

Miller River Bridge draft cost estimate

Bridge No.: 999W
Bridge Name: Miller River
Year built: 1915

Cost estimate year	2022
Superstructure (above ground support system)	Concrete Girder
Length (ft)	1,140
# Spans	9
Width (24' curb to curb)	28
Bridge Square Footage	31,920
Inflation Factor	1.07
Substructure type (below ground support system)	Deep foundation

Bridge Construction Cost

		Unit cost	Quantity
Superstructure	sq.ft.	400	\$12,800,000
Substructure	sq.ft.	450	\$14,500,000
Total Construction cost per sq. ft. (superstructure and substructure)		850	
Removal of Existing Bridge			\$500,000
Work Access Bridge (to construct foundations)			\$500,000
Approach Costs			15% \$4,095,000
Subtotal (bridge cost in 2022)			\$32,395,000
Contingency		Contingency 30%	\$9,718,500
Preliminary Engineering Construction	Preliminary Engineering Construction	35%	\$11,338,250
Administration and Engineering	Preliminary Engineering Construction	25%	\$8,098,750

Assumptions/Risks

- Engineering and construction costs will increase with inflation.
- Due to the risk of the site, substructure needs to be designed to withstand the scour even for a temporary bridge.
- BNSF railroad is downstream and needs to be protected.
- The east end of the road is within the BNSF railroad right-of-way.
- The unit cost is estimated from recent bids and ACROW quotes

Total Cost **\$61,550,500**
(in 2022 dollars)