



Basket Handle True Arch Twin Bridges



- **Four finalist bridge types were presented at the May 23, 2006 public information meeting**
- **Four bridge types were compared (true arch, cable stayed and two variations of tied arch)**
 - **Engineering**
 - All four finalist schemes satisfy basic engineering requirements with comparable overall performance
 - **Financial**
 - All four finalist schemes have comparable financial performance, with a cost differential of approximately \$6 million (high versus low)
 - **Aesthetics**
 - *Project Team Assessment*: true arch scheme provides the best overall aesthetic performance
 - *Public Assessment*: true arch or cable stayed schemes were favored by the public; there was low public support for the tied arch schemes
- **True Arch and Cable stayed bridge types were advanced for further study**
- **Basket Handle True Arch Twin Bridges recommended by the project team:**
 - Public preferred bridge type; best overall ranking
 - Twin decks allow for efficient deck replacement options
 - Twin bridges are more structurally redundant
 - Provides flexibility for traffic and construction staging
 - Higher level of security with the twin bridges
- **Features of the Basket Handle True Arch Twin Bridge:**
 - The arches extend below the bridge deck, visually ending at the water
 - The two pieces of each arch come together at the top (10 feet apart at apex versus 72 feet at the deck) forming a “basket handle”
 - Vertical hangers extend from the arch to the bridge deck

