

Arlington Avenue Bridges over the Truckee River

Level 1 Screening - Concept Bridge Alternatives, Qualitative Attribute Guidelines

Construction Cost

- In relative terms, how does construction cost compare to the cost of other Alternates. Greater complexity in design and/or construction and greater bridge deck area will typically lead to increased cost.
- Are construction techniques expected to be common and familiar to a large pool of contractors and lead to more competitive bidding?

Construction Schedule and Cost Risks

- Does the Alternate increase the potential for unforeseen issues to arise during construction affecting schedule and/or cost?
- Will materials and/or fabrication require long lead times for delivery and installation and impact schedule?
- Could unexpected delays lead to construction activities being adversely impacted during periods of high flood flow?

Existing Infrastructure Impacts

- Can the Alternate be accommodated on the Arlington Avenue alignment with minimal change in roadway profile?
- Is a deep superstructure (deck and supporting components) required which could lead to a rise in roadway profile which could then affect adjacent properties?
- Will impacts to the potentially historic floodwalls be greater for an Alternate compared to others?
- Does the Alternate readily provide means for carrying utilities across the river (power, water, communications, etc.)

Maintenance and Inspection Access

- Will the Alternate inhibit access or require unique equipment to inspect and maintain the structure or utilities it may carry?
- Will the Alternate inhibit access for flood debris removal in an emergency situation?
- Will the Alternate permit equipment access for sediment removal and routine channel maintenance activities? The preferred Alternate will need to retain or improve existing channel access (currently from Barbara Bennet Park).

Long Term Maintenance Costs

- Will the Alternate require more or less frequent maintenance to ensure its long-term performance (protective painting, for example)

Environmental Impacts

Will construction of the Alternate have greater direct or indirect impacts on the river when compared to others?

River Recreation Impacts

- Will the Alternate contribute to or detract from the river recreation experience?
- Will the Alternate inhibit river recreation access?
- Will the Alternate adversely affect access to Wingfield Park?

Bridge Aesthetics

- How well does the Alternate represent your vision for the "look" of the structure?
- Does the Alternate compliment its surroundings, or does it detract from the visual experience in the river and/or downtown corridor?
- Should a signature structure be considered? Or is a more traditional structure with aesthetic enhancements (color and texture) more appropriate?

Attributes Y and Z

- Placeholders to allow the reviewer to add an attribute if the reviewer feels strongly the current attribute list does not capture an impact or concern. If an additional attribute is identified, note it on the scoring card. Proposed additions will be discussed with the group during the TAC meeting, and added/scored as may be appropriate based on the group discussion.

Existing Conditions

North Bridge, View Looking East



South Bridge, View Looking East

