



CITY OF RAPID CITY

Engineering Services

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MEMORANDUM

TO: Public Works Committee/Common Council

FROM: John Less, P.E.
Traffic Engineer

SUBJECT: Request Authorization to Install STOP signs
Nebraska Street and Wisconsin Avenue

DATE: June 26, 2006

In accordance with section 10.12.120 of the City of Rapid City Code of Ordinances, Common Council approval is requested for the installation of STOP signs on Wisconsin Avenue at its intersection with Nebraska Street. A copy of the Intersection Traffic Control Evaluation is attached for your reference.

REQUESTED ACTION:

Staff requests that the Common Council authorize the installation of STOP signs on Wisconsin Avenue at its intersection with Nebraska Street.



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MEMORANDUM

TO: Dirk Jablonski, P.E.
Director, Public Works Department

FROM: John Less, P.E.
Traffic Engineer, Engineering Services

SUBJECT: Intersection Traffic Control Evaluation
Nebraska Street and Wisconsin Avenue

DATE: May 10, 2006

INTRODUCTION

This traffic control evaluation was completed in response to a request from the Police Department. The criteria used for the evaluation were the "Minimum Warrants for Installation of Intersection Traffic Controls" (as approved by the City Council).

FINDINGS

- 1) Traffic volume information was collected on May 3, 2006; count summaries are included in Appendix A. Nine hours had total entering volumes exceeding 60 vehicles. **Warrant #1 is met.**
- 2) There were no reported crashes from 2003 to 2005. **Warrant #2 is not met.**
- 3) Neither street is a collector or arterial. **Warrant #3 is not met.**
- 4) There are no special factors relating to traffic safety or operation. **Warrant #4 is not met.**
- 5) The posted speed for each approach is 25 MPH.



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6) The total minor street traffic is 33% of the total entering volume.

RECOMMENDATIONS

- City Council approval should be requested for the installation of STOP (R1-1) signs on the Wisconsin Avenue approaches to the intersection.

Please let me know if you have any questions or need further information.

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CITY OF RAPID CITY
ENGINEERING SERVICES DIVISION / PUBLIC WORKS
DEPARTMENT
ENGINEERING REPORT SUMMARY

DATE: May 5, 2006
LOCATION: Nebraska Street & Wisconsin Avenue
REASON FOR STUDY: Request from Police Department (citizen complaints)
REPORT PREPARED BY: John Less, P.E., Traffic Engineer

CONCLUSIONS:

- 1) The intersection meets the traffic volume warrant as approved by the City Council.
- 2) The traffic volume on the minor street is less than 40% of the total entering traffic at the intersection.

RECOMMENDATIONS:

- 1) STOP (R1-1) signs should be installed on the Wisconsin Avenue approaches.

PROPOSED STOP SIGN INSTALLATION NEBRASKA STREET & WISCONSIN AVENUE



PROPOSED STOP SIGNS

WISCONSIN AVE

STOP

STOP

NEBRASKA ST

GLENSHIRE CT

GLENSHIRE DR

CENTENNIAL ST

69 ST

