## SCHOOL CROSSING ANALYSIS <br> City of Madison <br> Department of Transportation <br> Traffic Engineering Division



## Interpretation of Hazard Rating

Using the hazard rating as a guide, the following measures are appropriate:

1. Mark as a school crossing when the hazard rating is greater than 20 points at a crossing used by at least 25 elementary school students during the peak crossing hour. The Traffic Engineer is authorized to mark such a crossing with appropriate warning signs and special crosswalk markings.
2. Install flashing beacons if any one of the following conditions is met:
a. The 85 th percentile speed is in excess of 40 mph measured at existing school crossing signs which have been in place at least 30 days.
b. The street crossed is a U.S. or State Trunk Highway on which a significant percentage of "foreign " drivers can be expected.
c. The ratio of sight distance to safe stopping distance is less than 1.5.
d. The hazard rating is greater than 30 at an unguarded location where at least 25 elementary students cross and the available safe crossing gaps are less than 50 percent.
3. Recommend the assignment of an adult school crossing guard when the hazard rating is greater than 40 points at a crossing used by at least 25 elementary school students during the peak crossing hour.

If the school has only grades K through 2, recommend the assignment of an adult school crossing guard in the hazard rating is greater than 30 points at a crossing used by at least 15 elementary school students during the peak crossing hour.
4. Recommend the discontinuance of adult school crossing guard protection at a crossing where the hazard rating falls below 30 points or if the number of elementary school students crossing during the peak hour in less than 15 .

At the intersection of two arterial streets where the total weekday entering traffic volume exceed 25,000 vehicles, the total number of students crossing at the intersection will be used to compare to the minimum of 15 students required to retain an adult school crossing guard.

## Remarks/Recommendations

- Non-signalized intersection.
- Crossing has continental crosswalk markings.

Recommend discontinuance of Adult School Crossing Guard since this location does not meet the criteria for minimum number of elementary students and overall hazard rating.
by Gretchen M. Avilés Piñeiro Date July 23, 2021

## SCHOOL CROSSING ANALYSIS <br> City of Madison <br> Department of Transportation <br> Traffic Engineering Division



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d. The hazard rating is greater than 30 at an unguarded location where at least 25 elementary students cross and the available safe crossing gaps are less than 50 percent.
3. Recommend the assignment of an adult school crossing guard when the hazard rating is greater than 40 points at a crossing used by at least 25 elementary school students during the peak crossing hour.

If the school has only grades K through 2, recommend the assignment of an adult school crossing guard in the hazard rating is greater than 30 points at a crossing used by at least 15 elementary school students during the peak crossing hour.
4. Recommend the discontinuance of adult school crossing guard protection at a crossing where the hazard rating falls below 30 points or if the number of elementary school students crossing during the peak hour in less than 15 .

At the intersection of two arterial streets where the total weekday entering traffic volume exceed 25,000 vehicles, the total number of students crossing at the intersection will be used to compare to the minimum of 15 students required to retain an adult school crossing guard.

## Remarks/Recommendations

- Non-signalized intersection.
- Safe gaps calculated north of the island during AM \& south of the island during PM.
- Crossing has a Rectangular Rapid Flashing Beacon.

Recommend discontinuance of Adult School Crossing Guard since this location does not meet the criteria for minimum number of elementary students and overall hazard rating.
by Gretchen M. Avilés Piñeiro Date July 23, 2021

# SCHOOL CROSSING ANALYSIS <br> City of Madison <br> Department of Transportation <br> Traffic Engineering Division 



## Interpretation of Hazard Rating

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b. The street crossed is a U.S. or State Trunk Highway on which a significant percentage of "foreign " drivers can be expected.
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d. The hazard rating is greater than 30 at an unguarded location where at least 25 elementary students cross and the available safe crossing gaps are less than 50 percent.
3. Recommend the assignment of an adult school crossing guard when the hazard rating is greater than 40 points at a crossing used by at least 25 elementary school students during the peak crossing hour.

If the school has only grades K through 2, recommend the assignment of an adult school crossing guard in the hazard rating is greater than 30 points at a crossing used by at least 15 elementary school students during the peak crossing hour.
4. Recommend the discontinuance of adult school crossing guard protection at a crossing where the hazard rating falls below 30 points or if the number of elementary school students crossing during the peak hour in less than 15 .

At the intersection of two arterial streets where the total weekday entering traffic volume exceed 25,000 vehicles, the total number of students crossing at the intersection will be used to compare to the minimum of 15 students required to retain an adult school crossing guard.

## Remarks/Recommendations

- Signalized intersection.
- Safe gaps calculated during Monroe St Green Time/Glenway St Walk phase.

Recommend discontinuance of Adult School Crossing Guard since this location does not meet the criteria for minimum number of elementary students.
by Gretchen M. Avilés Piñeiro
Date July 23, 2021

## SCHOOL CROSSING ANALYSIS <br> City of Madison <br> Department of Transportation <br> Traffic Engineering Division



## Interpretation of Hazard Rating

Using the hazard rating as a guide, the following measures are appropriate:

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a. The 85 th percentile speed is in excess of 40 mph measured at existing school crossing signs which have been in place at least 30 days.
b. The street crossed is a U.S. or State Trunk Highway on which a significant percentage of "foreign " drivers can be expected.
c. The ratio of sight distance to safe stopping distance is less than 1.5
d. The hazard rating is greater than 30 at an unguarded location where at least 25 elementary students cross and the available safe crossing gaps are less than 50 percent.
3. Recommend the assignment of an adult school crossing guard when the hazard rating is greater than 40 points at a crossing used by at least 25 elementary school students during the peak crossing hour.

If the school has only grades K through 2, recommend the assignment of an adult school crossing guard in the hazard rating is greater than 30 points at a crossing used by at least 15 elementary school students during the peak crossing hour.
4. Recommend the discontinuance of adult school crossing guard protection at a crossing where the hazard rating falls below 30 points or if the number of elementary school students crossing during the peak hour in less than 15 .

At the intersection of two arterial streets where the total weekday entering traffic volume exceed 25,000 vehicles, the total number of students crossing at the intersection will be used to compare to the minimum of 15 students required to retain an adult school crossing guard.

## Remarks/Recommendations

- Signalized intersection.
- Safe gaps calculated during Mineral Point Rd Green Time/Midvale Blvd Walk phase.
- Child crossed with adult; 1 middle school student crossed in afternoon

Recommend discontinuance of Adult School Crossing Guard since this location does not meet the criteria for minimum number of elementary students and has not for several years.
by Renee Callaway
Date July 23, 2021

## SCHOOL CROSSING ANALYSIS <br> City of Madison <br> Department of Transportation <br> Traffic Engineering Division



## Interpretation of Hazard Rating

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If the school has only grades K through 2 , recommend the assignment of an adult school crossing guard in the hazard rating is greater than 30 points at a crossing used by at least 15 elementary school students during the peak crossing hour.
4. Recommend the discontinuance of adult school crossing guard protection at a crossing where the hazard rating falls below 30 points or if the number of elementary school students crossing during the peak hour in less than 15.

At the intersection of two arterial streets where the total weekday entering traffic volume exceed 25,000 vehicles, the total number of students crossing at the intersection will be used to compare to the minimum of 15 students required to retain an adult school crossing guard.

## Remarks/Recommendations

- Non-signalized intersection.
- Crossing has continental crosswalk markings.
- All students crossed with an adult.
- South leg was also used by all students+adults.

Adult School Crossing Guard is not recommended since this location does not meet the criteria for minimum number of elementary students and overall hazard rating.
by Gretchen M. Avilés Piñeiro
Date July 23, 2021

## SCHOOL CROSSING ANALYSIS <br> City of Madison <br> Department of Transportation <br> Traffic Engineering Division



## Interpretation of Hazard Rating

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At the intersection of two arterial streets where the total weekday entering traffic volume exceed 25,000 vehicles, the total number of students crossing at the intersection will be used to compare to the minimum of 15 students required to retain an adult school crossing guard.

## Remarks/Recommendations

- Non-signalized intersection.
- Crossing has a Rectangular Rapid Flashing Beacon and continental crosswalk markings.

Adult School Crossing Guard not recommended since this location does not meet the criteria for minimum number of elementary students and overall hazard rating.
by Gretchen M. Avilés Piñeiro Date July 23, 2021

# SCHOOL CROSSING ANALYSIS <br> City of Madison <br> Department of Transportation <br> Traffic Engineering Division 



## Interpretation of Hazard Rating

Using the hazard rating as a guide, the following measures are appropriate:

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At the intersection of two arterial streets where the total weekday entering traffic volume exceed 25,000 vehicles, the total number of students crossing at the intersection will be used to compare to the minimum of 15 students required to retain an adult school crossing guard.

## Remarks/Recommendations

Recommend discontinuance of Adult School Crossing Guard since this location does not meet the criteria for minimum number of elementary students and overall hazard rating.
by Renee Callaway Date July 23, 2021

# SCHOOL CROSSING ANALYSIS <br> City of Madison <br> Department of Transportation <br> Traffic Engineering Division 



## Interpretation of Hazard Rating

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At the intersection of two arterial streets where the total weekday entering traffic volume exceed 25,000 vehicles, the total number of students crossing at the intersection will be used to compare to the minimum of 15 students required to retain an adult school crossing guard.

## Remarks/Recommendations

Recommend placement of crossing guard as gaps would have been less frequent without presence of temporary crossing guard and does not meet the criteria for discontinuing crossing guard.
by Renee Callaway Date July 23, 2021

# SCHOOL CROSSING ANALYSIS <br> City of Madison <br> Department of Transportation <br> Traffic Engineering Division 



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## Remarks/Recommendations

- RRFB added in Summer 2020
- Spring 2019 U-turns at Segoe/Richland were prohibited after Crossing Guard study
- U-turns decreased from 40 cars in Dec 2019 to 3 cars in June 2021 during Crossing Guard study
- Usage does not meet minimum of 25 students - do not recommend to add crossing guard
by Renee Callaway Date July 23, 2021

