

Table of Contents

Executive Summary

Section 1: Introduction and Goals

1.1 Introduction

1.2 Goals

Section 2: Current Conditions

2.1 Introduction

2.2 Existing Conditions Analysis

2.3 Built Environment Facilities

2.4 Bicycle-Automobile Crash Analysis

2.5 Demographic Analysis

2.6 Existing Needs

Section 3: Existing Policies, Plans, and Programs

3.1 Introduction

3.2 Plan Review

3.3 Current Policy Discussion

Section 4: Project Development

4.1 Introduction

4.2 Projects

4.3 Planned NCDOT Projects

4.4 Planned Town Projects

4.5 Greenway Priorities

4.6 New Proposed Projects

Section 5: Project Priorities

5.1 Introduction

5.2 Basic Project Cost Estimates

5.3 Project Priorities

Section 6: Ancillary Facilities and Programs

6.1 Introduction

6.2 Programs

6.3 Ancillary Facilities

6.4 Policy Recommendations

Section 7: Design Guidelines

7.1 Introduction

7.2 Design Guidelines

7.3 Summary of Recommendations

Section 8: Implementation

8.1 Introduction

8.2 Scheduling and Partners

8.3 Funding Sources and Recognition Programs

8.4 Funding Sources

8.5 Recognition Programs

8.6 Conclusion and Next Steps

Appendix 1: Demographic Analysis

Appendix 2: Community Survey

Appendix 3: Projects

Appendix 4: Bicycle Parking Ordinance



TABLES

- Table 2-1.** Roadway classifications in Wake Forest.
- Table 2-2.** Planned bicycle facilities in the 2003 Wake Forest Transportation Plan.
- Table 2-3.** Priority pedestrian corridors in the 2007 Wake Forest Pedestrian Plan.
- Table 2-4.** Schools and activity centers in Wake Forest as of January 2007.
- Table 2-5.** Bicycle crash rates for 11 NC Towns, 1997-2005.
- Table 2-6.** Travel time to work of Wake Forest residents (in minutes).
- Table 3-1.** Bicycle facility type and safety.
- Table 4-1.** Planned TIP projects (roadway and bicycle) in Wake Forest.
- Table 4-2.** CAMPO planned projects in Wake Forest.
- Table 4-3.** Planned bicycle facilities in the 2003 Wake Forest Transportation Plan.
- Table 4-4.** Priority pedestrian corridors in the 2007 Wake Forest Pedestrian Plan.
- Table 4-5.** Priority greenway projects established by the Wake Forest Greenway Committee (2007).
- Table 4-6.** FHWA matrix for bicycle facility treatments.
- Table 5-1.** Short-term on-road priority bicycle projects in Wake Forest.
- Table 5-2.** Mid-term on-road priority bicycle projects in Wake Forest.
- Table 5-3.** Long-term on-road priority bicycle projects in Wake Forest.
- Table 7-1.** Bicycle Facility Types.
- Table 8-1.** Short-term project recommendations.
- Table 8-2.** Short-term program recommendations.
- Table 8-3.** Short-term policy recommendations.
- Table 8-4.** Mid-term project recommendations.
- Table 8-5.** Mid-term program recommendations.
- Table 8-6.** Mid-term policy recommendations.
- Table 8-7.** Long-term project recommendations.
- Table 8-8.** Long-term program recommendations.
- Table 8-9.** Long-term policy recommendations.

FIGURES

- Figure 2-1.** Functional classification of existing and proposed roads in Wake Forest.
- Figure 2-2.** Locations of planned bicycle facilities in the 2003 Wake Forest Transportation Plan.
- Figure 2-3.** Map of existing and proposed greenway facilities in the Wake Forest Open Space and Greenways Plan.
- Figure 2-4.** Map of existing sidewalks and priority pedestrian corridors in the 2007 Wake Forest Pedestrian Plan.
- Figure 2-5.** Major activity centers in the Town of Wake Forest as of January 2007.
- Figure 2-6.** Map of schools and activity centers in Wake Forest as of January 2007.
- Figure 2-7.** Map of reported bicycle-automobile crashes in Wake Forest, 2003-2006.
- Figure 2-8.** Map of roads that stakeholders indicated as “comfortable” and “uncomfortable” for cyclists in Wake Forest.
- Figure 4-1.** Bicycle funding and construction graphic.
- Figure 4-2.** Map of proposed projects in the Wake Forest Bicycle Plan.
- Figure 5-1.** Project priorities for on-road bicycle facilities in Wake Forest.
- Figure 7-1.** Typical shared-use trail design.
- Figure 7-2.** Trail information installations for gateways between on-street facilities and greenway systems.
- Figure 7-3.** Innovative local access way graphics (bicycle wheel gutter and boardwalk bridge).
- Figure 7-4.** Neighborhood bicycle and pedestrian access way.
- Figure 7-5.** High-volume, high-speed roadway.
- Figure 7-6.** Side path with bike lanes on a high-volume, high-speed roadway.
- Figure 7-7.** Shared-use path on a high-volume, high-speed roadway.
- Figure 7-8.** Bike lane with on-street parking.
- Figure 7-9.** Wide outside curb lane and paved shoulder.
- Figure 7-10.** Neighborhood street.
- Figure 7-11.** Bike lane through intersection with free right-turn lanes.
- Figure 7-12.** Bicycle lane configurations at intersections.
- Figure 7-13.** Plan view of the bicycle box.
- Figure 8-1.** Project priorities for the Wake Forest Bicycle Plan.