980769

To: Stan Rickard, Public Works Director

From: John Johnson, Technical Services Supervisor

Date: December 22, 1998

Subject: Edson and Willow Stop Sign

Edson Ave. and Willow St. were part of the SA-209 street reconstruction program. Both streets were unimproved streets in poor condition. Due to the poor condition of the roadway, vehicles naturally traveled slowly through the intersection. Now that the street has been improved and widened, vehicles are traveling faster. The problem is that Willow St. runs along the Illinois Prairie Path, which is about 20 feet away. The Illinois Prairie Path has dense foliage and greatly reduces visibility approaching the intersection. During the month of December two vehicles were involved in a right angle accident; in which the force of the accident sent both vehicles into the trees along the Illinois Prairie Path.

On the basis of the above information, I would recommend a stop sign on Willow St. at Edson Ave.

JJ

cc: John Jaugilas, Trustee - District 4
Paul Kufrin, Trustee - District 6
Transportation and Safety Committee

NU-METRICS Traffic Analyzer Study
Computer Generated Summary Report
Route: E.B.WILLOW AT EDSON
Location: E.B.WILLOW AT EDSON

A study of vehicle traffic was conducted with HI-STAR unit number 2262. The study was done in the lane on E.B.WILLOW AT EDSON in Lombard, IL in DuPage county. The study began on 12/01/1998 at 10:00 AM and concluded on 12/03/1998 at 10:00 AM, lasting a total of 48 hours. Data was recorded in 60 minute time periods. The total recorded volume of traffic showed 183 vehicles passed through the location with a peak volume of 11 on 12/02/1998 at 07:00 AM and a minimum volume of 0 on 12/01/1998 at 11:00 PM.

SPEED
Chart 1 lists the values of the speed bins and the total traffic volume for each bin.

Chart 1

< 23	23	25	28	30	33	35	38	40	43	45	48	50	53	> 53
124	8	20	5	4	1	4	1	0	1	0	0	0	0	0

Half of the vehicles were traveling at 22 Mph or a lower speed. The average speed for all classified vehicles was 23 Mph with 4.17 percent exceeding the posted speed of 30 Mph. The HI-STAR found 0.0 percent of the total vehicles were traveling in excess of 55 Mph. The mode speed for this traffic study was 22 Mph and the 85th percentile was 25.

CLASSIFICATION
Chart 2 lists the values of the eight Classification bins and the total traffic volume accumulated for each bin.

Chart 2

< 20	20	30	40	50	60	70	> 70
127	27	11	3	0	0	0	0

Most of the vehicles were Passenger Cars with a total count of 154. This represents 91.7 percent of the classified vehicles. The number of trucks in the study was 0 which represents 0.0 percent of the total classifed vehicles.

HEADWAY
During the peak time period, on 12/02/1998 at 07:00 AM the average headway between the vehicles was 300.0 seconds. The slowest traffic period was on 12/01/1998 at 11:00 PM. During this slowest period, the average headway was 3600.0 seconds.

WEATHER
The roadway surface temperature over the period of the study varied between 44 and 68 degrees Fahrenheit. The HI-STAR determined that the roadway surface was Dry 100.0 percent of the time.

NU-METRICS Traffic Analyzer Study
Computer Generated Summary Report
Route: W.B.WILLOW AT EDSON
Location: W.B.WILLOW AT EDSON

A study of vehicle traffic was conducted with HI-STAR unit number 144. The study was done in the lane on W.B.WILLOW AT EDSON in Lombard, IL in DuPage county. The study began on 12/01/1998 at 10:00 AM and concluded on 12/03/1998 at 10:00 AM, lasting a total of 48 hours. Data was recorded in 60 minute time periods. The total recorded volume of traffic showed 173 vehicles passed through the location with a peak volume of 12 on 12/01/1998 at 05:00 PM and a minimum volume of 0 on 12/01/1998 at 11:00 PM.

SPEED
Chart 1 lists the values of the speed bins and the total traffic volume for each bin.

Chart 1

< 23	23	25	28	30	33	35	38	40	43	45	48	50	53	> 53
110	1	9	2	0	6	1	0	0	1	6	2	0	1	1

Half of the vehicles were traveling at 22 Mph or a lower speed. The average speed for all classified vehicles was 25 Mph with 12.8 percent exceeding the posted speed of 30 Mph. The HI-STAR found 0.0 percent of the total vehicles were traveling in excess of 55 Mph. The mode speed for this traffic study was 22 Mph and the 85th percentile was 25.

CLASSIFICATION
Chart 2 lists the values of the eight Classification bins and the total traffic volume accumulated for each bin.

Chart 2

< 20	20	30	40	50	60	70	> 70
127	1	5	6	0	0	1	0

Most of the vehicles were Passenger Cars with a total count of 128. This represents 91.4 percent of the classified vehicles. The number of trucks in the study was 0 which represents 0.0 percent of the total classifed vehicles.

HEADWAY
During the peak time period, on 12/01/1998 at 05:00 PM the average headway between the vehicles was 276.92 seconds. The slowest traffic period was on 12/01/1998 at 11:00 PM. During this slowest period, the average headway was 3600.0 seconds.

WEATHER
The roadway surface temperature over the period of the study varied between 42 and 62 degrees Fahrenheit. The HI-STAR determined that the roadway surface was Dry 100.0 percent of the time.

NU-METRICS Traffic Analyzer Study
Computer Generated Summary Report
Route: N.B.EDSON AT WILLOW
Location: N.B.EDSON AT WILLOW

A study of vehicle traffic was conducted with HI-STAR unit number 9248. The study was done in the lane on N.B.EDSON AT WILLOW in Lombard, IL in DuPage county. The study began on 12/01/1998 at 10:00 AM and concluded on 12/03/1998 at 10:00 AM, lasting a total of 48 hours. Data was recorded in 60 minute time periods. The total recorded volume of traffic showed 460 vehicles passed through the location with a peak volume of 27 on 12/02/1998 at 06:00 PM and a minimum volume of 0 on 12/01/1998 at 11:00 PM.

SPEED
Chart 1 lists the values of the speed bins and the total traffic volume for each bin.

Chart 1

< 23	23	25	28	30	33	35	38	40	43	45	48	50	53	> 53
168	38	55	96	36	30	13	8	0	2	1	1	0	0	1

Half of the vehicles were traveling at 25 Mph or a lower speed. The average speed for all classified vehicles was 26 Mph with 12.4 percent exceeding the posted speed of 30 Mph. The HI-STAR found 0.0 percent of the total vehicles were traveling in excess of 55 Mph. The mode speed for this traffic study was 22 Mph and the 85th percentile was 30.

CLASSIFICATION
Chart 2 lists the values of the eight Classification bins and the total traffic volume accumulated for each bin.

Chart 2

< 20	20	30	40	50	60	70	> 70
381	9	42	13	2	2	0	0

Most of the vehicles were Passenger Cars with a total count of 390. This represents 86.9 percent of the classified vehicles. The number of trucks in the study was 0 which represents 0.0 percent of the total classifed vehicles.

HEADWAY
During the peak time period, on 12/02/1998 at 06:00 PM the average headway between the vehicles was 128.57 seconds. The slowest traffic period was on 12/01/1998 at 11:00 PM. During this slowest period, the average headway was 3600.0 seconds.

WEATHER
The roadway surface temperature over the period of the study varied between 46 and 68 degrees Fahrenheit. The HI-STAR determined that the roadway surface was Dry 100.0 percent of the time.

NU-METRICS Traffic Analyzer Study
Computer Generated Summary Report
Route: S.B.EDSON AT WILLOW
Location: S.B.EDSON AT WILLOW

A study of vehicle traffic was conducted with HI-STAR unit number 9136. The study was done in the lane on S.B.EDSON AT WILLOW in Lombard, IL in DuPage county. The study began on 12/01/1998 at 10:00 AM and concluded on 12/03/1998 at 10:00 AM, lasting a total of 48 hours. Data was recorded in 60 minute time periods. The total recorded volume of traffic showed 361 vehicles passed through the location with a peak volume of 20 on 12/02/1998 at 05:00 PM and a minimum volume of 0 on 12/02/1998 at 12:00 AM.

SPEED
Chart 1 lists the values of the speed bins and the total traffic volume for each bin.

Chart 1

< 23	23	25	28	30	33	35	38	40	43	45	48	50	53	> 53
174	24	38	43	8	9	3	0	0	0	0	0	0	0	0

Half of the vehicles were traveling at 22 Mph or a lower speed. The average speed for all classified vehicles was 24 Mph with 4.01 percent exceeding the posted speed of 30 Mph. The HI-STAR found 0.0 percent of the total vehicles were traveling in excess of 55 Mph. The mode speed for this traffic study was 22 Mph and the 85th percentile was 28.

CLASSIFICATION
Chart 2 lists the values of the eight Classification bins and the total traffic volume accumulated for each bin.

Chart 2

< 20	20	30	40	50	60	70	> 70
284	3	12	0	0	0	0	0

Most of the vehicles were Passenger Cars with a total count of 287. This represents 96.0 percent of the classified vehicles. The number of trucks in the study was 0 which represents 0.0 percent of the total classifed vehicles.

HEADWAY
During the peak time period, on 12/02/1998 at 05:00 PM the average headway between the vehicles was 171.43 seconds. The slowest traffic period was on 12/02/1998 at 12:00 AM. During this slowest period, the average headway was 3600.0 seconds.

WEATHER
The roadway surface temperature over the period of the study varied between 44 and 64 degrees Fahrenheit. The HI-STAR determined that the roadway surface was Dry 100.0 percent of the time.