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CITY OF RAPID CITY

RAPID CITY, SOUTH DAKOTA 57701-2724

GROWTH MANAGEMENT DEPARTMENT

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MEMORANDUM

TO: Planning Commission

FROM: Patsy Horton, Community Planning Coordinator

DATE: July 1, 2004

RE: Jackson Boulevard Extension Study – Executive Summary and Final Report

Attached for your review and approval is a copy of the Jackson Boulevard Extension Study Executive Summary.

A public meeting was held during the development of the study and extensive public comment was received. The Executive Summary and Final Report will be submitted to the South Dakota Department of Transportation and the Federal Highway Administration.

There were no additional comments received during the review process of the Final Draft Report. Because of the cost involved with printing the final reports, we have provided you with copies of the Executive Summary only. However, if you wish to review a copy of the full report or if you have any questions, please feel contact me.

MPO Committee Recommendation: The Executive Policy Committee recommends that the Jackson Boulevard Extension Study Executive Summary and Final Report be approved.



EQUAL OPPORTUNITY EMPLOYER

JACKSON BOULEVARD EXTENSION CORRIDOR ANALYSIS REPORT



Prepared for:
Rapid City Area Metropolitan Planning Organization

FEBRUARY 2004



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EXECUTIVE SUMMARY

At the end of 2001, the City of Rapid City initiated an investigation of the feasibility and benefits associated with the extension of Jackson Boulevard from its current terminus at West Main Street to intersect with Omaha Street. Currently, vehicles traveling between Jackson Boulevard and Omaha Street along the South Dakota 44 (SD 44) route use Mountain View Road. The purpose of the extension of Jackson Boulevard to Omaha Street is principally two-fold:

- ◆ To provide relief to congestion on the Mountain View Road commercial corridor.
- ◆ To allow for improved distribution of traffic between the east-west Omaha Street and West Main Street corridors through "The Gap" connecting western Rapid City with downtown.

The Corridor Analysis Report documents the traffic forecasting procedures along with an alternatives evaluation for the Jackson Boulevard Extension as well as several other potential roadway improvement alternatives in the study area. The analysis of the improvement alternatives is based on the projected travel demand in 2025 during both the average weekend peak periods and the summer weekday peak periods.

Five alternative alignments have been evaluated for the Jackson Boulevard extension, and intersection and system-level operational analyses have been conducted. The intersection operational analysis shows that the extension would improve the operation of the Mountain View Road/Omaha Street intersection; however, the remainder of the study intersections would remain at the same level of service (or within on level of service category). The system-wide evaluation shows that the delay reductions at existing intersections would be largely balanced by delays introduced at the new Jackson Boulevard/Omaha Street intersection. Since operational benefits associated with the Jackson Boulevard Extension do not justify the costs and right-of-way impacts, it is not recommended to be pursued at this time.

A series of alternative roadway improvements within the study area were also evaluated. Several improvements have been recommended for implementation or further study and are summarized on Figure ES-1. A list of the alternatives that are recommended and those that are not recommended are provided below.

Recommended

- ◆ Northbound right turn arrow at Mountain View Road/Omaha Street
- ◆ Dual westbound left turn lanes and northbound right turn arrow at Mountain View Road/West Main Street
- ◆ Consideration of free-flow right turn lane at Jackson Boulevard/West Main Street if redevelopment occurs
- ◆ Develop detailed access control plans for West Main Street and Mountain View Road
- ◆ Dual westbound left turn lanes at Sheridan Lake Road/Jackson Boulevard
- ◆ Improved signing on Cross Street
- ◆ Further study of Sheridan Lake Road extension

JACKSON BOULEVARD EXTENSION

Not Recommend

- ◆ Jackson Boulevard Extension (preserve existing ROW for options to be considered in the long term future)
- ◆ Widening Mountain View Road to six lanes
- ◆ Reconfiguration of Jackson Boulevard/Mountain View Road intersection
- ◆ Widening Cross Street to four lanes
- ◆ Widening Jackson Boulevard to six lanes
- ◆ Signalization of Cross Street intersections
- ◆ Converting Mountain View Road and Jackson Boulevard to one-way pair

