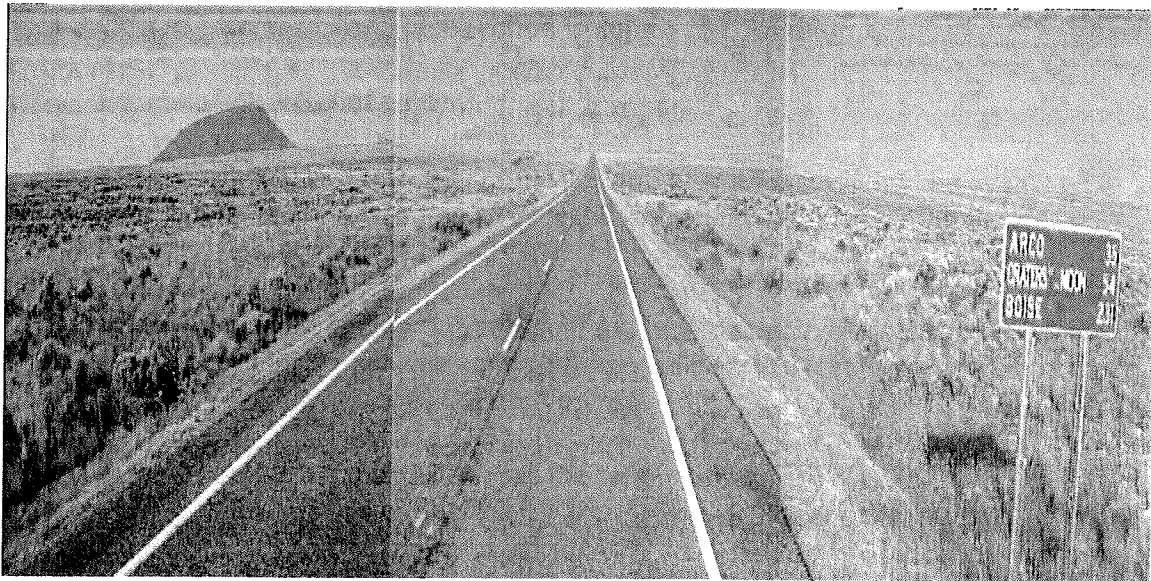


US 20 MILEPOSTS 263-301.3 POTENTIAL SAFETY IMPROVEMENT ANALYSIS



PREPARED BY IDAHO TRANSPORTATION DEPARTMENT
JULY 2005

SUMMARY
US 20 - Milepost 263 to Milepost 301.3
July 2005

- Extend 5 lane section westerly from MP 301.3 to MP 297
- Widen to add passing lanes in both directions at the following locations:
 - MP 270 – MP 272
 - MP 278.5 to MP 280.5
 - MP 289 – MP 291
- Cost of adding passing lanes at the 3 locations above is approx. \$5.6 million
- Cost of extending the 5 lane section is approx. \$9.5 million
- Estimated duration of construction is 1.5 years
- The specific location of each 2 mile passing lane segment would be evaluated in more depth before beginning any location or design work. Shifting these locations would not significantly affect the cost.
- On facilities with similar volumes and roadway characteristics the statewide average rate is 1.09 accidents per million vehicle miles (acc/mvm). On this facility the accident rate is 0.39 acc/mvm.
- Included in the attached packet are the following:

Page 2	Accident summary
Page 3	Traffic volume and speed summary
Page 4	Overview map
Page 5	Overview map detail with INL boundary
Page 6	Map with accident locations by hour of day
Pages 7-10	Maps showing potential improvement locations
Page 11	11x17 foldout with 2000-2004 accident summary
Pages 12-13	Typical roadway sections
Pages 14-15	Speed data from automatic traffic recorder
Pages 16-23	Volume data from automatic traffic recorder
Page 24	Accident rate calculations
Pages 25-28	Cost estimating data

Accident Summary

- There were 69 reported accidents during and including 2000 through 2004
- 43% of these accidents involved eastbound vehicles, 57% involved westbound vehicles
- 11% occurred on Sunday
- 19% on Monday
- 17% on Tuesday
- 19% on Wednesday
- 19% on Thursday
- 6% on Friday
- 9% on Saturday
- 55% occurred on dry pavement
- 29% on icy pavement
- 9% on snow covered pavement
- 7% on wet pavement
- 55% occurred during daylight hours
- 45% occurred during dark or dusk hours
- 7% of the accidents involved an impaired driver (alcohol or drugs)
- 19% involved wild animals
- 6% occurred between 12 midnight and 4 AM
- 33% between 4 and 8 AM
- 19% between 8 and 12 noon
- 19% between 12 and 4 PM
- 17% between 4 and 8 PM
- 6% between 8 and 12 midnight

Volume and Speed Summary

- There is an automatic traffic recorder located at milepost 295.02

- Posted speed is 65 mph
- Average speed for all traffic during 2004 was 67.9 mph
- 85% speed for 2004 was 73.8
- 74.2% of the traffic travel over the speed limit

- During February 2005 the average daily traffic across the counter was 2081
- There is an even split between eastbound and westbound
- 5 to 7 AM and 4 to 6 MP are peak times for westbound and eastbound, respectively

- Of the total daily westbound traffic, 60% pass the counter between 5 and 7 AM
 - During these hours 94% of the total traffic on the roadway is westbound

- Of the total daily eastbound traffic, 60% pass the counter between 4 and 6 PM
 - During these hours 88% of the total traffic on the roadway is eastbound