

**VAN DUESEN ROAD AREA  
2013 ROADWAY CAPITAL IMPROVEMENT  
PROGRAM COST ESTIMATE**



**ADOPTED BY GEM COUNTY  
BOARD OF COUNTY COMMISSIONERS**

**March 2013**

# Exhibit A

## VAN DUESEN ROAD AREA

### 2013 ROADWAY CAPITAL IMPROVEMENT PROGRAM

### COST ESTIMATE

**Location:** Van Duesen Road Area

**Study Boundary:**

- North: Washington County Line
- South: Black Canyon Highway and State Highway 52
- West: Mesa Ave extended North to Payette County Line
- East: Squaw Ridge to Payette County Line

**Roadway Engineering/Construction Costs**

<u>Classification</u>	<u>Length</u>	<u>Cost/Mile</u>	<u>Total</u>
Local	19.93 miles	\$760,000	\$15,146,800
Minor Collector	10.50 miles	\$950,000	\$9,975,000
Major Collector (1/2) <sup>1</sup>	5.64 miles	\$650,000	\$3,666,000
Sub Total			\$28,787,800

**Intersection Improvement Costs**

<u>Location</u>	<u>Cost</u>
Black Canyon Hwy and Van Duesen Rd <sup>1</sup>	\$125,000
Sub Total	\$125,000

**Right of Way Costs**

Right of Way acquisition: 79.43 acres @ \$20,200/acre \$1,604,486

**Capital Improvement Cost Total \$30,517,286**

**Based on a combined capacity of 32,250 vpd level of service threshold, cost per vehicle trip = \$946.**

For a typical single family residential development (9 trips/lot), **cost per lot = \$8,514**  
**70% amount = \$5,960**

**Note:** Assumes 1 major collector outlet at 8,500 vpd, ½ major collector outlet <sup>1</sup> at 4,250 vpd, and 3 minor collector outlets at 6,500 vpd for a total of 32,250 vpd.

<sup>1</sup> Shared with Lower Bench CIP Area

**Exhibit B**  
**VAN DUESEN ROAD AREA**  
**2013 ROADWAY CAPITAL IMPROVEMENT PROGRAM**  
**MAP OF CIP AREA**

