

# Dick Henderson Memorial Bridge



# Build Alternatives Comparison

**\$ = Cost\* (millions)**

**🕒 = Closure Time\* (days)**

**▲ = Maximum Grade**

\*Both cost and closure time are estimated ranges.

### Alternative 4

Complete Superstructure Replacement  
3-Lane Main Span & Approaches  
Steel Through Truss Design

### Alternative 3

Complete Superstructure Replacement  
3-Lane Main Span & Approaches  
Steel Plate Girder Design

### Alternatives 1 and 2

Rehabilitation of Existing Structure  
2-Lane Main Span  
Alternative 1: 9'-10" Lanes, Sidewalk Between Trusses  
Alternative 2: 10' Lanes, Sidewalk Outside Truss

### Alternative 5

Complete Superstructure Replacement  
3-Lane Main Span & Approaches  
Cable Stayed Design

### Alternative 6

Complete Superstructure Replacement  
3-Lane Main Span & Approaches  
Extradosed Design

\$ 27-32  
🕒 360-570  
▲ 7.0%

\$ 25-28  
🕒 320-460  
▲ 7.6%

\$ 26-29  
🕒 380-520  
▲ 7.0%

\$ 32-35  
🕒 540-680  
▲ 7.3%

\$ 32-35  
🕒 460-600  
▲ 7.5%

### Where will the bridge cross the river?

All alternatives being considered will cross the river at the existing location. In fact, all alternatives will make use of the existing piers. The bridges are depicted alongside each other here for a visual comparison of the replacement alternatives.

Kanawha River

**Shoulders**  
6ft-wide for each replacement alternative

**Travel Lanes**  
Three 12ft-wide lanes for each replacement alternative

**Sidewalk**  
5ft-wide for each replacement alternative

St. Albans

Nitro