

**TOWN OF ZEBULON
JOINT PUBLIC HEARING AGENDA
BOARD OF COMMISSIONERS AND PLANNING BOARD
April 9, 2017
7:00pm**

I. CALL TO ORDER

II. PUBLIC HEARING

A. ZA 2018-01 - An amendment to the Zebulon Multimodal Transportation Plan updating Appendix A and Appendix B.

III. ADJOURNMENT

A. ZA 2018-01 - An amendment to the Zebulon Multimodal Transportation Plan updating Appendix A and Appendix B.

Staff Report:

In April 2017, the Town of Zebulon Board of Commissioners adopted the most recent updates to the Zebulon Multimodal Transportation Plan. The recent increase in residential and commercial development necessitates a closer look at areas where the models used for the 2014 updates did not reflect the actual growth Zebulon is experiencing. Although the special use permits had already been approved for Weaver’s Pond and Taryn Meadows, other developments such as Waffle House, Sheetz, the widening of N. Arendell, and the subdivisions of Taryn Creek, Autumn Lakes, and Barrington are increasing traffic in a pattern that was not modeled in the 2014 update. The growth along current and potential corridors compels an update to the plan with current data to ensure proper roadway improvements are required at the time of development. Network connectivity and built-in redundancies will help maintain the flow of all traffic, including pedestrians, at the volumes we are expecting due to growth.

Mark Hetrick, Planning Director, has issued a separated memo which is attached to this staff report. Mr. Hetrick discusses the recommended improvements and updates. These updates include roadway widening to include an additional lane, curb and gutter, and sidewalks.

Attachments:

- (1) Notice of Public Hearing
- (2) Staff Memo – Mark Hetrick, Planning Director
- (3) Appendix A - Map
- (4) Appendix B - Cross Sections

Public Notice:

A notice of public hearing was published in the Eastern Wake News on March 30, 2018, and April 6, 2018.

Staff Recommendation:

Staff recommends approval of ZA 2018-01.

Requested Action:

Refer ZA 2018-01 to the Planning Board for recommendation.

**TOWN OF ZEBULON
PLANNING BOARD AGENDA
Zebulon Municipal Complex
April 9, 2018**

I. CALL TO ORDER

II. APPROVAL OF AGENDA

III. NEW BUSINESS

A. ZA 2018-01 - An amendment to the Zebulon Multimodal Transportation Plan updating Appendix A and Appendix B.

IV. STAFF REPORT

V. ADJOURNMENT

A. ZA 2018-01 - An amendment to the Zebulon Multimodal Transportation Plan updating Appendix A and Appendix B.

Staff Report:

In April 2017, the Town of Zebulon Board of Commissioners adopted the most recent updates to the Zebulon Multimodal Transportation Plan. The recent increase in residential and commercial development necessitates a closer look at areas where the models used for the 2014 updates did not reflect the actual growth Zebulon is experiencing. Although the special use permits had already been approved for Weaver’s Pond and Taryn Meadows, other developments such as Waffle House, Sheetz, the widening of N. Arendell, and the subdivisions of Taryn Creek, Autumn Lakes, and Barrington are increasing traffic in a pattern that was not modeled in the 2014 update. The growth along current and potential corridors compels an update to the plan with current data to ensure proper roadway improvements are required at the time of development. Network connectivity and built-in redundancies will help maintain the flow of all traffic, including pedestrians, at the volumes we are expecting due to growth.

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Public Notice:

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Staff Recommendation:

Staff recommends approval of ZA 2018-01.

Requested Action:

Recommend ZA 2018-01 to the Board of Commissioners.

Attachment 1

ZA 2018-01

Notice of Public Hearing



Town of Zebulon

The Town of Friendly People

To Whom It May Concern:
Notice of Public Hearing

Notice is hereby given pursuant to the provisions of Section 152.083 of the Land Use Code of the Town of Zebulon that a public hearing will be held on **April 9, 2018, at 7:00 PM**. The hearing will be held at the **Zebulon Municipal Complex, 1003 N. Arendell Ave.** and will be conducted by the Board of Commissioners and the Planning Board sitting jointly for the purpose of considering the following items:

ZA 2018-01. An amendment to the Zebulon Multimodal Transportation Plan updating Appendix A and Appendix B.

Interested resident citizens are encouraged to attend and be heard. Maps and other relevant information pertaining to these matters are available at the Zebulon Town Hall and are filed with the Planning Department.

N&O 3/30/18 & 4/6/18

FIRE DEPARTMENT
113 E. Vance Street
Zebulon, NC 27597
(919) 269-6487
Facsimile (919) 269-2618

POLICE DEPARTMENT
1001 N. Arendell Avenue
Zebulon, NC 27597
(919) 269-7455
Facsimile (919) 269-0312

TOWN HALL
1003 N. Arendell Avenue
Zebulon, NC 27597
(919) 269-7455
Facsimile (919) 269-6200

PUBLIC WORKS DEPARTMENT
450 E. Horton Street
Zebulon, NC 27597
(919) 269-5285
Facsimile (919) 269-2617

Attachment 2

ZA 2018-01

Staff Memo

Mark Hetrick, Planning Director



STAFF REPORT
MULTIMODAL TRANSPORTATION PLAN REVISIONS
March 21, 2018

Topic: Multimodal Transportation Plan Revisions

Speaker: Mark Hetrick, Planning Director
From: Mark Hetrick, Planning Director
Prepared by: Mark Hetrick, Planning Director

Executive Summary:

The Planning Board and Board of Commissioners will consider revisions to the Zebulon Multimodal Transportation Plan.

Background:

Town of Zebulon adopted the Zebulon Multimodal Transportation Plan in April 2001. The Board of Commissioners amended the Plan in May 2014 and April 2017.

Additional Plan revisions are needed to further address new developments strain on the existing transportation system. These revisions will incorporate previous Plan amendments, provide consistency between projects, include areas not previously covered, and address intersection improvements.

Policy Analysis:

The Zebulon Multimodal Transportation Plan is a policy document establishing Zebulon's transportation goals as laid out in Zebulon's Comprehensive Plan. The proposed updates would ensure these goals are met by recognizing current and potential growth corridors, and establishing standards for future developments along these corridors to ensure appropriate infrastructure installation, right of way widths, and sidewalk connectivity.

Fiscal Impact:

The proposed Transportation Plan changes would require future development to make the roadway improvements along the frontage of their property.

Discussion:

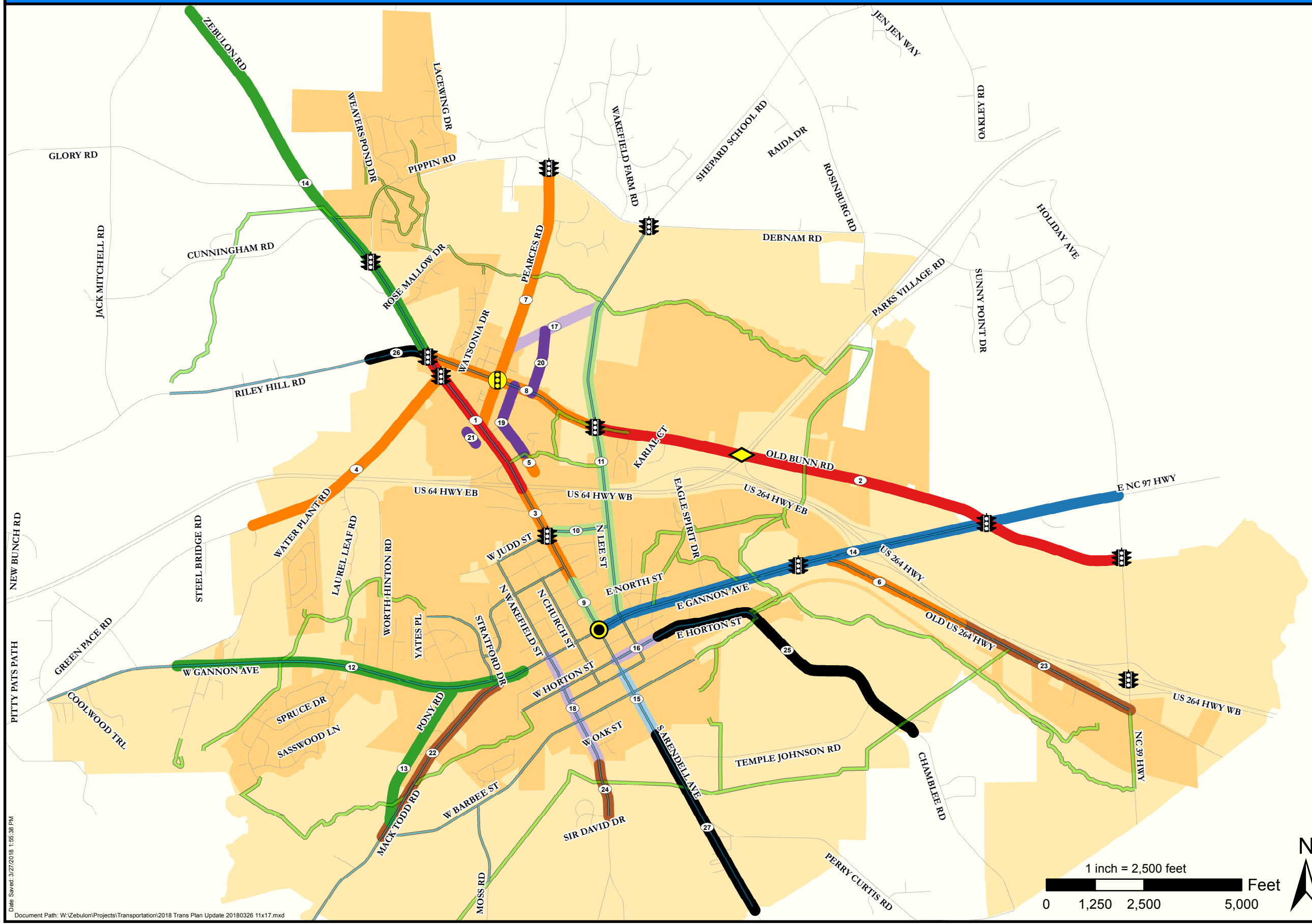
The discussion before the Board is whether amending the Zebulon Multimodal Transportation Plan meets the goals laid out in the Comprehensive Plan's transportation chapter. Revisions to the Plan include replacing "Appendix A: Project Map" and "Appendix B: Project Cross Sections" in the 2035 Plan Update dated May 2014 with the attachments provided. Updating these appendices will:

- a) Create consistency between the project map, cross section configurations, and recent projects.
- b) Manage additional growth and new development pressure.
- c) Incorporate the April 3, 2017 Board of Commissioner Plan updates.
- d) Incorporate areas not previously covered under the current Plan.
- e) Reference the Zebulon Greenway, Bicycle & Pedestrian Master Plan.
- f) Expand intersection and signalization improvements.

Attachment 3

ZA 2018-01
Appendix A

Town of Zebulon Multimodal Transportation Plan Appendix A



Legend

- Traffic Signal
- Traffic Circle
- Traffic Signal or Circle
- Bridge Improvements
- Consistent with NC 96 Study
- 3-Lane
- 3-Lane with Narrow 2-way Turn Lane
- 3-Lane with Ditch and Sidewalks
- 2-Lane Median Divided
- Downtown Transition
- 2-Lane with Sidewalk and Bicycles
- 2-Lane with Sidewalk (Option 1)
- 2-Lane with Sidewalk (Option 2)
- 2-Lane with Sidewalk (Option 3)
- Rural Roadway with Sidewalk and Bicycles
- Rural Roadway with Wide Paved Shoulders
- Bicycle and Pedestrian Improvements
- Greenway Corridor
- Zebulon Corporate Limits
- Zebulon ETJ

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Attachment 4

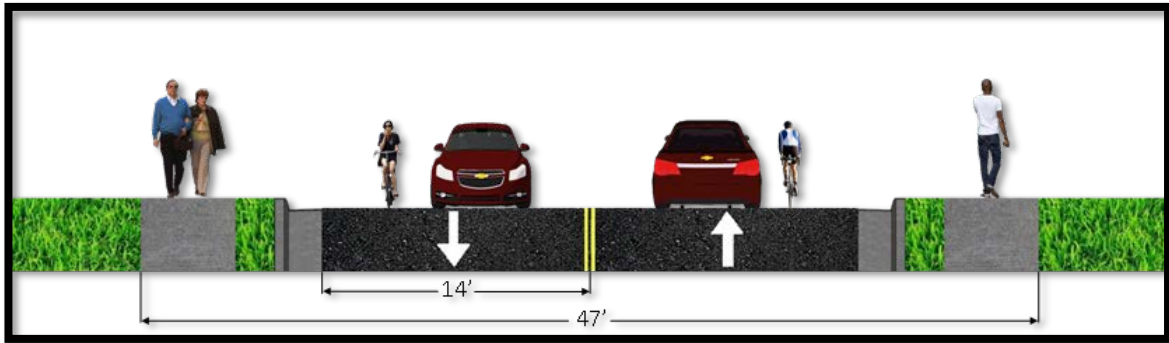
ZA 2018-01

Appendix B

Appendix B

Project Cross Sections

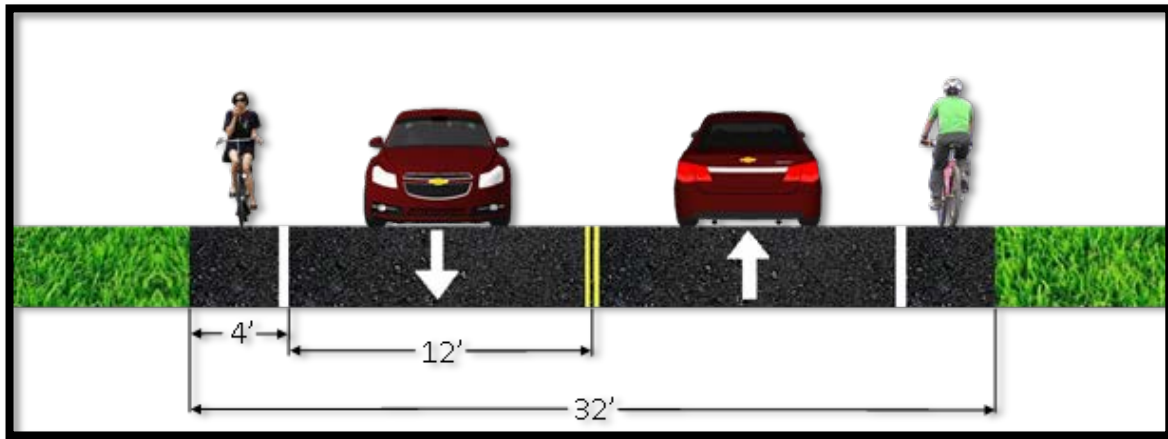
2-Lane with Sidewalk and Bicycles



This cross section configuration includes two, 14 foot lanes with curb and gutter and sidewalks on both sides of the roadway. The wide lane width could be used to accommodate bicycles. The total width from sidewalk to sidewalk is 47 feet.

Main Rd	From	To	Map Number
Horton St.	Arendell Ave.	Whitley St.	
Tippett Rd.	Pearces Rd.	Shepard School Rd.	
Wakefield St.	Town Limits	Gannon Ave.	

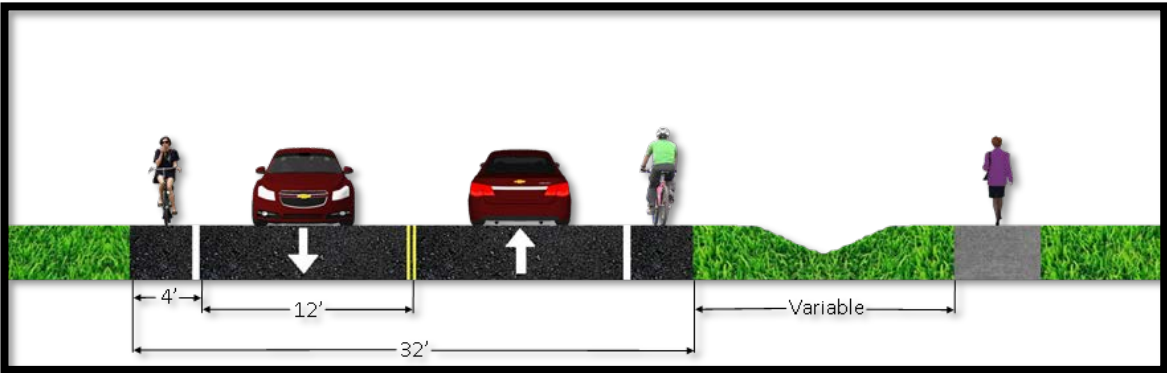
Rural Roadway with Wide Paved Shoulders



This cross section consists of two, 12 foot lanes with 4 foot paved shoulders that could accommodate bike lanes on both sides of the roadway. The total width of the pavement is 32 feet.

Main Rd	From	To	Map Number
Arendell Ave., South	Planning Jurisdiction	Town Limits	
Horton St.	Whitley St.	Planning Jurisdiction	
Riley Hill Rd.	Planning Jurisdiction	Arendell Ave.	

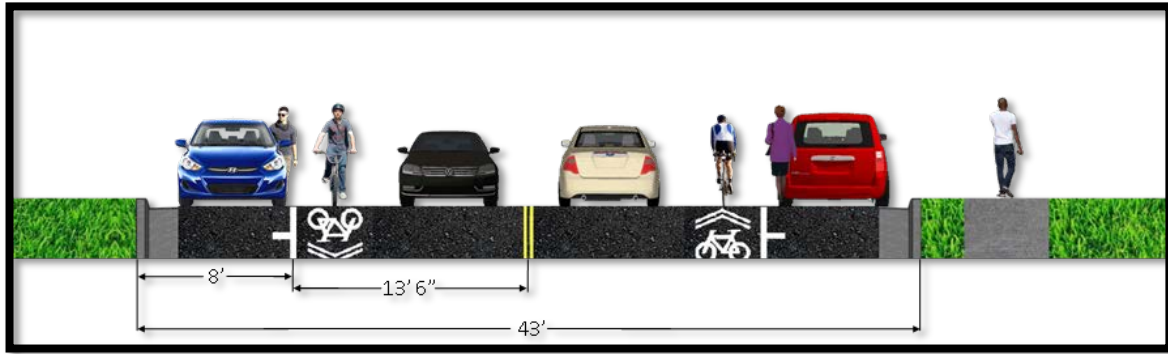
Rural Roadway with Sidewalk and Bicycles



This cross section consists of two, 12 foot lanes with 4 foot paved shoulders that could accommodate bicycle lanes. The cross section also features a side walk on one side that is separated from the road by a ditch. The distance of separation of the side walk is variable based on speed, volume, and the slope of the ditch. The total width of the pavement is 32 feet.

Main Rd	From	To	Map Number
Mack Todd Rd.	Barbee St.	Gannon Ave.	
Old US 264 Hwy.	0.70 miles South of Gannon Ave.	NC 39 Hwy.	
Wakefield St.	Sir David Dr.	Town Limits	

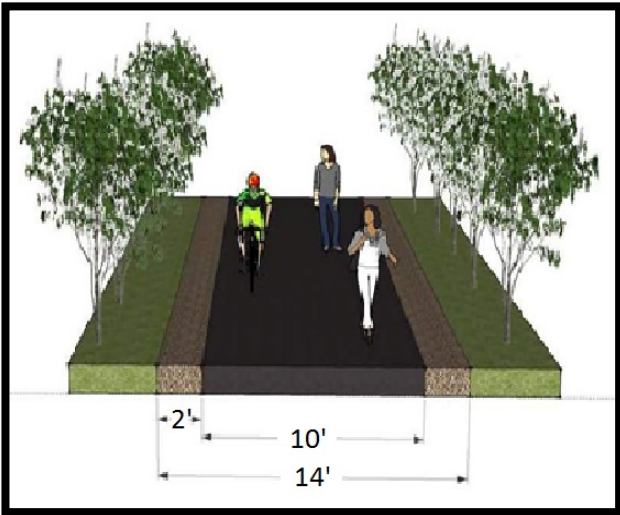
Downtown Transition



This cross section consists of two, 13 foot, 6 inch lanes with shared lane markings for bicycles, 8 foot on street parking lanes, and curb and gutters on both sides of the roadway. The cross section also has sidewalks on one side of the roadway. The total width from curb to curb is 43 feet.

Main Rd	From	To	Map Number
Arendell Ave., South	Town Limits	Vance St.	

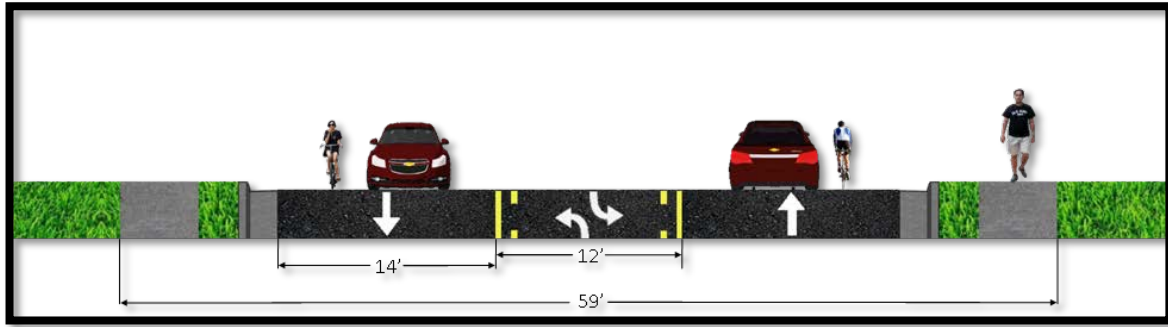
Greenway / Multi-Use Path



This cross section includes a 10 foot paved multi-use path that can accommodate pedestrian and bicycle traffic and 2 foot soft shoulders.

Main Rd	From	To	Map Number
<i>Any future greenway trail or system component shall be designed and developed according to the Town of Zebulon Greenway, Bicycle & Pedestrian Master Plan.</i>			

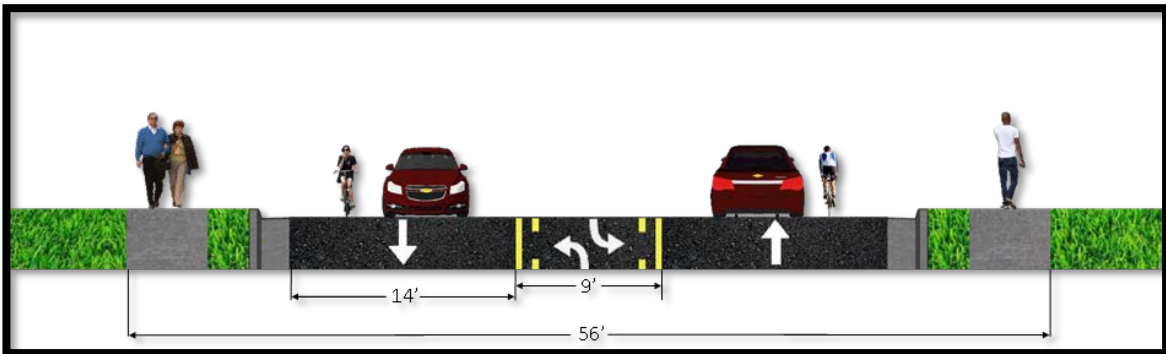
3-Lane



This cross section includes two 14 foot lanes and a 12 foot two-way center turn lane with curb and gutters. The wide lane width could be used to accommodate bicycles. The cross section also includes sidewalks on both sides of the roadway. The length from the edge of the sidewalk to the curb and gutter is 7 foot 6 inches. The total width from sidewalk to sidewalk is 59 feet.

Main Rd	From	To	Map Number
Arendell Ave.	Lee St.	US 64 Hwy.	
Debnam Rd.	Shepard School Rd.	Parks Village Rd.	
Green Pace Rd.	River Ridge Rd.	Arendell Ave.	
Jones St.	Dogwood Dr.	0.11 miles South of Dogwood Dr.	
Old US 264 Hwy.	Gannon Ave.	0.70 Miles South of Gannon Ave.	
Pearces Rd.	Arendell Ave.	Pippin Rd.	
Pippin Rd.	Zebulon Rd. (NC 96 Hwy.)	Shepard School Rd.	
Proctor St.	Arendell Ave.	Shepard School Rd.	

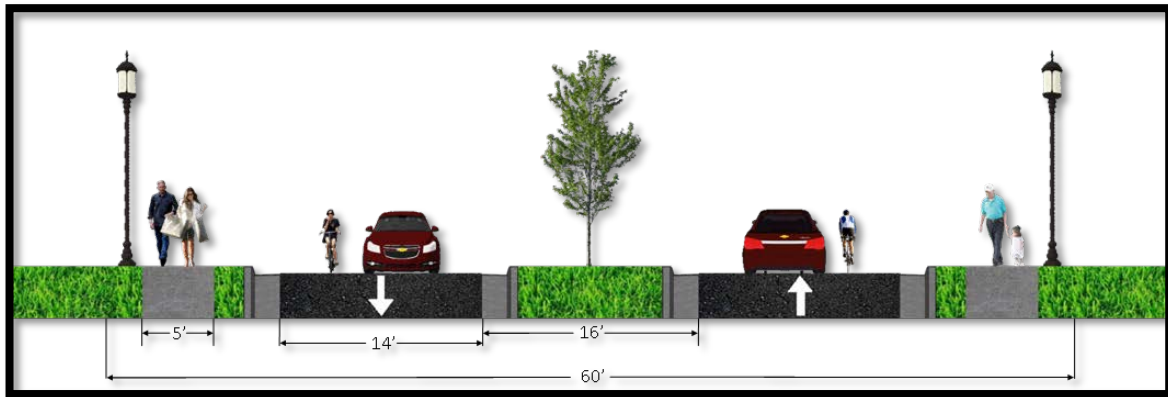
3-Lane with Narrow 2-way Left Turn Lane



This cross section includes two 14 foot lanes and a narrow 9 foot two-way center turn lane. The wide lane width could be used to accommodate bicycles. The cross section also includes sidewalks on both sides of the roadway. The total width of the cross section from sidewalk to sidewalk is 56 feet.

Main Rd	From	To	Map Number
Arendell Ave.	Gannon Ave.	Lee St.	
Judd St.	Arendell Ave.	Shepard School Rd.	
Shepard School Rd.	Gannon Ave.	Tippett Rd.	

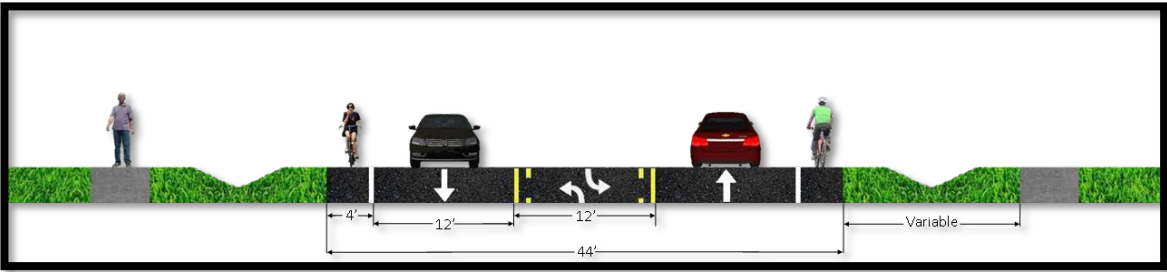
2-Lane Median Divided



This cross section includes two 14 foot lanes with curb and gutter, divided by a 16 foot terrain median that can support trees or other aesthetic vegetation. The wide lane width could be used to accommodate bicycles. The cross section also includes 5 foot sidewalks with 2 foot 6 inches of terrain on both sides. There are lamp posts posted along the sidewalks located within the far side terrain area. The total width of the cross section is 68 feet 2 inches.

Main Rd	From	To	Map Number
Gannon Ave.	Arendell Ave.	NC 39 Hwy.	

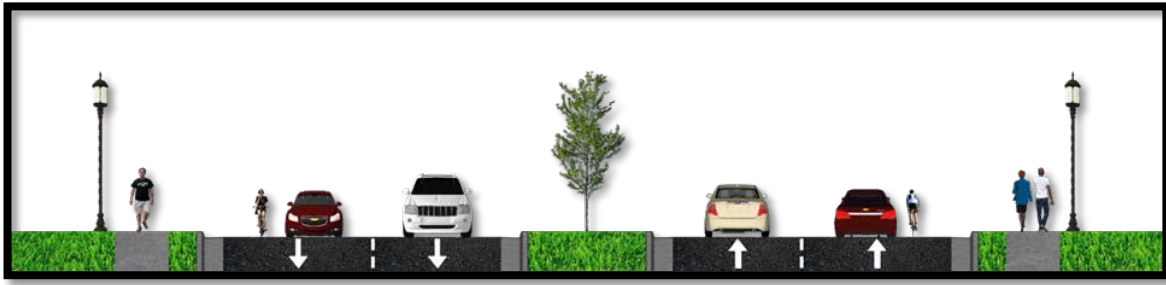
3-Lane with Ditch and Sidewalks



This cross section includes two 12 foot lanes, a 12 foot two-way center turn lane, and 4 foot paved shoulders on both sides of the roadway that could accommodate bicycle traffic. The cross section also features sidewalks on both sides that are separated by a ditch. The distance of separation of the side walk is variable based on speed, volume, and the slope of the ditch. The total width of the paved section is 44 feet.

Main Rd	From	To	Map Number
Gannon Ave.	Water Plant Rd.	Rotary Dr.	
Pony Rd.	Gannon Ave.	Mack Todd Rd.	
Zebulon Rd. (NC 96 Hwy.)	Ferrell Rd.	Proctor St.	

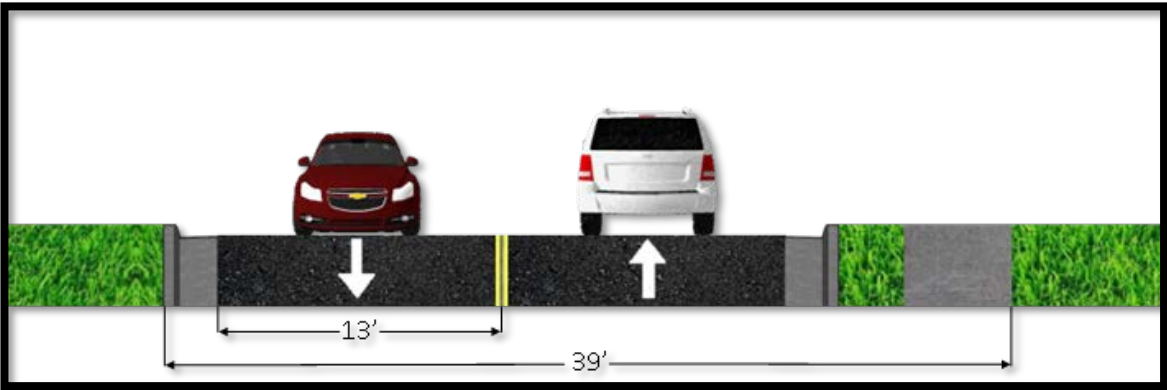
Consistent with NC 96 Study



The Town of Zebulon has recently conducted a corridor study of NC 96 / North Arendell Avenue. The preferred configuration developed as part of that study is attached to this plan. Please refer to Appendix C for the preferred configuration for this project. This cross section configuration will also be used for Old Bunn Road from Shepard School Road to NC 39 Highway.

Main Rd	From	To	Map Number
Arendell Ave.	Proctor St.	US 64 Hwy.	
Old Bunn Rd.	Shepard School Rd.	NC 39 Hwy.	

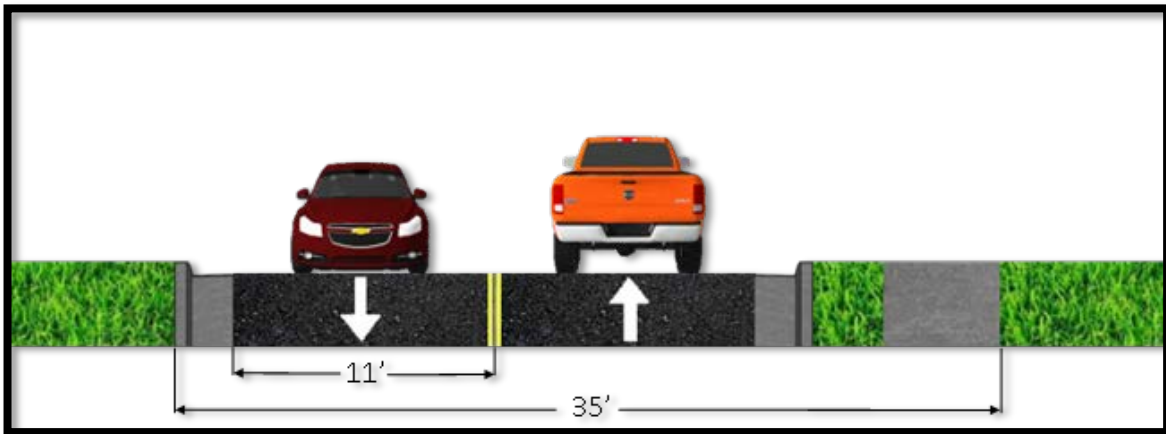
2-Lane with Sidewalk (Option 1)



This cross section includes two 13 foot lanes. The cross section also includes a sidewalk on one side of the roadway. The total width of the cross section from roadway to sidewalk is 39 feet.

Main Rd	From	To	Map Number
Jones St.	Dogwood Dr.	Proctor St.	

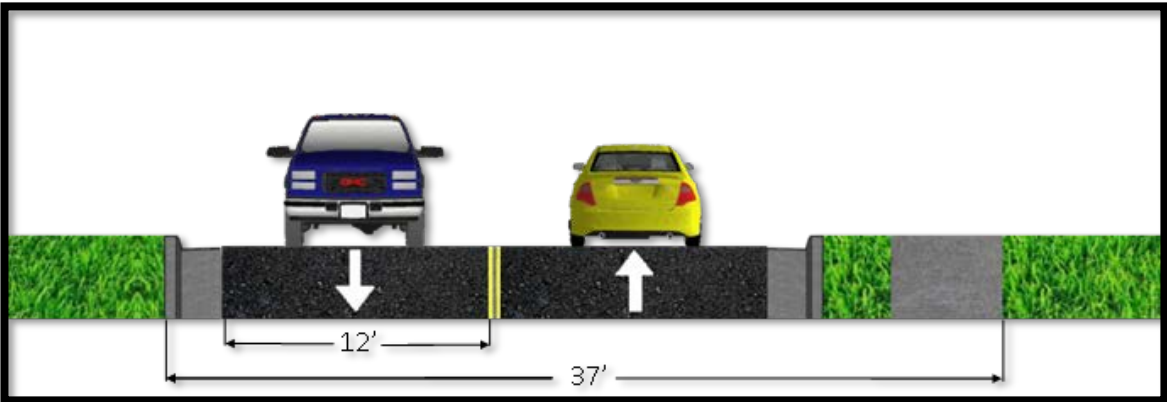
2-Lane with Sidewalk (Option 2)



This cross section includes two 11 foot lanes. The cross section also includes a sidewalk on one side of the roadway. The total width of the cross section from roadway to sidewalk is 35 feet.

Main Rd	From	To	Map Number
Mangum St.	Tippett Rd.	Proctor St.	

2-Lane with Sidewalk (Option 3)



This cross section includes two 12 foot lanes. The cross section also includes a sidewalk on one side of the roadway. The total width of the cross section from roadway to sidewalk is 37 feet.

Main Rd	From	To	Map Number
Service Rd.	SECU	Parrish Realty	