ENROLLED ORDINANCE 180-13

MODIFY SPEED ZOÑE ON CTH O FROM THE CENTERLINE OF CTH L TO 3520 FEET NORTH OF THE CENTERLINE OF CTH HH

WHEREAS, Wisconsin Statutes §349.11 permits local authorities to modify speed restrictions within statutory guidelines; and

WHEREAS, in response to public inquiries, the Waukesha County Department of Public Works finds it appropriate, pursuant to Wisconsin Statutes §346.57(4)(h) and §349.11(1)(a) and (3)(c), to modify the speed limit to 45 mph in both directions of County Trunk Highway O from 900 feet north of the centerline of CTH L north to 3520 feet north of the centerline of CTH HH.

WHEREAS, in response to public inquiries, the Waukesha County Department of Public Works finds it appropriate, pursuant to Wisconsin Statutes §346.57(4)(h) and §349.11(1)(a) and (3)(c), to modify the speed limit to 35 mph in both directions of County Trunk Highway O from the centerline of CTH L to 900 Feet north of the centerline of CTH L.

THE COUNTY BOARD OF SUPERVISORS OF THE COUNTY OF WAUKESHA ORDAINS that the speed zone along both directions of County Trunk Highway O in the City of New Berlin and City of Muskego is modified to forty-five (45) miles per hour from 900 feet north of the centerline of CTH L north to 3520 feet north of the centerline of CTH HH and modified to be thirty-five (35) miles per hour from the centerline of CTH L to 900 Feet north of the centerline of CTH L.

BE IT FURTHER ORDAINED that this ordinance rescinds all previous speed restrictions for the above-described portion of the County trunk Highway System.

File Number: 180-O-013

MODIFY SPEED ZONE ON CTH O FROM THE CENTERLINE OF CTH L TO 3520 FEET NORTH OF THE CENTERLINE OF CTH HH

Presented by: Public Works Committee
Keith Hammitt, Chair
James Batzko
Lobert L. Roll
Robert L. Kolb
Chris Mommaerts Chris Mommaerts
hma Schellinger
Thomas J. Schellinger
Steve Styza
Terry Thieme
The foregoing legislation adopted by the County Board of Supervisors of Waukesha County, Wisconsin, was presented to the County Executive on:
Date: 06-27-2025 Jessifer a. Mosel, Deputy
The foregoing legislation adopted by the County Board of Supervisors of Waukesha County, Wisconsin, is hereby: Approved:X
Vetoed:
Date: 4/30/25 , Fail Flan
Paul Farrow, County Executive

Waukesha County DPW

Memorandum

To: Waukesha County Board From: Waukesha County DPW

MODIFY SPEED ZONE ON CTH O FROM THE CENTERLINE OF CTH L TO 3520 FEET NORTH OF THE CENTERLINE OF CTH HH

The evaluation of the CTH O speed zone was initiated following safety concerns raised by the Muskego Police Department regarding the intersection of CTH O and CTH L. An engineering study determined the need for modifications to the speed zone on CTH O, extending from the centerline of CTH L to 3,520 feet north of the centerline of CTH HH. Two speed zone adjustments are proposed: a 35 MPH limit from the centerline of CTH L to 900 feet north, and a 45 MPH limit from 900 feet north of the centerline of CTH L to 3,520 feet north of the centerline of CTH HH. Since no prior ordinance existed for this location, the limits established in this document will serve as the official reference moving forward.

CTH O (Moorland Rd) falls in an outlying district per statute §346.57(1)(ar). Statute §346.57(4)(f) states fixed limits of 35 MPH for outlying district roads. Statute §349.11(1)(a) states local government has the authority to raise speed limits to 55 MPH or less or lower speed limits by 10 MPH or less.

The current speed limit on this roadway segment is 50 MPH. It is classified as a UA3 facility with a design Average Daily Traffic (ADT) volume ranging from 17,000 to 39,000 vehicles. The existing cross section includes 12-foot travel lanes and a 2-foot curb offset. Driving at this proximity to a vertical curb is dangerous at the 50 MPH posted speed, as it significantly reduces the lateral recovery space available to drivers. Providing additional offset serves as a preventative safety measure to reduce the risk of sideswipe collisions or curb impacts resulting from minor steering corrections or evasive maneuvers.

According to FDM Chapter 11-20, Attachment 1.5, the minimum required curb offset for a roadway of this classification is 4 feet. However, for roadways with a posted speed limit of 45 MPH, the minimum curb offset requirement is reduced to 1 foot. Therefore, the current 2-foot curb offset does not meet the minimum requirement for a 50 MPH speed limit, it would comply with design standards if the posted speed were reduced to 45 MPH.

515 W MOORLAND BLVD WAUKESHA, WI 53188

Referred on: 06/02/25 File Number: 180-O-013 Referred to: PW 2

In a 2025 speed study of the proposed 45 MPH zone (900 feet north of centerline of CTH L to 3,520 feet north of the centerline of CTH HH), three locations were evaluated. The average motorist speed was recorded at 44.5 MPH, with an 85th percentile speed of 50.4 MPH. This places the posted speed within 5 MPH of the proposed 45 MPH limit, aligning with the Traffic Engineering Operations and Safety Manual (TEOpS) Chapter 13-5-7, which recommends speed limits be within 5 MPH of the free-flow speed.

Waukesha County DPW is planning a road expansion on CTH O from CTH HH to Grange Avenue with anticipated construction in 2029. This project will have a similar cross section and hence will lower the posted speed of the roadway to 45 MPH posted speed for the reasons stated above. Lowering the speed limit to 45 MPH will help eliminate the need for acquiring additional right-of-way for a wider offset and will result in cost savings. This change will also provide a smoother and more consistent speed transition after project completion.

The proposed 35 MPH speed zone on CTH O extends from the centerline of CTH L to 900 feet north. Currently, this segment is posted at 50 MPH leading into the CTH O and CTH L intersection, before dropping to 35 MPH on the south leg, which is a local road. A five-year crash analysis revealed 47 crashes at this intersection resulting in a high crash rate of 1.3 crashes per million vehicles entering the intersection, warranting the need for improvements or countermeasures. Introducing a transitional 35 MPH speed zone approaching the intersection is a suitable countermeasure that may help reduce both the frequency and severity of crashes.

A 2024 speed study of the proposed 35 MPH zone recorded an average speed of 40.7 MPH and an 85th percentile speed of 45.8 MPH. Under normal circumstances, the 35 MPH speed limit would not be recommended according to TEOpS Chapter 13-5-7 because it is not withing 5 MPH of the 85th percentile speed. However, as mentioned above, due to the high crash rate at the intersection, a proper countermeasure is needed, such as introducing a 35 MPH transitional speed zone ahead of the intersection. Since the 85th percentile speed exceeds the proposed limit, additional enforcement will be required. Implementing a 40 MPH zone is not feasible, as it does not meet the minimum speed zone length requirement specified in TEOpS Chapter 13-5-8.

In summary, a speed limit reduction is recommended for CTH O based on engineering analysis, roadway design standards, and safety considerations. From the centerline of CTH L to 900 feet north, the speed limit should be reduced from 50 MPH to 35 MPH due to a high crash rate near the intersection of CTH O and CTH L. From 900 feet north of the centerline of CTH L to 3,520 feet north of the centerline of CTH HH, the speed limit should be reduced from 50 MPH to 45 MPH. This change is necessary to meet the minimum curb offset requirements set by the FDM and to align with TEOpS standards for posted speed limits. Reducing the posted speed to 45 MPH on this segment will also provide a safer transition into the proposed 35 MPH speed zone.

Referred on: 06/02/25 File Number: 180-O-013 Referred to: PW 3

CTH O Existing Speed Zones

CTH O Proposed Speed Zones

File Number: 180-0-013

e Based	50.55	mph	Use rural	See FDM 11-15	Attachment 1.9.											adways
Recommended Clear Zone or Lateral Clearance Based on Posted Speed Limit	opment)	Developed	Provide lateral clearance per clearance per clearance per 1											Lateral Clearance is important to provide on all roadways		
d Clear Zone or Lateral Cl on Posted Speed Limit	45 mph (By Level of Development)	Developing	=	eut	occurs. See	FDM 11-15	1.9 & FDM	Coordinate	sidewalk and terrace widths with local unit	of government	authority.					nce is important t
Recommende	45 mph (B	Undeveloped	Provide Rural Clear Zone. See FDM 11-15 Attachment Att.1.9 Consult with Local Unit of Government Or Maintaining Authority as to need for future sidewalk and terraces.										Lateral Clearand			
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dth Based on P	opment)	Developed ⁵		2 (1)	4-6 (1-1.8)	4-6 (1-1.8)	4-6 (1-1.8)	4-8 (1-1.8)	1.8-6L 4-10R		4-6 (1-1.8)	4-10 (1-1.8)	1.8-6L (1L) 4-10R (1-1.8R)		1.8-10L 4-10R (1-1.8R)	
Shoulder (Curb Offset) Width Based on Posted Speed ⁴	45 mph (By Level of Development)	Developing ⁵		2 (1.8)	6 (1.8)	6 (1.8)	6 (1.8)	8 (1.8)	6L (1.8L) 10R (1.8L)		6 (1.8)	10 (1.8)	6L (1.8L) 10R (1.8R)		10L and 10R (1.8L & 1.8R)	r urban roadways
Shoulder (C	45 mph (B			2 (1.8)	6 (5)	9	9	∞	6L (4L) 10R	Arterials	9	10 (8)	6L (4L) 10R		10L and 10R	See FDM 11-35-1.2.3 for bridge width criteria for urban roadways.
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Lane Widths By Posted Speed ²	55 mph			11-12 (10)	11-12	12	12	12	12		12	5	12		12	M 11-35-1
Lane V By Pe Spe	45.50	mph		11-12 (10)	11-12	11-12	12	12	12		12	12	12		12	See FD
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	Coison	ADT		0-400	400-1500	1500-2000	2000-3500	3500-20,000	20,000- 42,000		Under 3500	3500- 17,000 ^A 3500- 19,000 ^B	17,000- 39,000 ^A	19,000- 42,000 ^B		
	Doeign	Class ¹		UCL1	UCL2	UCL3	UCL4	UCL5			UA1	UA2	UA3			

Upper values are shown in **bold** and Lower values are shown in parentheses. See page 2 of this attachment for superscript notes.

VOTE RESULTS

Consent Agenda

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D3 - Vacant	ABSENT	D12 - Wolff	AYE	D21 - Gaughan	BERNONNE	AYE
D4 - Batzko	AYE	D13 - Leisemann	ABSENT	D22 - Szpara	Egracian and	AYE
D5 - Dondlinger	AYE	D14 - Mommaerts	AYE	D23 - Hammitt	3	AYE
D6 - Walz	AYE	D15 - Kolb	AYE	D24 - Schroeder	NO.	AYE
D7 - LaFontain	AYE	D16 - Crowley	AYE	D25 - Johnson	S	AYE
D8 - Koremenos	ABSENT	D17 - Meier	AYE			
D9 - Heinrich	AYE	D18 - Nelson	AYE			

June 24, 2025 3rd Meeting, 180th Year of the County Board of Supervisors - June 24 2025 07:09:28 PM



1	MODIFY SPEED ZONE ON CTH O FROM THE CENTERLINE OF CTH L TO 3520 FEET
2	NORTH OF THE CENTERLINE OF CTH HH
3	
4	WHEREAS, Wisconsin Statutes §349.11 permits local authorities to modify speed restrictions
5	within statutory guidelines; and
6	
7	WHEREAS, in response to public inquiries, the Waukesha County Department of Public Works
8	finds it appropriate, pursuant to Wisconsin Statutes §346.57(4)(h) and §349.11(1)(a) and (3)(c),
9	to modify the speed limit to 45 mph in both directions of County Trunk Highway O from 900
10	feet north of the centerline of CTH L north to 3520 feet north of the centerline of CTH HH.
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12	WHEREAS, in response to public inquiries, the Waukesha County Department of Public Works
13	finds it appropriate, pursuant to Wisconsin Statutes §346.57(4)(h) and §349.11(1)(a) and (3)(c),
14	to modify the speed limit to 35 mph in both directions of County Trunk Highway O from the
15	centerline of CTH L to 900 Feet north of the centerline of CTH L.
16	
17	THE COUNTY BOARD OF SUPERVISORS OF THE COUNTY OF WAUKESHA ORDAINS
18	that the speed zone along both directions of County Trunk Highway O in the City of New Berlin
19	and City of Muskego is modified to forty-five (45) miles per hour from 900 feet north of the
20	centerline of CTH L north to 3520 feet north of the centerline of CTH HH and modified to be
21	thirty-five (35) miles per hour from the centerline of CTH L to 900 Feet north of the centerline of
22	CTH L.
23	
24	BE IT FURTHER ORDAINED that this ordinance rescinds all previous speed restrictions for the
25	above-described portion of the County trunk Highway System.

Referred on: 06/02/25 File Number: 180-O-013 Referred to: PW