



Maroon Creek Bridge

FACT SHEET

THE OLD....

- ▶ The old Maroon Creek Bridge is 651 feet long 30 feet wide and 90 feet tall.
- ▶ It is a steel structure with steel trusses.
- ▶ The original owner and builder was Midland Railroad Company.
- ▶ Construction on the bridge was completed in 1888. It became the property of the Colorado Department of Highways in 1927, after the railroad corridor was abandoned.
- ▶ Until the new bridge was completed this year, the Maroon Creek structure was the oldest state highway bridge in service in Colorado.
- ▶ The old bridge is listed on the National Register of Historic Places.
- ▶ Since 1993, the *average* annual daily traffic has remained steady at about 22,300 (this number peaks in the summer months to about 28,000 vehicles a day).
- ▶ The traffic-carrying capacity of the old structure had reached its maximum, rendering the bridge “Functionally Obsolete.”
- ▶ In October of 2003, a bridge inspection revealed that significant damage had occurred to the carved sandstone bearing supports, rendering the bridge “Structurally Deficient.” (Repairs were made, bringing the bridge’s safety rating back up; but its replacement became even more necessary.)

...AND THE NEW

- ▶ The new Maroon Creek Bridge structure is a single concrete box girder design with two pier structures.
- ▶ It is 620 feet long, not including the two abutments, 73 feet wide and 100 feet tall.
- ▶ There are two, 11-foot lanes (one in each direction) for general vehicle travel, and two 11-foot designated bus lanes. There is also a 12-foot/4-inch-wide bicycle/pedestrian lane separated from traffic by a concrete barrier.
- ▶ Construction used 7,500 cubic yards of concrete, requiring about 800 concrete truck deliveries.
- ▶ There are 1,340,000 lbs. of reinforcing steel in the bridge.
- ▶ 317,000 linear feet (60 miles) of post tensioning strand
- ▶ 24 drilled shafts at 54-inch diameter and over 35 feet deep support the two piers; there are over 80 8-inch diameter micropiles drilled over 50 feet deep to support the abutment foundations, combining to support the structure
- ▶ It is unknown how many rolls of duct tape were used!