A RESOLUTION ADOPTING A STATEMENT EXPLAINING THE BOARD OF ALDERMEN'S REASONS FOR ADOPTING AN AMENDMENT TO THE TEXT OF THE CARRBORO LAND USE ORDINANCE Resolution No. 65/2007-08

WHEREAS, an amendment to the text of the Carrboro Land Use Ordinance has been proposed, which amendment is described or identified as follows: An Ordinance Amending the Carrboro Land Use Ordinance to Modify Sight Distance Requirements

NOW THEREFORE, the Board of Aldermen of the Town of Carrboro Resolves:

Section 1. The Board concludes that the above described amendment is consistent with the Town of Carrboro Land Use Ordinance, Section 15-215.

Section 2. The Board concludes that its adoption of the above described amendment is reasonable and in the public interest because the Town seeks for public streets to be designed in such a way that their final grades shall as closely as practicable conform to original topography.

Section 3. This resolution becomes effective upon adoption.

A RESOLUTION ADOPTING A STATEMENT EXPLAINING THE BOARD OF ALDERMEN'S REASONS FOR REJECTING AN AMENDMENT TO THE TEXT OF THE CARRBORO LAND USE ORDINANCE Resolution No. 66/2007-08

WHEREAS, an amendment to the text of the Carrboro Land Use Ordinance has been proposed, which amendment is described or identified as follows: An Ordinance Amending the Carrboro Land Use Ordinance to Modify Sight Distance Requirements

NOW THEREFORE, the Board of Aldermen of the Town of Carrboro Resolves:

Section 1. The Board concludes that the above described amendment is not consistent with Town of Carrboro Land Use Ordinance.

Section 2. The Board concludes that its rejection of the above described amendment is reasonable and in the public interest because existing policies are sufficient.

Section 3. This resolution becomes effective upon adoption.

** DRAFT 11-19-07 **

AN ORDINANCE AMENDING THE CARRBORO LAND USE ORDINANCE RELATING TO SIGHT DISTANCES AT INTERSECTIONS

THE BOARD OF ALDERMEN OF THE TOWN OF CARRBORO ORDAINS:

- Section 1. Appendix C-1, Sight Distances at Intersection of the Land Use Ordinance, is revised by the addition of a new subsection (a) that reads as follows:
- (a) The design speed, sight distance and centerline radii shall be constructed according to the table above. For stop conditions, sight distance may be designed per the criteria listed in the NCDOT Subdivision Roads Minimum Construction Standards manual (2000) or the most recent version of that document, so long as such standards will result in a street layout with a demonstrable environmental benefit.
- Section 2. All provisions of any town ordinance in conflict with this ordinance are repealed.
 - Section 3. This ordinance shall become effective upon adoption.

Appendix C

SPECIFICATIONS FOR DESIGN AND CONSTRUCTION

(AMENDED 04/03/90)

C-1. Design Speed, Sight Distance, Centerline Radius

	MINOR	LOCAL	SUBCOLLECTOR	COLLECTOR	ALLEY
DESIGN SPEED	25 мрн	25 мрн	30 мрн	30 мрн	15 мрн
MINIMUM SIGHT DIS- TANCE ON VERTICAL CURVE	150'	150'	200'	200'	110'
MINIMUM CENTER-LINE RADIUS	150'	150'	200'	230'	90'

(AMENDED 09/27/94; 11/28/06)

C-2. Cut and Fill Slopes

Cut and fill slopes on any street right-of-way may not exceed 2:1.

C-3. Sight Distances at Intersections

- (a) At non-stop intersections, the intersection shall be constructed so that a person standing at a location on the centerline of any street 90 feet from the intersection of the street centerlines has an unobstructed view to a point located on the centerline of the intersecting street 90 feet (in either direction) from the intersection of the street centerlines. See Standard Diagram No. 1.
- (b) Subject to subsection (c), at stop intersections, the intersection shall be constructed so that a person standing 10 feet back of the intersection of right-of-way lines on the stop street has an unobstructed view to a point on the right-of-way line of the intersecting through street located 70 feet from the intersection of the right-of-way lines. See Standard Diagram No. 2.
- (c) At stop intersections where a residential street intersects with a state-maintained primary road (U.S. or N.C.), the intersection shall be constructed so that a person standing 30 feet back of the intersection of right-of-way lines on the stop street has an unobstructed view to a point on the centerline of the through street located 150 feet from the intersection of the street right-of-way lines. See Standard Diagram No. 3.

C-4. Radius at Street Intersections

At street intersections, the intersections of the paved surfaces shall be rounded with a minimum radius as shown in Standard Diagram No. 4 and No. 5. Where streets intersect at less that right angles, a greater radius may be required.

DIVISION OF HIGHWAYS

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

SUBDIVISION ROADS



MINIMUM
CONSTRUCTION
STANDARDS

JANUARY 2000

MINIMUM DESIGN CRITERIA K.

1. Local Residential Subdivision Roads include:

- Cul-De-Sacs
- b.
- Dead End Roads Less than 2500 feet in length Short connecting Roads One block long or that extend on a block by block basis
- c. d. Loop Roads - Less than 1 mile in length
- Other roads that do not connect thoroughfares or serve major traffic generators. These roads do not have "collector" characteristics.

TERRARIO ACCITICATION		TT 151 D	OT I DIG	****
TERRAIN CLASSIFICATION Terrain Classification Definition	Ī	<u>EVEL</u> <u>R</u>	OLLING	HILLY
Level -Cross slope range of 0% to 8%				
Rolling - Cross slope range of 8.1% to 159 Hilly - Cross slope over 15%	%			
Right of Way Width				
Curb and Guner Section		40'	40'	40'
Shoulder Section		45'	45'	45'
Pavement Width				
Curb and Gutter Section		*26' G-G 18'	*26' G-G	*26' G-G
Shoulder Section G-G refers to face to face of standard curl	h and gutter section, bottom		18'	18'
to the bottom of the "V" for the valley ty reviewed by the District Engineer with the	pes section. Other types wi			
Minimum Shoulder Width		_		
Shoulder Section	annound by the District Ene	6'	4' to 6'	4' to 6'
Shoulder width between 4' to 6' shall be a considering adjacent land characteristics	ipproved by the District Eng	ineci		
Maximum Cut and Fill Slopes		2:1	2:1	1 1/2:1
Design Speed		30 mph	25 mph	20 mph
Minimum Sight Distance				
on Vertical Curves		200'	150'	110'
Minimum Centerline Radius		230'	150'	90
Minimum Superelevation Rate for Minimum Radius	S	.06 ft/ft	.04 ft/ft	.02 ft/ft
Maximum Grade		9%	12%	18%
Grades for 100' each way from intersection exc				
may be reviewed by District Engineer for cons Grades less than 0.5 percent should not be used	d unless reviewed			
individually by the District Engineer to determ				
maintenance problems.	•			
K = Rate of Vertical Curvature				
for Minimum Sight Distance.	1000	20		10
' CRE SAG		30 30	20 20	10 10
STO		14	9	5
Formula for determination of length of v	ertical curve required			
to provide minimum site distance.				
[L = KA]				
L = Length of vertical curve in feet				
K = Rate of vertical curvature in fe A = Algebraic difference in grades				
Minimum Cul-De-Sac Radius				
Right of Way				
Curb and Guner Section		45'	45'	45'
Shoulder Section		50'	50'	50'
Minimum Cul -De-Sac Radius			A	
Curb and Guner Section Shoulder Section * (See page 28)		37' to G	37' to G	37'to G
Shoulder Section (See page 28)		35'	35'	35'

2. Residential Collector Roads include:

- Dead End Roads More than 2500 feet in length
 Connecting roads between the local residential subdivision roads and the thoroughfare system
 Loop Roads More than one (1) mile in length
 Other roads having a "collector" type function in the thoroughfare system b.
- c.
- d.

TERRAIN CLASSIFICATION	LEVEL	ROLLING	HILLY
Terrain Classification Definition Level - Cross slope range of 0% to 8% Rolling - Cross Slope range of 8.1% to 19 Hilly - Cross slope over 15%	5%		
Right of Way Width			
Curb and Gutter Section	· 50°	50'	50'
Shoulder Section	50'	50'	50'
Pavement Width			
Curb and Gutter Section	34' G-G	34' G-G	34' G-G
Shoulder Section	20'	20'	20'
G-G refers to face to face of standard curb the bottom of the "V" for the valley types the Division Engineer with the G-G limits	and gutter section, bottom of the "V" to section. Other types will be reviewed by		20
Minimum Shoulder Width			
Shoulder Section	6'	6	6'
Maximum Cut and Fill Slopes	2:1	2:1	1 1/2:1
Design Specd	35 mph	30 mph	25 mph
Minimum Sight Distance			
Vertical Curves	250'	200'	150'
	•		
Minimum Centerline Radius	310'	230'	150'
Minimum Superelevation Rate			
for Minimum Radius	.08 ft/ft	.06 ft/ft	.04 ft/ft
Maximum Grade	6%	9%	12%
Grades for 100' each way from intersective reviewed by District Engineers for consistent of the used unless reviewed individual to the used to the use	on exceeding 5 percent (%) may be deration. Grades less than 0.5 percent vidually by the District Engineer to		
K = Rate of Vertical Curvature			
for minimum sight distance	DECT 46	20	20
	REST 45	30	20
	AG 45	30	20
S S	TOP 20	14	9

Formula for determination of length of vertical curve required to provide minimum sight distance.

[L = KA]
L = Length of vertical curve in feet
K = Rate of vertical curvature in feet per percent of A
A = Algebraic difference in grades in percent

	Resider	ntial St	reets T	own o	f Carrbo	٥	Residential Streets Town of Carrboro		NCDO	r Subdiv	vision	Streets	NCDOT Subdivision Streets Manual		
Standard	15	25	30 A	lley	Minor	Local	Subcollector	Collector	Local			Ŏ	Collector		
									Level	Rolli	E E	illy Le	evel Re	olling ∤	HI,
Design Speed	15	22	30	15	25	25	30	9		35	30	22	35 30 25	30	25
Stopping Distance	80	155	200	110						10) 150 200	200	250	200	150
K 2															
Crest	က	3 12	56							30	20	10	45	30	20
Sag	10	19	37							30	20	10	45	30	20
Stop										4	6	2	50	14	თ
Centerline Radius	45	45 165	260	90	150	150	200	200		30	150	6	310	230	120

TOWN OF CARRBORO



PLANNING BOARD

301 West Main Street, Carrboro, North Carolina 27510

* D R A F T * R E C O M M E N D A T I O N

NOVEMBER 1, 2007

Land use ordinance text amendment to modify sight distance requirements

David Clinton moved that in light of the safety concerns this brings to the Planning Board, the Planning Board recommends that the Board of Aldermen not adopt this measure unless more persuasive evidence is heard. The motion was seconded by Rich Bell and unanimously approved.

VOTE: AYES: (7) Barton, Bell, Carnahan, Clinton, Cook, Fritz and Poulton; NOES: (0); ABSENT/EXCUSED: (2) Chadbourne and Lavelle; ABSTENTIONS: (0).

	November 21, 2007
James Carnahan, Chair	(date)