

**ORDINANCE NO. (2021) 291 TC 454  
(TC-3-21 – Bicycle Street Cross-Sections)**

**AN ORDINANCE TO REPEAL THE CURRENT STANDARDS CONTAINED IN  
ARTICLE 8.5 OF THE UNIFIED DEVELOPMENT ORDINANCE AND REPLACE  
WITH UNIFIED STANDARDS FOR NEW STREETS**

**WHEREAS**, the city of Raleigh Unified Development Ordinance and Raleigh Street Design Manual contain standards for new streets and expansion of existing streets; and

**WHEREAS**, the Unified Development Ordinance and Raleigh Street Design Manual contain development standards that are applied during subdivision and site plan review; and

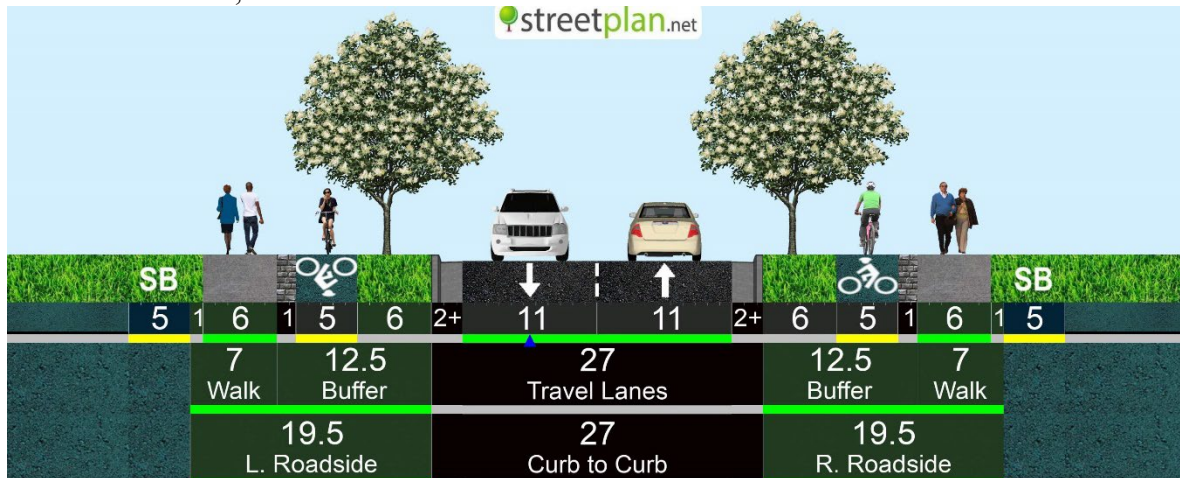
**WHEREAS**, the standards applied during administrative review must be objective in nature and equitably applied; and

**WHEREAS**, the adopted BikeRaleigh Plan and 2030 Comprehensive Plan call for the implementation of a network of bicycle facilities;

***NOW THEREFORE, BE IT ORDAINED BY THE CITY COUNCIL OF THE CITY OF RALEIGH THAT:***

**Section 1.** Sections 8.5.5 Mixed Use Streets of the Part 10 Raleigh Unified Development Ordinance, Street Types, is hereby amended by adding the following language shown in the underlined and removing the language shown in strikethrough:

A. Avenue 2-Lane, Undivided



[all graphics to be updated to same format as existing UDO post-adoption]

Width	
A Right-of-way width	64' 66"
B Back-of-curb to back-of-curb	36' 27"
Streetscape	
C Utility placement, easement	5'
D Maintenance strip (min)	2' 1'
E Sidewalk (min)	6'
F Buffer (min; paved or paver)	1.5'
G Bike Lane (min)	5'
FH Planting area (min)	6'
Travelway	
G Bike lane	7'
HJ Travel lane	11'
General	
Walkway type	Sidewalk
Planting type	Tree lawn
Tree spacing	40' o.c. avg.
Minimum Driveway Spacing	200'

The position of streetscape elements may be changed, provided that all of the following are met:

- No streetscape element is removed,
- That street trees are planted between the sidewalk (E) and the travelway,
- That street trees are not placed between the bike lane (G) and the travelway within 20 feet of a driveway or intersection, unless the bikeway crosses the driveway 20 lateral feet or more from the nearest turn or travel lane,
- That the maintenance strip (D) is at the outside edge of the right-of-way,
- That the sidewalk (E) is adjacent to the maintenance strip (D),
- That the bike lane (G) be located at least 1.5' from the back of curb, and
- That the sidewalk (E) and bike lane (G) tie to any existing bikeways and/or sidewalks on adjacent sites.

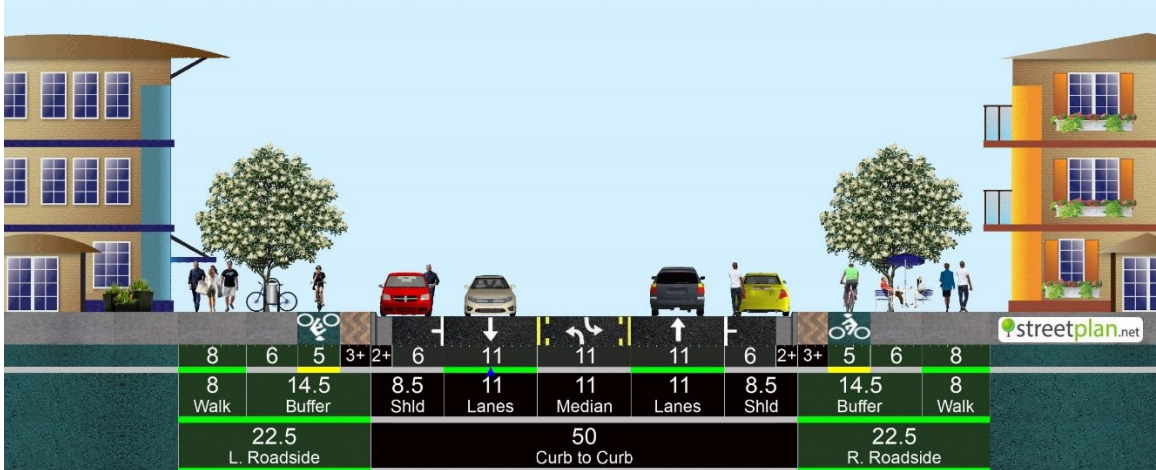
B. Avenue 2-Lane, Divided



Width	
A Right-of-way width	76'-81'
<del>With center turn lane</del>	80'
<del>With median</del>	
B Back-of-curb to back-of-curb	48'-38'
<del>With center turn lane</del>	52'
<del>With median</del>	
Streetscape	
<del>C Utility placement, easement</del>	5'
<del>D Maintenance strip (min)</del>	2'-1'
<del>E Sidewalk (min)</del>	6'
<del>F Planting area (min)</del>	6'
<del>F Bike Lane (min)</del>	5'
<del>G Buffer (min; planted, paved, or paver)</del>	3.5'
Travelway	
<del>G Bike lane</del>	7'
<del>H Travel lane</del>	11'
<del>I Center median or turn lane</del>	11'
<del>Striped turn lane</del>	15'
<del>Median</del>	
General	
Walkway type	Sidewalk
Planting type	Tree lawn
Tree spacing	40' o.c. avg.
Minimum Driveway Spacing	200'
The position of streetscape elements may be changed, provided that all of the following are met:	
<ul style="list-style-type: none"> <li>• <u>No streetscape element is removed,</u></li> <li>• <u>That street trees are planted between the sidewalk (D) and the travelway,</u></li> <li>• <u>That street trees not be placed between the bike lane (F) and the travelway within 20 feet of a driveway or intersection, unless the bikeway crosses the driveway 20 lateral feet or more from the nearest turn or travel lane,</u></li> <li>• <u>That the maintenance strip (C) remains at the outside edge of the right-of-way,</u></li> </ul>	

- That the sidewalk (D) remains adjacent to the maintenance strip (C),
- That the bike lane (F) be located at least 3.5' from the back of curb, and
- That the sidewalk (D) and bike lane (F) tie to any existing bikeways and/or sidewalks on adjacent sites.

C. Avenue 3-Lane, Parallel Parking

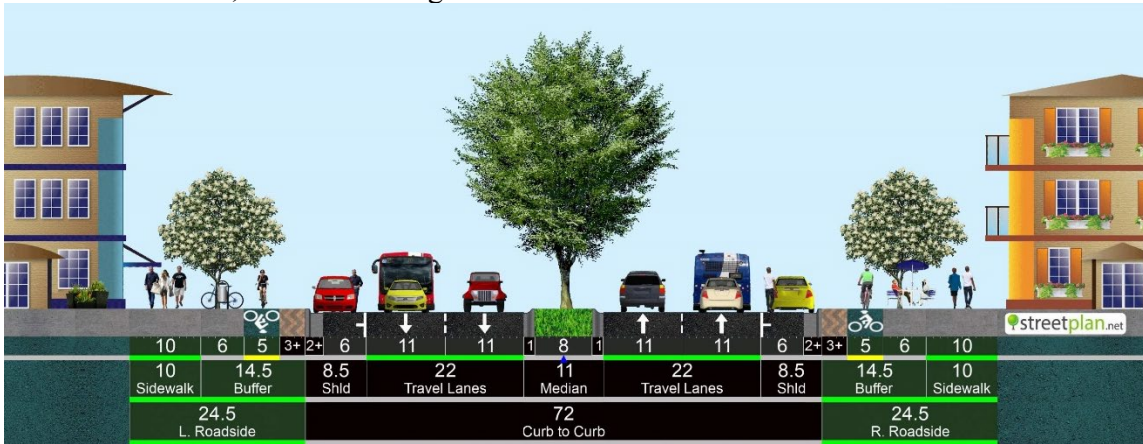


Width	
A Right-of-way width	90' <u>95'</u>
—With center turn lane	94'
—With median	
B Back-of-curb to back-of-curb	62' <u>50'</u>
—With center turn lane	66'
—With median	
Streetscape	
C Sidewalk (min)	8'
D Planting area(min)	6'
E Bike lane (min)	<u>5'</u>
F Buffer (min; planted, paved, or paver)	<u>3.5'</u>
Travelway	
E G Parallel parking lane	8.5'
F Bike Lane	6'
G H Travel lane	11'
H I Center median or turn lane	11'
—Striped turn lane	15'
—Median	
General	
Walkway type	Sidewalk
Planting type	Tree grate / lawn
Tree spacing	40' o.c. avg.
Parking type	Parallel
Minimum Driveway Spacing	<u>300'</u>
The position of streetscape elements may be changed, provided that all of the following are <u>met</u> :	

- No streetscape element is removed,
- That street trees are planted between the sidewalk (C) and the travelway,
- That street trees not be placed between the bike lane (E) and the travelway within 20 feet of a driveway or intersection, unless the bikeway crosses the driveway 20 lateral feet or more from the nearest turn or travel lane,
- That the sidewalk (C) remains at the outside edge of the right-of-way,
- That the bike lane (E) be located at least 3.5' from the back of curb, and
- That the sidewalk (C) and bike lane (E) tie to any existing bikeways and/or sidewalks on adjacent sites.

**Section 2.** Sections 8.5.6 Major Streets of the Part 10 Raleigh Unified Development Ordinance, Street Types, is hereby amended by adding the following language shown in the underlined and removing the language shown in strikethrough:

A. Avenue 4-Lane, Parallel Parking



Width	
A Right-of-way width	<del>122'</del> <u>121'</u>
B Back-of-curb to back-of-curb	<del>90'</del> <u>72'</u>
Streetscape	
C Sidewalk (min)	10'
D Planting Area (min)	6'
E Bike lane (min)	<u>5'</u>
F Buffer (min; planted, paved, or paver)	<u>3.5'</u>
Travelway	
<del>E</del> <u>G</u> Parallel parking lane	8.5'
<del>F</del> Bike lane	<del>6'</del>
<del>G</del> <u>H</u> Travel lane	11'
<del>H</del> <u>I</u> Median	<del>17'</del> <u>11'</u>
General	
Walkway type	Sidewalk
Planting type	Tree grate / lawn
Tree spacing	40' o.c. avg.
Parking type	Parallel
Minimum Driveway Spacing	<u>300'</u>

The position of streetscape elements may be changed, provided that all of the following are met:

- No streetscape element is removed,
- That street trees are planted between the sidewalk (C) and the travelway,
- That street trees not be placed between the bike lane (E) and the travelway within 20 feet of a driveway or intersection, unless the bikeway crosses the driveway 20 lateral feet or more from the nearest turn or travel lane,
- That the sidewalk (C) remains at the outside edge of the right-of-way,
- That the bike lane (E) be located at least 3.5' from the back of curb, and
- That the sidewalk (C) and bike lane (E) tie to any existing bikeways and/or sidewalks on adjacent sites.

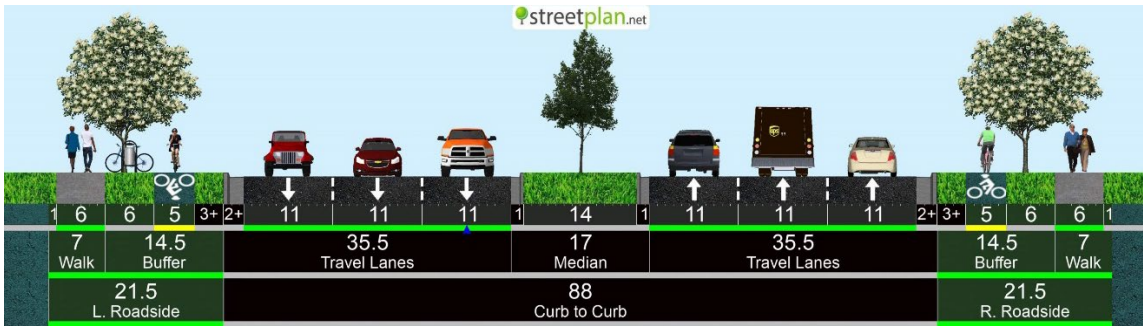
B. Avenue 4-Lane, Divided



Width	
A Right-of-way width	<u>104' 109'</u>
B Back-of-curb to back-of-curb	<u>76' 66'</u>
Streetscape	
<del>C Utility placement, easement</del>	<u>5'</u>
<del>D Maintenance strip (min)</del>	<u>2' 1'</u>
<del>E Sidewalk (min)</del>	<u>6'</u>
<del>F Planting area (min)</del>	<u>6'</u>
<u>F Bike lane (min)</u>	<u>5'</u>
<u>G Buffer (min; planted, paved, or paver)</u>	<u>3.5'</u>
Travelway	
<del>G Bike lane</del>	<u>7.5'</u>
H Travel lane	<u>11'</u>
I Median	<u>17'</u>
General	
Walkway type	Sidewalk
Planting type	Tree grate / lawn
Tree spacing	40' o.c. avg.
<u>Minimum Driveway Spacing</u>	<u>300'</u>
The position of streetscape elements may be changed, provided that all of the following are met:	
<ul style="list-style-type: none"> <li>• <u>No streetscape element is removed,</u></li> </ul>	

- That street trees are planted between the sidewalk (D) and the travelway,
- That street trees not be placed between the bike lane (F) and the travelway within 40 feet of a driveway or intersection, unless the bikeway crosses the driveway 20 lateral feet or more from the nearest turn or travel lane,
- That the maintenance strip (C) remains at the outside edge of the right-of-way,
- That the sidewalk (D) remains adjacent to the maintenance strip (C),
- That the bike lane (F) be located at least 3.5' from the back of curb, and
- That the sidewalk (D) and bike lane (F) tie to any existing bikeways and/or sidewalks on adjacent sites.

C. Avenue 6-Lane Divided



Width	
A Right-of-way width	<u>126' 131'</u>
B Back-of-curb to back-of-curb	<u>98' 88'</u>
Streetscape	
C Utility placement, easement	5'
D Maintenance strip (min)	<u>2' 1'</u>
E Sidewalk (min)	6'
F Planting area (min)	6'
F Bike lane (min)	<u>5'</u>
G Buffer (min; planted, paved, or paver)	<u>3.5'</u>
Travelway	
G Bike lane	<u>7.5'</u>
H Travel lane	11'
I Median	17'
General	
Walkway type	Sidewalk
Planting type	Tree grate / lawn
Tree spacing	40' o.c. avg.
Minimum Driveway Spacing	<u>300'</u>

The position of streetscape elements may be changed, provided that all of the following are met:

- No streetscape element is removed,
- That street trees are planted between the sidewalk (D) and the travelway,
- That street trees not be placed between the bike lane (F) and the travelway within 40 feet of a driveway or intersection, unless the bikeway crosses the driveway 20 lateral feet or more from the nearest turn or travel lane,

- That the maintenance strip (C) remains at the outside edge of the right-of-way,
- That the sidewalk (D) remains adjacent to the maintenance strip (C),
- That the bike lane (F) be located at least 3.5' from the back of curb, and
- That the sidewalk (D) and bike lane (F) tie to any existing bikeways and/or sidewalks on adjacent sites.

**Section 3.** The Raleigh Street Design Manual shall be updated in accordance with the approved language contained within the ordinance.

**Section 4.** All laws and clauses of laws in conflict herewith are repealed to the extent of such conflict.

**Section 5.** If this ordinance or application thereof to any person or circumstance is held invalid, such invalidity shall not affect other provisions or applications of the ordinance which can be given separate effect and to this end the provisions of this ordinance are declared to be severable.

**Section 6.** This text change has been reviewed by the Raleigh Planning Commission.

**Section 7.** This ordinance has been adopted following a duly advertised public hearing of the Raleigh City Council.

**Section 8.** This ordinance has been provided to the North Carolina Capital Planning Commission as required by law.

**Section 9.** This ordinance shall be enforced as provided in N.C.G.S. 160A-175 or as provided in the Raleigh City Code. All criminal sanctions shall be the maximum allowed by law notwithstanding the fifty-dollar limit in N.C.G.S. §14-4(a) or similar limitations.

**Section 10.** This ordinance is effective 45 days after adoption.

**Adopted:** October 5, 2021

**Effective:** November 19, 2021

**Distribution:** Planning & Development – Young, Bowers, Crane, Waddell, Ray, Rametta, Hosey, Bailey-Taylor  
Transportation – Moore, Kallam, Lamb, Black, Myers  
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