



# CITY OF EAST GRAND RAPIDS

750 LAKESIDE DRIVE SE-EAST GRAND RAPIDS, MICHIGAN 49506

## Traffic Control Order #75

**Locations:** Uncontrolled school crosswalks at: Lake Drive/Ogden Avenue, Lake Drive/Maxwell Avenue, and Lake Drive/Lakeside Drive.

**Order:** Install R1-5 Signs and Modify S1-1 and W16 9P as noted in Attachment B.

**Background:** See Attachment A, Traffic Engineering Memo.

Submitted by: Doug La Fave, Department of Public Works

Administrative Approval-Traffic Engineering Judgement-MMUTCD: Approved January 2, 2024.

Installation Completed: Installed/modified by the Department of Public Works on 1/4/2024.

Distribution: City Clerk  
Public Works  
Public Safety

## MEMO

**To:** Doug La Fave – City of East Grand Rapids

**From:** Chris Zull PE – Progressive AE, Inc.

**Date:** November 2, 2023

**Re:** Pedestrian Crosswalk Signage/Treatment Review – Use of R1-5 Series

**INTRODUCTION**

Please refer to our memorandum, dated May 24, 2023, Pedestrian Crosswalk Signage/Treatment Review, as a reference to this Memo. Upon reviewing different approaches to improve pedestrian signage and crosswalk treatment at unsignalized intersections, two recommendations were provided to the City of East Grand Rapids (City). The recommended options were: 1) Construction of Pedestrian Gateway Treatment (R1-6) at the Lakeside Drive and Lake Drive and Maxwell Avenue and Lake Drive Intersections and 2) do nothing for which the City could opt to do nothing, if desired, because the crash data analysis has proven that the intersections are not statistically unsafe for pedestrians (see the referenced Memo for more details).

Upon review of the recommendations and practical implications, the City was concerned about the gateway option's practicality due to the possible challenges the option might bring regarding placement during different times of the year and the signs being hit after hours. To address the need for pedestrian signage at the crosswalks in question, the City specifically requested professional advice from Progressive AE on the use and applicability of the sign R1-5 (see Figure 1).



Figure 1: R1-5 Sign Series

Progressive AE, Inc.

Corporate Office: | 1811 4 Mile Road NE | Grand Rapids, MI 49525 | 616.361.2664 | [progressiveae.com](http://progressiveae.com)  
 Regional Office: | 330 South Tryon Street, Suite 500 | Charlotte, NC 28202 | 704.731.8080 | [progressiveae.com](http://progressiveae.com)

In addition, different locations were suggested to mount the proposed signages. Below is the list of the proposed locations:

Intersection	Proposed Mounting Location
<p>Lake Drive / Maxwell Avenue (Westbound Lake Drive)</p>	
<p>Lake Drive / Maxwell Avenue (Eastbound Lake Drive)</p>	
<p>Lake Drive / Lakeside Avenue (Eastbound Lake Drive)</p>	

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## STANDARD PRACTICE FOR THE USE OF R1-5 SERIES

A review of the practical standards, guidelines, and options for the use of R1-5 series signs (see Figure 1) was conducted and summarized below:

- The Yield Here To (Stop Here For) Pedestrians signs shall be used if yield (stop) lines are used in advance of a marked crosswalk that crosses an uncontrolled multilane approach. The Yield Here To (Stop Here For) Pedestrians signs shall only be used where the law (local regulation or ordinance) specifically requires that a driver yield or stop. The legend LOCAL LAW may be displayed at the top of the signs, if applicable.

### Guidance:

- If the yield (stop) line and Yield Here To (Stop Here For) Pedestrians signs are used in advance of a crosswalk that crosses an uncontrolled multilane approach, they should be placed 20-feet to 50-feet in advance of the nearest crosswalk line and parking should be prohibited in the area between the yield (stop) line and the crosswalk.
- Yield (stop) lines and Yield Here To (Stop Here For) Pedestrians signs should not be used in advance of crosswalks that cross an approach to or departure from a roundabout.

### Option:

- Yield Here To (Stop Here For) Pedestrians signs may be used in advance of a crosswalk that crosses an uncontrolled multilane approach to indicate to road users where to yield (stop) even if yield (stop) lines are not used.

A Pedestrian Crossing (W11-2) warning sign may be placed overhead or may be post-mounted with a diagonal downward pointing arrow (W16-7P) plaque at the crosswalk location where Yield Here To (Stop Here For) Pedestrians signs have been installed in advance of the crosswalk.

- If a W11-2 sign has been post-mounted at the crosswalk location where a Yield Here To (Stop Here For) Pedestrians sign is used on the approach, the Yield Here To (Stop Here For) Pedestrians sign shall not be placed on the same post as or block the road user's view of the W11-2 sign.
- An advance Pedestrian Crossing (W11-2) warning sign with an AHEAD or a distance supplemental plaque may be used in conjunction with a Yield Here To (Stop Here For) Pedestrians sign on the approach to the same crosswalk.
- In-Street Pedestrian Crossing signs and Yield Here To (Stop Here For) Pedestrians signs may be used together at the same crosswalk.

## CONCLUSION AND RECOMMENDATIONS

Yield Here To (Stop Here For) Pedestrians signs are known to be effective and even more so with some additional infrastructure/planning. Based on the MMUTCD Standards and Professional Guidance, below are the recommendations:

- The Yield Here To (Stop Here For) Pedestrians signs can be installed at the nearest crosswalk on each approach.
- Since parking in this area is often in high demand, yield (stop) lines are not mandated and could be implemented later if the R1-5 series signs are less effective.
- Monitor the installation of the signs without the yield (stop) lines to ensure they provide the desired impact. With the yield (stop) lines, parking restrictions should be expected between the yield (stop) lines and the crosswalk.

SML/CEZ/ecy

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Installation Locations of R1-5 Signs

Lake/Ogden



## Lake/Maxwell



# Lake/Lakeside



**Completed TCO R1-5 Signs-Lake Drive between Ogden and Lakeside**

**Lake/Ogden-West-Below**



**Lake/Ogden-East-Below**



**Lake/Maxwell-West-Below**



**Lake/Maxwell-East-Below**



**Lake/Lakeside-West-Below**



**Lake/Lakeside-East-Below**

