



CITY OF RAPID CITY

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MEMORANDUM

TO: Metropolitan Planning Organization Committees

FROM: Kip Harrington, Planner III

DATE: February 5, 2018

RE: **18TP006 – I-90 Exit 61 to Exit 67 Corridor Study – Final Report**

Attached for your review and acknowledgement is the I-90 Exit 61 to Exit 67 Corridor Study Final Report. The study, initiated by SDDOT in conjunction with the MPO, identifies recommendations to address the following two issues:

1. **I-90 Corridor Capacity:** Traffic analyses were conducted to assess the need for additional travel lane capacity along I-90, regional roadway network improvements, or other multimodal mobility enhancements to provide acceptable traffic operations and safety today and into the future.
2. **Interchange Access:** The current interchange at Exit 63 provides for movements to and from the west only, which is not in compliance with current Federal Highway Administration policy requiring that interchanges provide service for all movements. The study investigated options to bring Exit 63 into compliance with current policy.

The study recommendations include an ultimate I-90 typical selection and alignment. Year 2045 traffic volumes do not show a need for six lanes, and any future widening should be in the form of auxiliary lanes between Exits 61 and 63.

Eleven interchange alternatives were evaluated, with three feasible options identified in the study. These options are a diamond interchange at West Gate Road, a diamond interchange at Highway 1416, or a diverging diamond interchange at Highway 1416, at an estimated cost for the three options ranging from \$11.3 million to \$23.8 million.



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Additionally, the study provides a listing of recommended Intelligent Transportation Systems (ITS) solutions that provide safety and operational benefits to the I-90 corridor and the surrounding roadway network.

The study includes various targeted recommendations allowing for coordination of projects to meet the identified needs. This section of I-90 is scheduled for reconstruction in 2023, and all grading and paving will accommodate the future roadway widening, Exit 63 reconstruction, and ITS solutions when warranted.

STAFF RECOMMENDATION: Staff recommends acknowledgment of the I-90 Exit 61 to Exit 67 Corridor Study – Final Report.