

**The Flatiron-Manson team has a strong track record in successful bridge projects and is committed to building a safe, quality and beautiful bridge for Minnesota**

**Team:**

Firms on the Flatiron-Manson team have worked together before on bridges very similar to this one, ensuring the success of this large and technically challenging construction project. This team experience includes successful design-build projects. Leaders of the Flatiron-Manson team are:

- Peter Sanderson, Project Manager, with 37 years of similar experience in constructing major bridges with over \$2 billion in construction value
- Linda Figg, with her specialty in creating world-class bridges by blending precise engineering with timeless artistry and involving the public to gain its input and build consensus
- Alan Phipps, Design Manager who led the design of the successful Sagadahoc Bridge, completed by Flatiron and FIGG, and St. Paul's Wabasha Freedom Bridge
- Frank Mydlinski, Quality Manager/Construction Quality Assurance Manager, who has served in this same role on several major bridge projects

**Building the Bridge Safely:**

- Flatiron has an exemplary safety record. The safety of the traveling public, environment and the construction team will be foremost during all phases of the project.
- Proven safe work practices are a part of the Flatiron-Manson work plan. In addition to Flatiron-Manson's full time safety director on site during construction, Mn/DOT will have a safety inspector on site. Occupational Safety and Health Administration (OSHA), the federal agency responsible for enforcing safe work practices, will also be on site. Daily and weekly inspections will be completed and recorded, along with regular training and safety briefings.



*Associated General Contractors of California, High Hazard Job Safety Award, New Carquinez Bridge*

**Quality/Performance Evaluation:**

- The Flatiron-Manson Quality Management Plan and integrated approach will exceed Mn/DOT expectations and is built upon previous successful programs.
- Bi-monthly evaluations of the published quality goals will be completed. Co-locating project personnel will ensure coordination of design/construction.
- Elements of the bridge have been designed to avoid or minimize potentially noisy construction practices. Appropriately scheduled work and properly maintained equipment will minimize noise impacts for those living/working near the site.

**Enhancements:**

- Structural enhancements surpassing Mn/DOT's structural criteria include use of materials such as high performance concrete and pre-stressing to provide superior durability.
- Multiple levels of redundancy are included in the design, which uses two independent structures, each with its own foundation system. Each

(over)





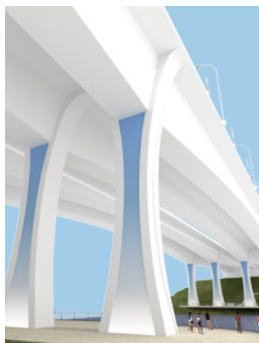
*Multiple box girders provide redundancy*

structure consists of two side-by-side box girders, providing multiple ways to distribute the weight of traffic on the bridge. Hundreds of individual high strength steel strands embedded in the concrete of each box girder carry loads. A column directly under each box girder provides a direct load path to the foundations, which consist of multiple drilled shafts socketed into bedrock.

- Geometric enhancements eliminate all of the existing sub-standard roadway geometry associated with the I-35W profiles, and clearances and safety concerns at University Avenue and Washington Avenue
- The ‘Smart Bridge’ design incorporates an integrated state-of-the-art sensor and monitoring system.

### **Aesthetics and Being in Context with the Surrounding Landscape:**

- The bridge design was developed based on FIGG’s proven design principles for Creating Bridges as Art®
- The “Arches, Water, Reflection” theme for the design respects the bridge setting, materials and design of neighboring structures and is complementary to the context of the site.
- FIGG is the industry leader in the design of major concrete bridges. In the firm’s almost 30 year history, FIGG has led the industry in innovations to create award-winning aesthetics and speed construction. The Flatiron-Manson team believes that a concrete structure is the most appropriate choice for this particular bridge location, required schedule and desired world class appearance.



*Pier options for community selections*

### **Community Involvement:**

- The bridge design will be finalized with input gathered from the community during a FIGG Bridge Design Charette™. This process provides community participants with an opportunity to select the final bridge design features of various elements. Design charettes will also be held with the community specifically focused on a memorial.
- Other public involvement opportunities include:
  - ◆ Weekly Sidewalk Superintendent Talks
  - ◆ Weekend classes for children through the Minneapolis Science Museum
  - ◆ Quarterly design and construction updates for University of Minnesota engineering students
  - ◆ The opportunity to work with the University of Minnesota to create a project documentary

