



City of Raleigh Bicycle & Pedestrian Advisory Commission

Office of Transportation Planning

P.O. Box 590 • Raleigh, North Carolina 27602 • (919) 996-2155

Monday, September 17, 2012, 6:00pm
Council Chambers, Raleigh Municipal Building
222 W. Hargett Street, Raleigh NC 27602

AGENDA

I. Introductions

II. Approval of Minutes from July 16, 2012

III. Annual Elections

Nominations and elections of Commission Chair and Vice-Chair positions, to serve until August 2013.

IV. 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.

V. Staff Report

- **City Project Updates**
- **Comprehensive Pedestrian Plan Review**

VI. Committee & Member Reports

- **Chair's Report**
- **Education Committee**
 - Public School System Coordination
 - Watch for Me, NC Campaign
 - Bicycle Co-op/Donation Program
- **Planning Committee**
 - Bicycle Plan Action Strategies
 - City Code Evaluation for Bicycles
 - On-road and Greenway Wayfinding
- **Special Events Committee**
 - PNC Arena Coordination
 - Walk to School Day: October 3, 2012
 - NC Bike Summit: October 12-13, 2012
- **Communications Committee**
 - No pending items
- **Hillsborough Corridor Ad Hoc Committee**
 - Bicycle Facility Recommendations – a report and recommendation will be made at this meeting

VII. New Business

- **Streetscape Improvement Program** – Review existing prioritization criteria and project list

VIII. Announcements

- **Upcoming Events** – Please announce any events here
- **Confirmation of Next BPAC meeting** – October 15, 2012

IX. Adjournment

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DRAFT- Meeting Minutes, Monday, July 16, 2012

The City of Raleigh Bicycle & Pedestrian Advisory Commission met on Monday, July 16, 2012 at 6:00pm at City of Raleigh Council Chambers, 222 West Hargett St., Raleigh, NC, with the following members present:

Commission Members:

Alan Wiggs, Chair
Charlotte Mitchell, Vice-Chair
Corey Bates
Mike Dayton
Sig Hutchinson
Brian McCrodden
Aaron Peeler

Staff:

Eric Lamb, Transportation Planning Manager
Jennifer Baldwin, Bike/Ped Coordinator
Fleming El-Amin, Transportation Planner
Amanda Driscoll, Administrative Support

Absent:

Dr. Linda Butler (excused)
Steven Waters (excused)

I. Introductions

Mr. Wiggs called the meeting to order at 6:03pm and asked that everyone introduce themselves.

II. Approval of Minutes

Mr. Hutchinson moved approval of the meeting minutes from the June 18, 2012 meeting which was properly seconded by Mr. Dayton and approved by unanimous voice vote.

III. Public Comment

No public comments were received.

Without objection, Mr. Wiggs requested to move the Capital Boulevard Pedestrian Safety Study presentation ahead of the staff report on the agenda.

IV. New Business

Capital Boulevard Pedestrian Safety Study - Mr. Scott Lane of Stantec Engineering gave a presentation regarding a pedestrian safety study conducted on Capital Boulevard from I-440 to Cavalry Drive at the request of NCDOT. Mr. Lane reported that while the study was being conducted, many improvements were already being implemented by the City of Raleigh and NCDOT along the corridor. Proposed improvements include widening or extending the center median to provide a pedestrian refuge and installing pedestrian signals and crosswalks. The final study recommends several intersection, transit, and street light improvements, as well as the development of an education program to promote safe pedestrian behaviors along the corridor. The report was received as information by the Commission.

V. Staff Report

Mr. Lamb stated that staff will begin adding NCDOT projects to the project update spreadsheet. Mr. Lamb reported that Jones Sausage Road/ Rock Quarry Road may not meet the August benchmark for completion. Mr. Lamb stated that the resurfacing project on Hillsborough Street from Gardner Street to Gorman Street has been completed. Mr. Hutchinson inquired if the roundabout on Hillsborough Street at Pullen Road had been reduced to one lane. Mr. Lamb stated that the lane reduction has not been completed, but should be complete before the NCSU fall semester begins.

Mr. El-Amin reported that the final draft of the Comprehensive Pedestrian Plan will be complete by July 27th and will be reviewed by staff. Mr. El-Amin stated the steering committee is scheduled to reconvene on August 13th to review the plan and submit comments. After a 30 day public comment period, the Comprehensive Pedestrian Plan will be presented to City Council.

Mr. Lamb reported on the bicycle scoping rides that have been conducted by members of the BPAC, City staff and the public. Ms. Baldwin confirmed the final scoping ride will include Gorman Street, Hillsborough Street, and West Morgan Street.

VI. Committee and Member Reports

Chair's Report – Mr. Wiggs thanked the Raleigh Police Department for their escort at the memorial ride for Mr. Steven Jordan, who was killed while riding his bicycle on Louisburg Road on July 4th.

Education Committee Report – Mr. Dayton reported that six teachers from the Wake County Public School System attended the bicycle safety session on July 3rd. Ms. Baldwin stated that there will be another training session offered on August 23rd. Ms. Baldwin also reported that the Watch for Me, NC Campaign will kick off on August 1st. Campaign materials include bumper stickers, exterior and interior bus advertisements, and gas station advertisements.

Mr. Wiggs reported that Dr. Linda Butler has been researching bicycle co-ops in Boston, MA.

Planning Committee Report - Mr. Wiggs reported that the committee met with Ms. Christine Darges, City of Raleigh Development Services Manager, to discuss BPAC's recommendations on the draft Unified Development Ordinance (UDO). Mr. Wiggs stated that the group discussed the different categories of bicycle parking including short term bike parking and long-term bike parking, which is intended for employees and commuters. Mr. Lamb reported that the City's Attorney's office has concerns with some of the BPAC's bicycle parking recommendations and will provide their comments during the next Planning Commission meeting on July 31st.

Special Events Committee Report – Ms. Mitchell reported progress is being made on their coordination efforts with the PNC Arena. Ms. The committee is working with race and event organizers to develop a specific bicycle event proposal.

Ms. Baldwin reported that Walk to School Day is October 3, 2012 and Raleigh is tentatively planning to host an event at Emma Conn Elementary School. Ms. Baldwin stated October 3rd will also kick off the enforcement piece of the Watch for Me, NC campaign.

Communication Committee Report – No report.

Hillsborough Street Corridor Ad Hoc Committee Report - No report.

VII. New Business

Blue Ridge Road District Study- Mr. Lamb gave a presentation on the Blue Ridge Road District Study. The study area includes Blue Ridge Road from Western Boulevard to Duraleigh Road and the surrounding areas. Mr. Lamb stated that a draft of the final study will be available for public comment within the next 2 weeks. After the 30 day public comment period, the study will be presented to City Council for their approval.

Pedestrian Circulation Plan - Mr. Lamb stated that requirements for pedestrian circulation plans are being considered for inclusion into the UDO. Mr. Lamb reported that staff has asked the BPAC to develop recommendations for what such a plan includes. Mr. Hutchinson recommended that these plans should state destination intents, network connectivity and convenient

accessibility. After further discussion, the following recommendation was developed: “A pedestrian circulation plan should be required for all campus and mixed use developments and include: 1) a survey of surrounding parks, greenways, and schools; and 2) a clear explanation of how pedestrian connectivity and accessibility is improved from a 360 degrees viewpoint. Mr. Wiggs moved to approve the definition as stated, which was properly seconded by Mr. Hutchinson and approved by unanimous voice vote.

VII. Announcements

Mr. Lamb announced the final scoping ride will be held on July 21st. Mr. Dayton announced a fundraiser dinner at Centro for cyclists on Tuesday, July 24th. Mr. Wiggs announced that the Raleigh Police Department will be hosting a memorial bike ride on August 25th. Mr. Wiggs also announced that the August BPAC will be canceled and stated that commission elections will occur during the September 17th meeting.

IX. Adjournment

With no further business, the meeting was adjourned at 7:57pm.

Respectfully submitted,

Amanda Driscoll

Name	Description	Status
Major City Capital Improvement Projects		
Jones Sausage Road Widening	Widen street to five lanes with curb & gutter and sidewalks from Sunnybrook Road to New Hope Road (1.4 miles)	Under construction; to be complete by spring 2013
Rock Quarry Road Widening, Part B	Widen street to four lanes with curb & gutter, sidewalks, wide outside lanes, and median refuges from Sunnybrook Road to New Hope Road (0.9 miles)	Under construction; to be complete by spring 2013
Falls of Neuse Road Widening & Realignment	Widen street to four lanes and construct new four-lane street with curb & gutter, sidewalks, wide outside lanes, and median refuges from Raven Ridge Road to New Falls of Neuse Road (2.1 miles)	Under construction; Phase I complete; Phase II 60% complete.
Wade Avenue Improvement Project	Adding curb & gutter, sidewalks, wide outside lanes, and median refuges from Ridge Road to Faircloth Street	Under construction; 50% complete
Mitchell Mill Road Widening	Widen street to four lanes with curb & gutter, sidewalks, striped bike lanes, and median refuges from US 401 to Watkins Road (1.4 miles)	90% design complete; project suspended due to lack of funds
Buck Jones Road Widening	Widen street to four lanes with curb & gutter, sidewalks, striped bike lanes, and median refuges from Farmgate Road to Xebec Way (1.4 miles)	65% design complete; construction delayed until 2015
Leesville Road Widening	Widen street to four lanes with curb & gutter, sidewalks, striped bike lanes, and median refuges from I-540 to New Leesville Boulevard	Scheduled to begin construction spring of 2013
Marvino Lane	New alignment as a 3-lane section with curb & gutter and sidewalk on the west side	Design complete; construction scheduled to begin spring of 2013
Peace Street West Streetscape	Roadway improvements, sidewalk repairs/replacement; street trees, utility cleanup	75% design complete; schedule pending decision on remaining funds
Capital Boulevard Improvements	Improve Capital Blvd from Spring Forest Road to Old Wake Forest Road for multimodal accessibility. Funded for Preliminary Engineering and Design only.	Agreement with NCDOT for design and P/E is pending
Transportation Plans		
Capital Boulevard Corridor Study	Long range multimodal transportation study from Lane Street to I-440	Adopted by City Council on August 7, 2012
Comprehensive Pedestrian Plan	Comprehensive analysis of pedestrian needs and demand including updated assessment inventory and prioritized project list.	Final draft being finalized; public review to begin in September 2012
Blue Ridge Road Corridor Study	Long range multimodal transportation and land use study from Edwards Mill Road to Western Blvd.	Adopted by City Council on September 4, 2012
Blount/Person Corridor Study	Long range multimodal transportation study and streetscape plan from I-40 to Capital Blvd.	Data collection underway; project kickoff scheduled early fall
West Street Extension Study	NEPA study for proposed West Street Extension from Martin Street to Cabarrus Street	Consultant selected, currently negotiating contract
Six Forks Corridor Study	Long range multimodal transportation study and streetscape plan from Ramblewood Dr to Sandy Forks Rd	Visioning workshop scheduled September 22, 2012 8am-12:30pm at the First Citizens Center, 4300 Six Forks Road
Neighborhood Traffic Calming Program		
Anderson Drive	Glenwood Ave to Six Forks Rd: Add Bike Lanes, realign intersection at Six Forks Rd	Bike lanes and sharrows installed; construction to be complete Dec 2012
Brookside Drive	Watauga St. to Glasscock St: Add bike lanes, median islands, curb ext and bulb-outs	Design approved and adopted by City Council on June 5; Construction estimated to begin Summer 2013
Kaplan Drive	Melbourne Rd to Kent Rd Add bike lanes, sidewalks, curb ext, bulb-outs, median islands, and speed humps	Design approved and adopted by City Council on June 5; Construction estimated to begin Summer 2013
Glascok Street	Norris Street to Raleigh Blvd: median islands, curb ext, sidewalk on north side	Public approved design; City Council review TBD
Rainwater Road	Spring Forest Rd to Hunting Ridge Rd: channelized T intersection at Briar Force Pl, curb ext with potential BMP, median island	Under review
Miburnie Road	Raleigh Blvd to Chatam Ln: Scope TBD	Under review

Name	Description	Status
Bicycle Projects		
STP-DA Grant Projects - FFY11 (Approved Projects)		
	Hargett Street (S. West St to Tarboro Rd)	Complete
	S. State Street (Bragg Street to MLK Blvd)	Complete
	Clark Avenue (Faircloth St to St. Mary's St)	Complete
	Faircloth Street (Hillsborough St to Wade Ave)	Complete
	Oberlin Road (Hillsborough St to Glenwood Ave)	Under construction
	Lassiter Mill Rd (Glenwood Ave to Camelot Dr)	Under construction
CMAQ Grant Projects FFY13	Bicycle Plan Prioritization List (3 year disbursement 2013-2015); FY11 City CIP Funds to be used to design up to 50 miles of bicycle facilities	Consultant proposals under review
City Resurfacing Program		
	Pullen Road (Watauga Club to Western Blvd)	Complete
NCDOT Resurfacing Program	Resurface NCDOT streets and restripe per the Bike Plan	
	Gorman Street (Avent Ferry Road to Tryon Rd)	Under design
	New Bern Avenue (N Person Street to Raleigh Blvd)	Under review
Sidewalk and Pedestrian Improvement Projects		
FY13 Sidwalk Projects (2011 Bond Funds)		
	Clark Avenue (Woodburn to Bellwood)	Design underway; public meeting date TBD
	Green Road (New Hope Church Rd to Spring Forest Rd)	Design underway; public meeting date TBD
Petition Projects	Sidewalk Projects initiated by citizen petitions	
	Merwin Dr (Swift Dr to Liles Dr)	Complete
	Brooks Avenue (Barmettler St to Wade Ave)	Complete
STP-DA Grant Projects - FY11		
	Falls of Neuse Rd/Wake Forest Rd (Hardimont Rd to Bland Rd/Pacific Dr)	Construction to begin Fall 2012
	Lake Boone Trail (I-440 to Dixie Trail)	Construction to begin Fall 2012
	Poole Rd (Sunnybrook Rd to Old Poole Rd)	Construction underway; 25% complete
	Calvary Dr (Green Rd to Capital Blvd)	Construction underway; 74% complete
	Wade Ave (Dogwood Ln to Hymettus Ct)	Construction to begin Fall 2012
	Fox Rd (Werribee Dr to I-540 Bridge)	Construction underway; 95% complete

Name	Description	Status
	New Hope Church Rd (Green Rd to Ingram Dr)	Construction underway; 86% complete
STP-DA Grant Projects - FFY12		
	Creedmoor Road (Glenwood Ave to Strickland Rd)	Design complete; construction scheduled to begin Spring of 2013
	Lake Wheeler Road (Centennial Parkway to Tryon Rd)	Design complete; construction scheduled to begin Spring of 2013
STP-DA Grant Projects - FFY13		
	Downtown Pedestrian Safety Improvements (Design and install pedestrian signals at several downtown intersections)	Agreement with NCDOT for design and P/E is pending
CMAQ Grant Projects		
	Overpass Pedestrian Accessibility Retrofit Project - (Avent Ferry Rd, Lake Dam Rd, Trailwood Dr, Rock Quarry Rd, Trenton Rd and Blue Ridge Rd)	Agreement with NCDOT pending; Feasibility study to begin October 2013
	Six Forks Rd Sidewalk Project (Coleridge Dr to Wake Forest Rd)	Agreement with NCDOT pending; Design to begin October 2013
Greenway Improvement Projects		
SEHSR Greenway Options	Assess possible parallel greenway and bicycle corridors along High Speed Rail project corridor from Neuse River Greenway to Downtown Raleigh	OTP staff to work with Parks & Rec staff to identify potential alternatives; NC ECG to organize special committee to discuss route from VA border to Fayetteville
Neuse River Trail	Construct new greenway from the WRAL Soccer Complex off Perry Creek Rd. to the Wake/Johnston County Line - 21.5 miles in length.	
River Bend	From the WRAL Soccer Complex to Horsehoe Farm Park - 1 mile.	In design; construction bids are expected to be advertised early 2013.
Horseshoe Farm Park to Skycrest Dr	From US 401 south of Horseshoe Farm Park to Skycrest Drive - 7 miles. Project includes three bridges over the Neuse River.	Under construction; expected to be complete by Nov 2012.
Skycrest Dr to Anderson Point	From Skycrest Drive to Anderson Point Park - 3.5 miles. Project includes the construction of three bridges over the Neuse River.	Under construction; expected to be complete by Oct 2012.
Anderson Point to Poole Rd	From Anderson Point Park to Poole Road - 1.2 miles. Project includes construction of a bridge over Crabtree Creek.	Under construction; expected to be complete by March 2013.
Poole Rd. to Auburn-Knightdale Rd.	From Poole Road to Auburn-Knightdale Road - 3.0 miles. Project includes construction of several bridges, including a crossing at Walnut Creek.	Under construction; expected to be complete by Nov 2012.
Auburn-Knightdale Rd. to Johnston County line	From Auburn-Knightdale Road to the Johnston County Line - 5.7 miles. Project includes construction of several bridges.	Under construction; expected to be complete by Nov 2012.
House Creek Trail	From Reedy Creek Greenway at I-440 to the Crabtree Creek Trail at Blue Ridge Road - 2.9 miles. Project includes underpasses under Lake Boone Trail and Glen Eden Drive.	Grand Opening scheduled for September 24th, 2012
Honeycutt Creek Trail	From the Mine Creek Greenway Corridor to the South Shore Trail at Falls Lake - 5.7 miles.	Construction bids are expected at the end of Sept 2012
Walnut Creek Trail Extension	From Rose Lane to New Hope Road - 2.9 miles	Construction bids are expected at the end of Sept 2012
Walnut Creek Trail Extension	From New Hope Road to the Neuse River Trail - 1.6 miles.	Construction bids are expected at the end of Sept 2012
Crabtree Creek Trail Extension	Extends from Milburnie Road to the Neuse River Trail and is approximately 4.1 miles long.	In design; Construction bids expected in early 2013
Active NCDOT Projects		
B-4437 - Blue Ridge Rd/Hillsborough St/NCRR grade separation	Convert existing at-grade intersection to grade separation. Improve access for bicycles and pedestrians and provide access to future proposed TTA light rail station	EA/FONSI scheduled to be complete by end of 2012
B-4660 - Falls of Neuse/Neuse River Bridge Replacement	Replace Falls of Neuse Bridge over the Neuse River; includes greenway improvements and connection to Forest Ridge Park	Under construction

Name	Description	Status
B-4656 - Hillsborough St/Western Blvd Bridge Replacement	Decommission existing flyover bridge at Western Boulevard and Hillsborough Street, and install curb and gutter and sidewalk improvements from Jones Franklin Road to Etta Burke Court	To be let for construction in Fall 2012
B-4946 - US 70/401 Split	Replace existing highway flyover on US 401 at US 70	NEPA study underway
B-5121 - Capital Blvd/Peace St Bridge Replacement	Replace existing bridge on Capital Boulevard at Peace Street	NEPA study underway; construction planned for FFY16
B-5130 - Avent Ferry Rd/Lake Johnson bridge replacement	Replace existing bridge on Avent Ferry Road over Lake Johnson; improve causeway and bridge to include bike lanes and sidewalks.	NEPA study underway
B-5317 - Capital Blvd/Wade Ave Bridge Replacement	Replace existing bridge on Wade Avenue at Capital Boulevard	NEPA study underway; construction planned for FFY16
FS-1005A I-40 Widening	Evaluate widening of I-40 to eight lanes from I-440/US 1 to Lake Wheeler Road	Feasibility study underway
P-3819 Southeast High Speed Rail	Implement high speed rail service from Raleigh to Petersburg, VA. Includes multiple grade separation conversions at existing railroad crossings.	Final EIS to be complete by 2013; currently unfunded
R-2829 - Eastern Wake Expressway	Construct new freeway from I-40/US 70 Bypass in Johnston County to US 264/I-540 interchange	Draft EIS underway
U-2719 - I-440 Widening	Widen the I-440 Beltline from I-40 to Wade Avenue; will include reconstruction and improvement of multiple existing interchanges.	NEPA study underway
U-2823 - US 70 Improvements	Widen US 70 to six lanes and construct parallel streets from Lumley Road/Westgate Road to Duraleigh Road/Millbrook Road. Includes sidewalk and greenway improvements.	NEPA study underway
U-4432 - Tryon Rd Widening/Improvements	Widen and realign Tryon Road from Par Drive to S. Wilmington Street and replace the existing bridge over the Norfolk-Southern Railroad	Final design underway
U-4721 - Aviation Parkway Extension	Extend Aviation Parkway as a proposed four-lane freeway from I-540 to US 70 at the Durham County line	Feasibility study underway
Brier Creek Parkway/US 70 Interchange	Convert intersection of US 70 and Brier Creek parkway to a grade-separated interchange	Identified for funding under Mobility Fund
US 1 Pedestrian Study	Evaluate pedestrian safety countermeasures along Capital Boulevard from I-440 to Calvary Drive	Complete
Trailwood Rd bridge replacement	Replace existing bridge on Trailwood Road over Walnut Creek; includes bike lane and greenway link improvements.	Design/build project
Trinity Rd Pedestrian Tunnels	Evaluate the feasibility for constructing pedestrian tunnels under Trinity Road near Carter-Finley Stadium	Feasibility study underway

BPAC Hillsborough Street Corridor Ad Hoc Committee

DRAFT Report: Bicycle Facility Recommendations

Section 1: Salisbury Street to Edenton Street

- **Existing Conditions:** Four lane section (two in each direction) with on-street parking on both sides
- **Bicycle Plan Recommendations:** Sharrows
- **Committee Recommendations:** Road diet analysis needed to determine the feasibility of a three lane section (two travel lanes and a center turn lane) with bicycle lanes and on-street parking; Develop cost estimates to determine priority of road diet project; Investigate resurfacing NCDOT schedule

Section 2: Edenton Street to St. Mary's Street

- **Existing Conditions:** Four lane section (three lanes Westbound and one lane Eastbound) with on-street parking on the Southside (infrequent use); several driveway openings
- **Bicycle Plan Recommendations:** Bicycle Lanes
- **Committee Recommendations:** Road diet analysis to determine feasibility of a three lane section (two travel lanes and a center turn lane) with bicycle lanes

Section 3: St. Mary's Street to W. Morgan Street

- **Existing Conditions:** Four lane section (two lanes each direction) with on-street parking
- **Bicycle Plan Recommendations:** Bicycle Lanes
- **Committee Recommendations:** Install bicycle lanes; identified as high priority due to its low cost and constructability

Section 4: Woodburn Road to Enterprise Street

- **Existing Conditions:** Pullen Road roundabout
- **Bicycle Plan Recommendations:** Bicycle Lanes
- **Committee Recommendations:** Install bicycle lanes to connect to existing facilities where space allows and install sharrows approaching the roundabout

Section 5: Enterprise Street to Gardner Street

- **Existing Conditions:** Median divided two lane section with seven foot on-street parking and five foot bicycle lanes
- **Bicycle Plan Recommendations:** Bicycle Lanes
- **Committee Recommendations:** Review crash analysis before making determination on existing temporary bicycle lanes

Section 5: Gardner Street to Rosemary Street

- **Existing Conditions:** Varies from a three to four lane section with allowances for on-street parking
- **Bicycle Plan Recommendations:** Bicycle Lanes
- **Committee Recommendations:** Participate in the Hillsborough Street Streetscape Phase II design project (currently funded for design only) for bicycle facility recommendations

BPAC Hillsborough Street Corridor Ad Hoc Committee

DRAFT Report: Bicycle Facility Recommendations

Section 6: Rosemary Street to Gorman Street

- **Existing Conditions:** Three lane section (two travel lanes and center turn lane)
- **Bicycle Plan Recommendations:** Bicycle Lanes
- **Committee Recommendations:** Participate in the Hillsborough Street Streetscape Phase III design project (currently unfunded) for bicycle facility recommendations; Investigate bicycle friendly infrastructure at the intersection of Faircloth Street to accommodate access to the greenway

Section 7: Gorman Street to I-440 Interchange

- **Existing Conditions:** Four lane section (two lanes each direction) with turn lane pockets at intersections; NCDOT beginning I-440 widening project design that will install a multi-use path across the interchange
- **Bicycle Plan Recommendations:** Bicycle Lanes
- **Committee Recommendations:** Road diet analysis needed to determine the feasibility of a three lane section (two travel lanes and a center turn lane) with bicycle lanes

Section 8: I-440 Interchange to Blue Ridge Road

- **Existing Conditions:** Four lane section with center median; NCSU expansion project will install multi-use path along the north side
- **Bicycle Plan Recommendations:** Bicycle Lanes
- **Committee Recommendations:** Narrow existing travel lanes and install bicycle lanes; Coordinate with NCSU to determine roadway cross section of Vet School expansion project

Section 9: Blue Ridge Road to Powell Drive

- **Existing Conditions:** Three lane section (two travel lanes and a center turn lane)
- **Bicycle Plan Recommendations:** Bicycle Lanes
- **Committee Recommendations:** Road widening project needed to implement Bicycle Plan recommendations

Section 10: Powell Drive to Burton Avenue

- **Existing Conditions:** Chapel Hill Road (54) split and Jones Franklin Road intersection with Eastbound lanes and the Western Boulevard merge with Westbound lanes; Railroad underpass creates major obstacle
- **Bicycle Plan Recommendations:** Bicycle Lanes
- **Committee Recommendations:** Road widening project needed to implement Bicycle Plan recommendations

Section 11: Burton Avenue to Cary town limits

- **Existing Conditions:** Three lane section (two travel lanes and a center turn lane)
- **Bicycle Plan Recommendations:** Bicycle Lanes
- **Committee Recommendations:** Road widening project needed to implement the Bicycle Plan recommendations



City of Raleigh *North Carolina*

August 23, 2012

MEMORANDUM

TO: Mitchell Silver, AICP
Chief Planning and Development Officer

FROM: Eric J. Lamb, PE
Manager, Office of Transportation Planning

SUBJECT: Updated Streetscape Project Priorities

Per the recommendations of staff and the Bicycle & Pedestrian Advisory Commission (BPAC), the Raleigh City Council adopted a list of 23 prioritized streetscape projects on October 5, 2010. The prioritized list of projects was based on several evaluation criteria concerning the benefits and feasibility of each project. With the exception of design funding for the Hillsborough Street Phase II project, streetscape projects included in the FY13 CIP were unfunded.

Since 2010 several small area studies and corridor plans have been developed which recommend new streetscape improvements to corridors that were not included in the original project list. We have reviewed the project list and identified projects that would be more suitably programmed in the City's Capital Improvement Program as major street improvements. The following projects were previously programmed as streetscape projects but are now recommended as major street improvement projects:

- Glenwood Avenue Improvements, from Oberlin Road to I-440;
- New Bern Avenue Corridor Improvements, from Raleigh Boulevard to Sunnybrook Road (includes the realignment of Poole Road and Calumet Drive to New Bern Avenue).

The updated list now includes a total of 37 separate projects, many of which were previously programmed as larger-scale projects that have been phased into smaller projects for construction or design planning. The revised project list is provided in alphabetical order and is not prioritized at this time. The evaluation criteria and scoring methodology established during the previous round of project reviews may need to be updated. Any update to the program should include opportunities for public input and for review by the BPAC.

If you have any questions about the list or the process by which the projects were identified, please advise.

EJL/fe

Attachments

Cc: Carl Dawson, PE – Public Works Director

Proposed Streetscape Improvement Projects						
	Project Name	Location	Type	Description	Origin/Reference	Status
1	Avent Ferry Road	From Western Blvd to Gorman Street	Rehab existing infrastructure/ Construction Planning	Upgrade sidewalks, crosswalks, pedestrian refuge islands, medians, and street trees	NCSU Request	No CIP Funding Programmed
2	Blue Ridge Rd District Study - Segment 1	From Reedy Creek Road to Wade Avenue	New infrastructure/ Construction Planning	Upgrade sidewalks, crosswalks, pedestrian refuge islands, enhanced landscaped median, and street trees	Blue Ridge Road District Study	90% Complete, final design public meeting held on 7/12/12
3	Blue Ridge Rd District Study - Segment 2	From Edwards Mill Road to Reedy Creek Road	New infrastructure/ Construction Planning	Upgrade sidewalks, crosswalks, pedestrian refuge islands, and enhanced landscaping	Blue Ridge Road District Study	90% Complete, final design public meeting held on 7/12/12
4	Blue Ridge Rd District Study - Segment 3	From Wade Avenue to Hillsborough Street	New infrastructure/Construction Planning	Curb & gutter, sidewalk, crosswalks, pedestrian refuge islands, and enhanced landscaping	Blue Ridge Road District Study	90% Complete, final design public meeting held on 7/12/12
5	Blue Ridge Rd District Study - Segment 4	From Hillsborough Street to Western Blvd	New infrastructure/Construction Planning	Upgrade sidewalks, crosswalks, pedestrian refuge islands, and enhanced landscaping	Blue Ridge Road District Study	90% Complete, final design public meeting held on 7/12/12
6	Boylan Avenue	From Western Blvd to Willis Forest Street (Fred Fletcher Park)	Rehab /Green Street Construction Planning	Upgrade pedestrian facilities, landscaping, plant strips, wider sidewalks, bicycle lanes, mid-block crossings, wayfinding signage, pedestrian scale lighting, stormwater management upgrades	2030 Comp Plan – Action Plan, Downtown Raleigh (DT-2.8) Map DT.4	Need to identify specific priority areas, prepare design drawings and estimate cost.
7	Cabarrus Street	From Chavis Way to Dorothea Drive	Rehab /Green Street Construction Planning	Upgrade pedestrian facilities, landscaping, plant strips, wider sidewalks, bicycle lanes, mid-block crossings, wayfinding signage, pedestrian scale lighting, stormwater management upgrades	2030 Comp Plan – Action Plan, Downtown Raleigh (DT-2.8) Map DT.4	Need to identify specific priority areas, prepare design drawings and estimate cost.
8	Downtown West Gateway Streetscape-Phase I	South Street – S. Saunders Street to Dawson Street; Lenoir Street – Wilmington Street to East Street	Rehab existing infrastructure/Construction Planning	The two-way conversion of South and Lenoir Streets includes traffic signal modifications, crosswalks, sidewalk upgrades, and bicycle accommodation.	2030 Comp Plan – Action Plan, Downtown West Gateway (AP-DWG 5)	South Lenoir two-way conversion project is funded and under design
9	Downtown West Gateway Streetscape –Phase II	Cabarrus Street – Dawson Street to Florence Street.	Rehab existing infrastructure/ Design Planning	Business access coordination, sidewalk repairs/replacement, street trees, overhead utility consolidation/cleanup.	2030 Comp Plan – Action Plan, Downtown West Gateway (AP-DWG 5)	No CIP Funding Programmed
10	Falls of Neuse Road	From Carlos Drive to Hunting Ridge Road	Rehab existing infrastructure/Design Planning	Various streetscape treatment s including medians, intersection improvements, street trees, landscaped medians, pedestrian connections, crosswalks and signalization enhancements	Staff Recommendation	No CIP Funding Programmed
11	Five Points Streetscape	Glenwood Ave - Harvey St to north of White Oak Rd; Fairview Rd - Scales St to south of Jarvis Street; Glenn Ave – Vance St to Glenwood Ave; Whitaker Mill Rd – Glenwood Ave to Sunset Dr.	Rehab existing infrastructure/Construction Planning	Street trees, sidewalk replacement, utility undergrounding, street lighting, traffic signal pole and mast arms and pedestrian furniture	Citizen request	Merchant group organized. Visioning charrette held September 26, 2010.
12	Hillsborough Street –Phase II (Rosemary)	From Gardner Street to Rosemary Street	Rehab existing infrastructure/Construction Planning	Business access coordination, sidewalk repairs/replacement, round-about, street trees between curb and sidewalk, overhead utility consolidation/cleanup	City initiated	Included in 2011 Transportation Bond, Design funded in FY13 CIP
13	Hillsborough Street – Phase III (Gorman)	From Rosemary Street to Gorman Street	Rehab existing infrastructure/Construction Planning	Business access coordination, sidewalk repairs/replacement, round-about, street trees between curb and sidewalk, overhead utility consolidation/cleanup	City initiated	No CIP Funding Programmed
14	Hillsborough Street – Phase IV (Cameron)	From Morgan Street to Oberlin Road	Rehab existing infrastructure/ Construction Planning	Business access coordination, sidewalk repairs/replacement, round-about, street trees between curb and sidewalk, overhead utility consolidation/cleanup	2030 Comp Plan – Action Plan, Cameron Park Area Plan (AP-CP 1).	No CIP Funding Programmed
15	Hillsborough Street – Phase V (Meredith)	From Gorman Street to I-440	Rehab existing infrastructure/ Design Planning	Business access coordination, sidewalk repairs/replacement, round-about, street trees between curb and sidewalk, overhead utility consolidation/cleanup	City/Meredith College	No CIP Funding Programmed
16	Hillsborough Street – Phase VI (Westover)	From Blue Ridge Road to Chapel Hill Road	New infrastructure/ Construction Planning	Sidewalks and curb & gutter in Fairgrounds area, round-about at Hillsborough/Chapel Hill and adding on-street parking around the hardware store	2030 Comp Plan – Action Plan, Arena Area Plan (AP-A 1).	No CIP Funding Programmed
17	Jones Street	From St. Mary's Street to Hill Street	Rehab /Green Street Construction Planning	Upgrade pedestrian facilities, landscaping, plant strips, wider sidewalks, bicycle lanes, mid-block crossings, wayfinding signage, pedestrian scale lighting, stormwater management upgrades	2030 Comp Plan – Action Plan, Downtown Raleigh (DT-2.8). Map DT.4	Need to identify specific priority areas, prepare design drawings and estimate cost.
18	Martin Street	Salisbury Street to West Street	Rehab - Priority Pedestrian Street Implementation/ Design Planning	Sidewalk repair and installation, street trees and furniture, consolidation of utilities	2030 Comp Plan – Action Plan, Downtown Raleigh (DT-2.6)	No CIP Funding Programmed

19	MLK, Jr. Blvd	From Wilmington Street to State Street	Construction Planning	Various streetscape treatments including medians, intersection improvements, street trees, landscaped medians, pedestrian connections, crosswalks and signalization enhancements	Pedestrian Plan example location design recommendations	No CIP Funding Programmed
20	New Bern/Edenton Corridor	From Swain Street to Raleigh Blvd	Rehab existing infrastructure/ Construction Planning	Curb & gutter, sidewalks, street furniture, on-street parking, and transit amenities.	New Bern Corridor Study Recommendation	No CIP Funding Programmed
21	New Bern Avenue East – Phase I	From Sunnybrook Road to Trawick Road	New infrastructure/ Design Planning	Wider sidewalks, upgraded lighting, median based transit, street trees, street furniture, and landscaping.	City initiated/Pedestrian Plan Example Location	No CIP Funding Programmed
22	New Bern Avenue East – Phase II	From Trawick to New Hope Road	New infrastructure/ Design Planning	Wider sidewalks, upgraded lighting, enhanced median, and landscaping.	City initiated	Need design plan. Unfunded
23	Oberlin Road	From Bedford Road to Clark Avenue	Rehab existing infrastructure/ Construction Planning	Sidewalk connections and repairs, on-street parking, medians, enhanced pedestrian and bicycle access, plantings, lighting, public transit and additional safety and calming features. Roundabout construction at Oberlin Rd and Clark Ave.	2030 Comp Plan – Action Plan, Wade-Oberlin Area Plan (AP-WO 1).	Phase 1 implemented at Wade Avenue / Oberlin Road intersection. Private development at 401 Oberlin reserved ROW for roundabout
24	Olde East Raleigh Streetscapes	Neighborhood area including Martin Street and Lenoir Street generally between Chavis Way and Rock Quarry Road	Rehab existing infrastructure/Design Planning	Coordinate streetscape and other improvements to create a quality neighborhood image, and to develop and place decorative signage as neighborhood identifiers to celebrate the history and culture of the community	2030 Comp Plan – Action Plan, Olde East Raleigh Area Plan (AP-OER 2)	Need concept plan to identify specific locations and improvement needs.
25	Peace Street East	From West Street to Person Street	Rehab existing infrastructure/Construction Planning	Driveway consolidation, sidewalk repairs/replacement, street trees between curb and sidewalk, overhead utility consolidation/cleanup	2030 Comp Plan – Action Plan, Downtown Raleigh (DT-2.6). Carry over from 2020 Comp Plan - Glenwood South Plan and Blount/Halifax Plan	NCDOT Capital Blvd bridge replacement over Peace St. is under design
26	Person Street	Peace Street to Delway Street	Rehab existing infrastructure/Construction Planning	Reconfigure roadway and sidewalks, trees and street furniture, undergrounding utilities, traffic calming	Citizen request	Visioning charrette held June 2008. Area is included in Person/Blount Corridor Study Scope. No CIP funding.
27	Poole Road Streetscape	New Bern Ave to MLK Blvd	Rehab existing infrastructure/ Construction Planning	Consistent streetscape treatment including medians, intersection bulb outs, street trees, landscape parking buffers, pedestrian connections, crosswalks and signalization enhancements	Southeast Streetscape Plan	Concept plan prepared. CIP funding available for design and construction plan preparation.
28	Salisbury Street	Morgan Street to South Street	Rehab - Priority Pedestrian Street Implementation/ Design Planning	Reconfigure roadway and sidewalks, trees and street furniture, undergrounding utilities, traffic calming	2030 Comp Plan – Action Plan, Downtown Raleigh (DT-2.6)	No CIP Funding Programmed
29	Sanderford / Creech Road Intersection	Northwest corner of intersection	Landscaping/Design Planning	Gateway entrance signage and landscape beautification	Southeast Streetscape Plan	Concept plan prepared. Delayed for future roadway improvements and CIP funding.
30	Tarboro/Oakwood Area	Oakwood Ave from Tarboro Rd to Raleigh Blvd; Tarboro Road from Oakwood Ave to Edenton Street	Rehab existing & new infrastructure/Design Planning	Sidewalk repair and installation, street trees and furniture, consolidation of utilities	Citizen Request	Staff/citizen concept team formed. No other action to-date
31	Trinity Road	Between Blue Ridge Road and Edwards Mill Road	New infrastructure/Construction Planning	Bicycle, pedestrian and access improvements, and tree plantings and design features to give the corridor definition. Unified directional signage system.	2030 Comp Plan – Action Plan, Arena Area Plan (AP-A 2).	Included in Blue Ridge Road District Study. No CIP funding.
32	Wake Forest Road	Delway Street to Capital Blvd	Rehab existing infrastructure/Design Planning	Reconfigure roadway, installation and repair of sidewalks, trees and street furniture	Citizen request	Visioning charrette held June 2008. Included in Blount/Person Corridor Study Scope. No CIP funding.
33	Wake Forest Road - North	I-440 to St. Albans Drive	New infrastructure/Construction Planning	Upgrade sidewalks, crosswalks, pedestrian refuge islands, medians, and street trees	Pedestrian Plan example location design recommendation	No CIP Funding Programmed
34	West Morgan Street	From St. Mary's Street to Hillsborough Street	Rehab existing infrastructure/ Construction Planning	Upgrade sidewalks, crosswalks, on-street parking, bulb-outs, pedestrian scale lighting, and street trees	West Morgan Street Small Area Study	Concept plan prepared. CIP funding need for improvements.
35	Whitaker Mill Road Streetscape	From Pine Drive to Wake Forest Road	Rehab existing infrastructure/Design Planning	Residential oriented streetscape improvements to support pedestrian environment and traffic control	Citizen request	No CIP Funding Programmed
36	Wilmington Street	Morgan Street to South Street	Rehab - Priority Pedestrian Street Implementation/ Design Planning	Reconfigure roadway and sidewalks, trees and street furniture, undergrounding utilities, traffic calming	2030 Comp Plan – Action Plan, Downtown Raleigh (DT-2.6)	No CIP Funding Programmed
37	Wilmington Street @ MLK, Jr Blvd.	Intersection of Wilmington Street with MLK Jr. Boulevard	New infrastructure/Construction Planning	Intersection calming with possible traffic-circle for pedestrian safety.	2030 Comp Plan – Action Plan, South Park Area Plan (AP-SP 1)	No CIP Funding Programmed

Project Benefits											Project Feasibility								
	2030 Comp Plan Action Item	Reinvestment Area	Infrastructure/Appealance Enhancement	Pedestrian Safety	Pedestrian Demand	Cycling Accomodation	Traffic Volume	Transit Support	Return on Investment	Benefits Sub-Total	Funding in CIP	Inclusion in Other CIP Projects	Level of Planning	Reasonableness of Costs	Leverages Outside Funds	Partnerships	Feasibility Sub-Total	Total Points	Project Length (feet)
Streetscape Project	0 to 2	0 to 2	0 to 2	0 to 3	0 to 2	0 or 3	0 to 2	0 to 2	0 to 3	Max 21	0 to 2	0 to 1	0 to 3	0 to 3	0 to 2	0 to 1	Max 12	Max Total 33	
Construction Planning																			
Hillsborough Street - Rosemary*	0	1	2	3	2	3	2	1	3	17	1	1	2	2	0	1	7	24	*2475
Hillsborough Street - Gorman*	0	1	2	3	2	3	2	1	3	17	1	0	2	2	0	1	6	23	*1957 *6563
Downtown West Gateway	2	2	2	2	2	0	0	2	3	15	1	0	1	2	2	1	7	22	3,247
Hillsborough St - Cameron Park*	2	0	0	3	2	3	2	1	3	16	0	1	2	3	0	0	6	22	*2131
Blue Ridge Road - South	0	0	2	3	2	3	2	2	0	14	1	1	1	2	2	1	8	22	3,157
Peace Street East	2	1	1	1	1	3	1	2	3	15	0	0	1	2	2	1	6	21	3,228
Hillsborough Street - Westview	0	1	2	3	2	3	1	2	2	16	0	0	1	1	2	1	5	21	3,602
Downtown Public Realm	2	1	2	2	2	0	0	2	2	13	0	1	1	3	0	1	6	19	39,000
Person Street	0	0	0	2	2	3	0	2	3	12	2	0	1	3	0	1	7	19	1,278
Oberlin Road	2	1	1	1	1	3	1	1	2	13	1	1	1	2	0	1	6	19	3,804
Poole Road	1	2	2	1	1	3	0	0	2	12	1	0	1	2	0	0	4	16	6,156
Five Points	0	0	2	3	2	0	2	1	1	11	0	0	1	1	1	0	3	14	2,288
Design Planning																			
New Bern Avenue	0	1	1	3	2	3	2	1	1	14	0	1	0	1	1	1	4	18	8,745
Blue Ridge Road - North	0	0	1	3	1	3	2	1	1	12	0	0	0	2	2	1	5	17	7,102
New Bern Avenue East	1	2	2	2	1	0	2	1	1	12	0	0	1	1	1	0	3	15	13,684
Wilmington Street - MLK, Jr. Blvd	2	1	1	3	1	0	2	1	0	11	0	0	1	1	1	0	3	14	200
Olde East Raleigh Neighborhood	2	2	1	1	2	0	0	0	1	9	0	0	0	3	1	1	5	14	10,603
Whitaker Mill Road	0	0	0	1	1	3	1	2	1	9	0	0	1	3	0	0	4	13	3,484
Glenwood Avenue	0	0	1	3	1	3	2	1	0	11	0	0	0	1	1	0	2	13	6,877
Tarboro Rd / Oakwood Ave	0	2	1	1	1	0	1	0	1	7	0	0	0	2	2	1	5	12	3,546
Wake Forest Road	0	0	1	2	1	3	1	1	1	10	0	0	1	1	0	0	2	12	4,352
Trinity Road	2	0	1	1	1	3	0	0	0	8	0	0	0	2	1	1	4	12	5,802
Sanderford/Creech Rd	1	2	1	1	0	0	0	0	0	5	0	0	1	1	0	0	2	7	350

Streetscape Improvement Projects: Prioritization

Methodology

A qualitative scoring system for ranking proposed Streetscape Improvement Projects has been developed by the Department of City Planning and the Transportation Services division of the Department of Public Works. The system will be used to score and rank proposed streetscape projects based on an analysis of project benefits and project feasibility. Scores will be based on the best information available at the time of ranking, and should not be regarded as a definitive pronouncement on a project's worth. Rather, the scoring system can also help identify strengths and weaknesses of the proposed projects, and how any weaknesses could be rectified through project modifications or further planning. In this way, it is as much a tool for improving the benefits and feasibility of projects as for ranking and prioritizing them.

Project Benefits (21 points, 64 percent)

The Project Benefits category totals 21 points or 64 percent of total points in the scoring system. A total of nine project benefits are identified below, including a description and total scores. Benefits include implementation of adopted plans; improvements to community appearance; and enhancements to public safety and community value (investment).

2030 Comp Plan Action Item (2 points)

Projects that are not mentioned in the Comprehensive Plan get 0 points. Projects specifically identified as an action item get 1 point. Projects also identified in an adopted Area Plan or other special purpose plan receives 2 points.

Reinvestment Areas (2 points)

Projects that are located in a Target Area for Economic Development, as shown on Map ED-1 in the Comprehensive Plan are awarded 1 point. Projects located in a neighborhood in need of stabilization or revitalization (based on field observation) are also awarded 1 point. A maximum of 2 points may be awarded if both conditions are met.

Infrastructure/Appearance Enhancement (2 points)

Projects are scored based on the opportunity rectify existing deficiencies with regards to infrastructure adequacy and community appearance. Projects that upgrade deficient or deteriorated infrastructure get one point, and those that have a significant positive appearance impact get an additional point.

Pedestrian Safety (3 points)

Projects get between 0 and 3 points based on analysis of pedestrian accidents within the project area. Projects receive points based on a quartile score when compared with other project street segments, based on the number of pedestrian accidents recorded in the project area.

Pedestrian Demand (2 points)

While pedestrian counts are not available for most project areas, projects are assigned points based on observed levels of pedestrian activity; evidence of pedestrian activity (i.e. “goat trails” or “desire lines”); and whether the built form is of a type that typically generates pedestrian activity.

Cycling Accommodation (3 points)

Projects are awarded either 0 or 3 points based upon the inclusion of bike facilities in the scope of the streetscape project. Projects with bike facilities receive 3 points.

Traffic Volume (2 points)

The purpose of this category is to prioritize projects located in highly-trafficked, hence highly visible locations. Roadways with an Average Daily Traffic (ADT) counts of less than 10,000 vehicles/day get 0 points; 10,000 to less than 20,000 ADT, 1 point; and 20,000 and above ADT, 2 points.

Transit Support (2 points)

Projects receive 1 point for being located on an identified Multi-Modal Corridor in the Comprehensive Plan, and an additional point if also located within a half-mile of a fixed-guideway transit station. Two points are automatically awarded if within a quarter-mile of a fixed-guideway transit station.

Return on Investment (3 points)

This category requires an assessment of the extent to which the project has the potential to catalyze private investment, based on the presence of development/redevelopment sites, commercial potential, and market demand. Projects targeting corridors where little development is possible or anticipated will be awarded low scores, while projects with significant development potential will receive high scores. The score will be based in large part on a “soft site” inventory along the corridors. As a rough rule of thumb, private investment needs to be 15 times the level of public investment to reach a rough break-even in terms of tax increment versus capital debt service.

Project Feasibility (12 points, 36 percent)

Project feasibility measures the likelihood of the project obtaining funding and moving forward to implementation. By definition, projects more advanced in the planning stages will score higher in many of these categories, and so feasibility rankings can be expected to change over time as project plans are developed. Projects with strong benefit scores but low feasibility scores should be targeted for more detailed future planning. Twelve points can be awarded across 6 categories.

Funding in CIP (2 points)

Projects with no prior CIP funding would be awarded 0 points. Those with funding less than estimated project costs get 1 point, and those with sufficient funding are awarded 2 points.

Inclusion in Other CIP Project (1 point)

Project are given 1 point if they can piggy-back on another scheduled capital project, such as a utility line replacement, a roadway resurfacing, or other public investment.

Level of Planning (3 points)

Projects that are simply an idea are awarded 0 points. Projects with a completed concept plan get 1 point, and projects with schematic designs and reliable cost estimates get 2 points, and projects with design development or construction documentation receive 3 points.

Reasonableness of Costs (3 points)

Projects are awarded points based on estimated costs per linear unit. To avoid penalizing urban projects with more intensive streetscape interventions, the scoring should take into account whether the costs involved in the project are higher or lower than what would be typical for similar projects.

Leverages Outside Funds (2 points)

Projects are awarded points to based on the likelihood that the project can leverage state, federal or private dollars in addition to City capital dollars. One point is awarded if the contribution is anticipated to be less than 25 percent of project costs, and two points are given if it is greater.

Partnerships (1 point)

Projects are given 1 point to the extent that partners, such as private developers, NCDOT, or other outside agencies, are available and willing to partner in implementation.