface City-maintained streets and restripe per the Bike Plan	Draft list under review
NCDOT Resurfacing Program	Resurface State-maintained streets and restripe per the Bike Plan	
Design		
Leesville Rd SRTS	Construct sidewalks & ped intersection improvements, stripe bike facilities on Country Trl, Oneal Rd, & Pride Way	Design underway; construction Summer/Fall 2016
Gorman St Cycle Track	Construct a two-way cycle track on Gorman St between Sullivan Dr and Hillsborough St	Design underway; construction late 2016/early 2017
Wake Forest/Blount/Person Corridor Restriping	Restripe Wake Forest Rd from Brookside to Person as 3-lane with bike lanes; restripe Person & Blount Sts as 2-lanes with bike lane (one-way)	
Blue Ridge Rd Ped/Bike	Construct sidewalks and bike facilities from Trinity Rd. to north of Reedy Creek Rd., including ped/bike accommodations over Wade Avenue	Consultant selection underway

Transportation Project Updates

Pedestrian Projects		
Construction		
Freedom Dr/Rhyne Court	Construct sidewalk from south of New Bern Ave to End of cul-de-sac	Under construction
Six Forks Rd	Construct sidewalks from Coleridge Dr to Wake Forest Rd (CMAQ Grant Project)	
Chapanoke Rd	Construct sidewalks, intersection improvements, and transit amenities from	
Clark Ave	Construct sidewalks from Woodburn to Bellwood on the north side	
Green Rd	Construct sidewalks from New Hope Church Rd to Spring Forest Rd on both sides	
I-40 Ped Retrofits, Part A	Construct sidewalks on Avent Ferry, Rock Quarry, and Buck Jones Rds bridges over I-40	
Downtown Ped Safety Improvements	Design and install pedestrian signals at several downtown intersections	
Capital Boulevard	Construct sidewalks and transit amenities from Spring Forest Rd to Old Wake Forest Rd on both sides	Starting construction
Design		
Bloodworth St	Construct sidewalks from Martin Luther King Jr. Blvd to Worth St on the east side	Design underway
Blount/Hoke/Person Sts	Construct sidewalks from north of Branch St to Bragg St	
Blue Ridge Rd	Construct sidewalk on the west side from Beryl Rd to Faber St	
Crabtree Boulevard	Construct sidewalks from Capital Blvd to Timber Dr on the south side	
I-40 Ped Retrofits, Part B	Construct sidewalks on Trailwood Dr. bridge over I-40	
New Hope Church Rd	Construct sidewalks from Atlantic Ave to Wake Forest Rd on both sides	
Poole Rd	Construct sidewalks from Donald Ross Drive to Sunnybrook Rd on the north side	
Rock Quarry Rd	Construct sidewalks from MLK Blvd to Bart St on the east side; also includes Rock Quarry Rd/Blazing Star Way intersection improvements	

Transportation Project Updates

Design (cont'd)		
Capital Boulevard	Construct sidewalks from I-40 Ramps to Brentwood Rd on both sides	Schedule pending
E. Millbrook Rd	Construct sidewalks from Atlantic Ave to Capital Blvd on the north side	
Lake Wheeler Rd	Construct sidewalks from Maywood Ave to Centennial Pkwy; asphalt path on the west side	
Maywood Ave	Construct sidewalks from S. Saunders St to Lake Wheeler Rd on both sides	
Millbrook Rd	Construct sidewalks from Lead Mine Rd to Bennettwood on the south side	
New Hope Rd	Construct sidewalks from Capital Blvd to Wallingford Dr on both sides	
Oakwood Ave	Construct sidewalks from Hill St to Raleigh Blvd on the north side	
Raleigh Boulevard	Construct sidewalks from Crabtree Creek Bridge to 350' north of Yonkers Rd on both sides	
Spring Forest Rd	Construct sidewalks from McHines Place to Capital Blvd on both sides	
Wade Ave	Construct sidewalks from Hobson Court to Daniels St on both sides	
Wake Forest Rd	Construct sidewalks from Creekside Drive to Georgetown Rd on the west side	

COMMUNITY OUTREACH COMMITTEE MEETING MINUTES

DATE: February 10, 2016

PRESENT: Evan Brigham, Paul Nevill

STAFF: Susan Wilson, Teresa Young

LOCATION: Raleigh Municipal Building, Room 305

START: 6:06 pm

Lake Lynn Community Ride

The Lake Lynn Community Center will host a bike safety event April 23rd. Mr. Brigham has spoken to Chris Nadeau, the event coordinator, and has volunteered BPAC to help out at the event.

CACs

Mr. Nevill and Mr. Brigham continue to make presentations to CACs. Paul had a presentation scheduled for the following night, the 11th at the South East CAC. Paul is working on getting presentations for East and Central. The committee discussed changing the format of their presentations after the bike plan has been adopted.

Tour de Brew

Mr. Brigham discussed the upcoming Tour de Brew event, taking place April 2nd. The event will be a social ride between 6 breweries, with proceeds benefitting both Oaks & Spokes and Water for Good.

Bike Month Events

The following events for bike month are planned:

- Bike Art Show – May 6th
- Capital City Bike Ride– May 6th
- Raleigh CAT
- Raleigh Roots Ride
- Bike In Movie
- Ride of Silence– May 18th
- Bike to Work Day – May 20th

Oaks & Spokes are still finalizing the dates for their events.

Ms. Wilson announced that the new outreach coordinator will be starting on February 15th.

END: 6:52 pm

BICYCLE PLANNING COMMITTEE MEETING MINUTES

DATE: February 8, 2016

PRESENT: Harry Johnson (Chair), Dan Howe, Rebecca Proudfoot, Amy Simes

STAFF: Susan Wilson, Jason Myers

LOCATION: Raleigh Municipal Building, Room 305

START: 6:02 pm

Jason Myers presented to the Committee on the public comments received on the Draft BikeRaleigh Plan. He provided 2 handouts: one, a spreadsheet of all public comments received, and two, a summary of what he identified as major and minor questions- themes from the comments received or questions that were raised. Committee members discussed the questions Mr. Myers presented, including whether to identify a default facility type for overpasses/bridges/interchanges, use of new terminology included in draft plan, and including Dix Park as a facility opportunity in the Plan.

Mr. Myers will include the Committee's discussion into the recommended edits to the Draft BikeRaleigh Plan.

END: 7:36 pm



PEDESTRIAN PLANNING COMMITTEE MEETING MINUTES

DATE: February 4, 2016

PRESENT: Aaron Peeler, Mary Sell, Susan Hatchell, Amy Simes

GUEST: Kristy Jackson, ITRE, NC State University

STAFF: Eric Lamb, Susan Wilson

LOCATION: Morning Times, 10 E. Hargett St.

START: 6:13 pm

Kristy Jackson, Research Associate with ITRE at NC State University attended to explain an upcoming ITRE research project. ITRE will be studying pedestrian yield enforcement, with their research area being 5 identified locations within Raleigh. The identified locations are at existing crosswalk locations between trip generators, along 2 lane streets with speed limits of 35 mph or less. ITRE will be working with officers with the Raleigh Police Department, who will operate as teams of 2 to document motorists' compliance of yielding to pedestrians within a crosswalk. The research project is expected to be 6 months in length. Committee members asked Ms. Jackson if she/ITRE would be willing to share their findings with BPAC. She said she would. Ms. Jackson also shared findings of pedestrian count programs she has been working on statewide and highlighted some of the findings from her summary reports.

ACTION ITEMS: None

END: 7:08 pm

Adopted BPAC 2015-2016 Work Plan

General Commission Initiatives:

- Coordinate and participate in the annual Triangle Bicycle & Pedestrian Workshop
- Provide input on the proposed Comprehensive Plan Update
- Oversee the development and approval of the Bicycle Plan Update
- Monitor Citywide bicycle and pedestrian crash data
- Promote the City's application for Walk Friendly Community designation
- Promote improving the City's current bronze-level Bike Friendly City designation

Community Outreach Committee:

- Partner with local schools, government agencies, and advocate groups to develop a Safe Routes to School Program, and promote Bike to School and Walk to School activities.
- Participate in NCDOT's "Watch for Me, NC" Campaign to promote bicycle and pedestrian safety messages citywide
- Improve the public image of BPAC by increasing, promoting, and expanding:
 - interest in the BPAC social media (Facebook page, bikeraleigh.org blog)
 - public participation and interaction with bike/pedestrian initiatives
 - BPAC events and programs that benefit citizens
 - education for the public on sidewalk funding processes
- Visit and present to neighborhood CAC's throughout the year
- Develop and host Bike Month Activities and Events
- Promote the Raleigh Bicycle Benefits Program via events and regular rides
- Follow up with organizations and participants to sustain involvement

Bicycle Planning Committee:

- Develop and expand the bicycle parking program
- Lead the oversight committee for the Bicycle Plan Update, and work with City staff and consultants to update and adopt a new plan
- Develop an On-Road Bicycle Wayfinding & Signage Plan that enhances existing infrastructure, improves the usability of the bicycle network, and encourages short bicycle trips
- Promote the implementation of a bike share program in Raleigh by advocating for implementation funding and sponsorships

Pedestrian Planning Committee:

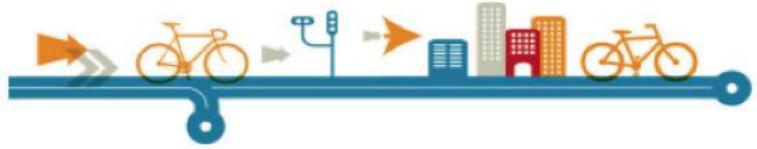
- Promote the WalkRaleigh brand; encourage approval for installation along all pilot corridors and expansion to additional corridors
- Encourage expanding the use of leading pedestrian interval signals to additional high traffic locations
- Advocate for more targeted crosswalk enforcement campaigns throughout the City
- Coordinate access to transit initiatives with GoRaleigh and GoTriangle to promote sidewalk improvements and advocate for bus stop amenities (benches, shelters, bike parking, etc.) with particular focus on the R-Line Service
- Coordinate with City staff to develop a sidewalk maintenance outreach campaign that may include:
 - Conducting pedestrian safety audits to identify needed repairs
 - Promoting SeeClickFix reporting for sidewalk repairs
 - Reporting sidewalk maintenance expenditures by location
- Review the City's Mid-Block Crossing Policies, including:
 - Technology (HAWK Signals, RRF Beacons, Medians)
 - Proposed locations and prioritization
 - Communications with the public
- Advocate for the implementation of the City's various corridor studies
- Promote October as "Walktober" and conduct a pedestrian awareness event and invite elected officials, transportation professionals and the general public to experience crossing a high volume roadway in a wheelchair, pushing a stroller, or walking a dog
- Conduct an education session with City staff on the development review process to understand how pedestrian access is regulated and approved

Joint Bicycle & Pedestrian Planning Committee Items:

- Promote implementation of the NCDOT "WalkBike, NC" master plan in Raleigh
- Monitor NCDOT Complete Streets implementation to ensure future street projects are designed and constructed for all modes
- Monitor Unified Development Ordinance implementation and promote bicycle and pedestrian friendly policies and standards
- Continue coordinating with the Parks, Recreation & Greenways Advisory Board on greenways and special event impacts



BICYCLE FRIENDLY COMMUNITY FEEDBACK



RALEIGH, NC

Fall 2015

Our Bicycle Friendly Community review panel was very pleased to see the current efforts and dedication to make Raleigh a safe, comfortable and convenient place to bicycle.

Below, reviewers provided recommendations to help you further promote bicycling in Raleigh. **Key recommendations are highlighted in bold.** Underlined phrases are links to further information and resources online.

We strongly encourage you to use this feedback to build on your momentum and improve your community for bicyclists.

There may also be initiatives, programs, and facilities that are not mentioned here that would benefit your bicycling culture, so please continue to try new things to increase your ridership, safety, and awareness.

The cost of bicycle facilities and possible funding options are discussed on the last page of this report.

RECOMMENDATIONS

Engineering

Develop a design manual that meets current NACTO standards or endorse the NACTO Urban Bikeway Design Guide.

Continue to increase the amount of high quality bicycle parking throughout the community. Ensure

that people arriving by bicycle have a secure and legal place to lock their bikes at popular destinations.

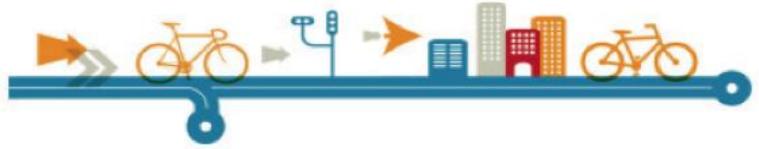
Regulations that require bike parking for major renovations of existing developments can secure private funding. Consider including provisions for assessing bike parking in communities that aren't currently slated for development or revitalization. See this model bicycle parking ordinance for guidance.

Increase road safety for all users by reducing traffic speeds. Lower the speed limit especially downtown, around schools, and in neighborhoods. Use traffic calming measures and low speed design principles to achieve high compliance rates. Speed has been identified as a key risk factor in road traffic injuries, influencing both the risk of a road traffic crash as well as the severity of the injuries that result from crashes. For instance, pedestrians and cyclists have a 90% chance of survival if hit by a car travelling at a speed of 20 mph or below, but less than a 50% chance of surviving an impact of 30 mph or above. Studies also generally report a positive association between traffic safety (perceived and/or measured) and walking and cycling, particularly among women. **Work with your Neighborhood Traffic Management Program and Streetscape program to increase the number of streets designed for speeds of 25 mph or less.**

Local reviewers expressed some dissatisfaction with the design, quality, and maintenance of on and off-street bicycle facilities and road surfaces. Consider ways



BICYCLE FRIENDLY COMMUNITY FEEDBACK



to better integrate maintenance for bicycle facilities into general road maintenance.

Education

Bicycle-safety education should be a routine part of education, for students of all ages, and schools and the surrounding neighborhoods should be particularly safe and convenient for biking and walking.

Work with your local bicycle groups or interested parents to expand the Safe Routes to School program to all schools. Click [here](#) for an exemplary bicycle safety curriculum designed for fourth and fifth grade students. For more information on Safe Routes to School, see the [National Highway Traffic Safety Administration's Safe Routes To School Toolkit](#) or visit www.saferoutesinfo.org. **If County control of the schools presents a barrier to implementing bicycle safety education in schools, work with the county or non-profits that work with county schools to determine how best to foster bicycle education efforts at schools.**

Continue efforts to expand adult bicycle education opportunities. Classes that teach skills that improve bike commuting can help people make what is possible practical. Education can also be helpful for adults who are recommended exercise by health care providers, check to see if any area doctors or hospitals are interested in partnering for education programming.

Ensure that there are bicycle education opportunities specifically for women, seniors, families and other specific demographic groups. By specifically targeting education opportunities to certain groups you can ensure that those groups are better reached and their specific concerns are addressed by the curriculum.

Encouragement

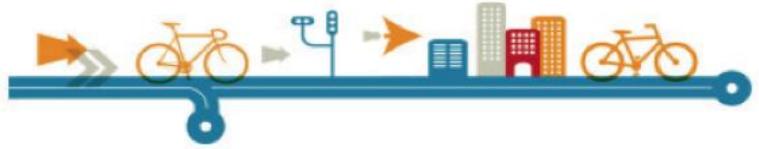
Create a 'Ciclovía' or [Open Streets](#) type event, closing off a major corridor to auto traffic and offering the space to cyclists and pedestrians. [See Open Streets in action](#). This event can also be a great place to engage people about improvements they would like in their community and barriers to biking more often that they experience.

Increase your efforts on Bike to Work Day and Bike to School Day. Ensure to widely advertise all bicycle-themed community events and programs. For ideas and more information, visit <http://bikeleague.org/bikemonth>.

Provide a variety of targeted bicycle events to engage seniors, minority populations, low-income populations, and other demographic groups that may benefit from non-traditional or group-specific bicycle events. Targeted events may help to encourage groups that have specific concerns about bicycling or



BICYCLE FRIENDLY COMMUNITY FEEDBACK



which have not previously been engaged in supporting bicycling improvements.

Launch a bike share system that is open to the public. Bike sharing is a convenient, cost effective, and healthy way of encouraging locals and visitors to make short trips by bike and to bridge the “last mile” between public transit and destinations. Learn more about bike share in the [United States](#) and current efforts to make bike share [more equitable](#).

Encourage more local businesses, agencies, and organizations to promote cycling to their employees and customers and to seek recognition through the Bicycle Friendly Business program. Businesses will profit from a healthier, happier and more productive workforce while the community will benefit from less congestion, better air quality, increased amenities and new destinations for cyclists, new and powerful partners in advocating for bike infrastructure and programs, and business-sponsored public bike events or classes. The League offers many tools to help promote the Bicycle Friendly Business program in your community.

Enforcement

Continue to ensure that police officers are educated on traffic laws as they apply to bicyclists and motorists and bicycling skills. Ensure

that law enforcement officers who are not certified or trained as bicycle patrol officers nevertheless have basic training or experience with bicycling in your community in order to foster great interactions between bicyclists and police officers.

Work with law enforcement to ensure that enforcement activities are targeted at motorist infractions most likely to lead to crashes, injuries and fatalities among bicyclists. Traffic enforcement activities should be data-based and responsive to behaviors that have been observed to lead to crashes, injuries, and fatalities.

Local reviewers indicated that they do not feel that bicyclists are respected by motorists in Raleigh. This may be addressed by public education efforts, enforcement targeted at motorists, and/or signage and lane markings that promote increased awareness of bicyclists. Increased bicycle infrastructure may also promote greater respect.

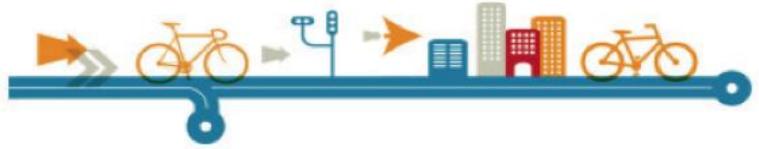
Evaluation & Planning

Congratulations on hiring a Bicycle & Pedestrian Program Manager. Ensure that the Program Manager is supported in their new role. See [this report](#) on the importance of Bicycle & Pedestrian program staff.

Continue efforts to update your 2009 bicycle plan to ensure that state-of-the-art bicycle facilities are included, and that infrastructure planning is



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complemented with encouragement, education, and enforcement programs to increase usage.

Conduct bicycle counts or surveys that capture the gender of bicyclists and potential bicyclists. If women ride significantly less than men, this gender gap can be addressed through infrastructure improvements, and targeted education and encouragement efforts. Learn more at bikeleague.org/womenbike.

Dedicate more staff time to bicycle planning and programming.

Comparing staffing levels to bicycle commuter data showed that larger bicycle and pedestrian staffs (per capita) are correlated with higher bike commuter levels. This shows that communities that make a serious commitment to bicycle planning see a greater return on investment than communities with fewer staff.

Adopt a Vision Zero plan to improve road safety for all road users. To learn more about Vision Zero, visit visionzeronetwork.org.

Work with other communities in North Carolina to ensure that communities that want to create streets that are safe for bicycling and walking have partners in the North Carolina DOT and legislature. Recent legislation has limited the ability of NCDOT and communities to support bicycling infrastructure.

COSTS AND FUNDING OPTIONS

Costs

Building a new roadway for motor vehicles can cost millions of dollars to construct, and many of the pedestrian and bicycle infrastructure facilities are extremely low-cost in comparison. Use [this database](#) to review up-to-date estimates of infrastructure costs of pedestrian and bicycle treatments from states and cities across the country.

Federal Funding

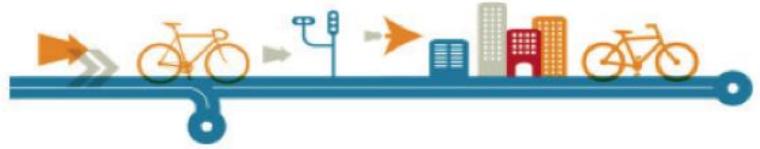
Since 1992 bicycle and pedestrian projects have been eligible for federal transportation funding. To learn more about what federal funds are available for bicycle projects, use Advocacy Advance's interactive [Find it, Fund it tool](#) to search for eligible funding programs by bike/ped project type or review the same information as a PDF [here](#).

State Funding

Biking and walking dollars aren't only available from the federal government. States can also have their own revenue sources that can be used to fund active transportation. Use this [report](#) and an [online tool](#) to explore your state's funding sources for bicycle and pedestrian improvements.



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Local Funding

Local governments can also create their own revenue streams to improve conditions for bicycling and walking. Three common approaches include: special bond issues, dedications of a portion of local sales taxes or a voter-approved sales tax increase, and use of the annual capital improvement budgets of Public Works and/or Parks agencies. Bicycle facility improvements can also be tagged on to larger projects to create economies of scale that results in reduced costs and reduced impacts to traffic, businesses, and residents. For example, if there is an existing road project, it is usually cheaper to add bike lanes and sidewalks to the project than to construct them separately. To learn more about public funding of bicycle infrastructure improvements, visit pedbikeinfo.org/planning/funding_government.cfm.

Resources and Support

Advocacy Advance offers several tools, resources, and workshops to help advocates and agency staff maximize eligible funding programs.