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

School $\qquad$ Randall \& Franklin Elementary Schools


## 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 85th 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

## Comments

- The intersection of Randall and Drake is all-way stop controlled.
- Crossing is used by Randall Elementary School students (grades $3-5$ ) walking to school, and by
- Franklin Elementary School students (grades $\mathrm{K}-2$ ) going to/from yellow school bus stop.
- Franklin school bus stops in the morning on south side of Drake Street facing eastbound (across the street from Café ZuZu ). In the afternoon it stops on Randall facing northbound, next to Café ZuZu .
- All of the Franklin K-2 students were accompanied by an adult.
- In the morning, 28 students were observed crossing.
- 23 were $3^{\text {rd }}-5^{\text {th }}$ grade walking to Randall.
- 17 of the Randall students crossed two legs of the intersection in the morning.
- 5 were $\mathrm{K}-2^{\text {nd }}$ grade Franklin students going to the yellow school bus stop. All of these were accompanied by adults.
- 1 of the Franklin students, with an adult, crossed two legs of the intersection in the morning


## Recommendation

Sign as a school crossing, all four approaches

by Arthur Ross, Pedestrian-Bicycle Coordinator

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