THE LOUISVILLE-SOUTHERN INDIANA OHIO RIVER BRIDGES PROJECT
SECTION 2, DOWNTOWN BRIDGE

FIFTH KENNEDY INTERCHANGE & DOWNTOWN INDIANA
AREA ADVISORY TEAM MEETING
THE FRAZIER INTERNATIONAL HISTORY MUSEUM
829 WEST MAIN STREET, LOUISVILLE, KY
JULY 11, 2006
5:30 - 8:00 PM

SUBJECT: Ohio River Bridges Project Recommended Bridge Type Alternatives

MEETING ATTENDEES

(AAT Members)
Barry Alberts – Downtown Development Corporation
Emily Boone – Clifton Community Council
Aida Copic – Louisville Metro
Peggy Duffy – City of Jeffersonville
Bill Gatewood – Louisville Metro Councilman Tandy's Office
Mohammad Nouri – Louisville Metro
Joe Rafferty – Rose Hill Neighborhood Association
Jim Segrest – Butchertown Neighborhood Association
Mary Vanderpool – Southern Indiana Realtors Association

(Other Organizations)
Leslie Barrus – River Fields

Ohio River Bridges Project Team Members
Bart Bryant – Bi-State Management Team
Dan Carrier – Section 5 Design Team/Parsons Brinckerhoff
Gary Elder – Section 5 Design Team/New West Agency
George Jones – Federal Highway Administration
Kristen Jordan – CTS-GEC
Steve Nicaise – CTS-GEC
John Sacksteder – CTS-GEC
Lee Walker – Kentucky Ombudsman
Samantha Wright – Section 5 Design Team/Wilbur Smith Associates

Section 2 Design Team/Michael Baker Jr., Inc.
Kenny Caples – Niche Marketing
John Dietrick – Michael Baker Jr., Inc.
Rick Fitch – Burgess & Niple
Shaun Lockhart – Niche Marketing
Tami Milburn – Michael Baker Jr., Inc.

THE LOUISVILLE-SOUTHERN INDIANA OHIO RIVER BRIDGES PROJECT
DOWNTOWN BRIDGE, SECTION 2

July 11, 2006 Area Advisory Team Meeting Summary

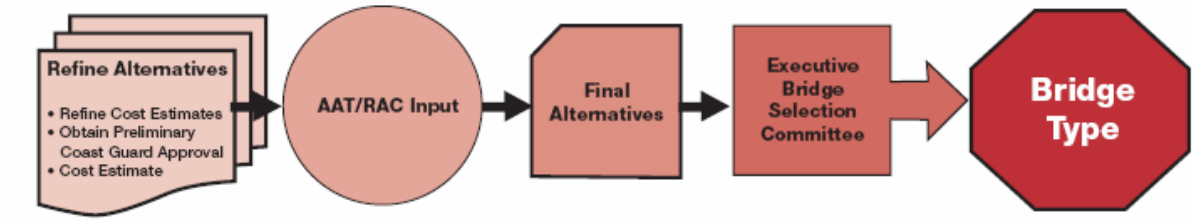
Rohena Miller – Niche Marketing
Patrick Osborne – Michael Baker Jr., Inc.
Skip Smallridge – Crosby Schlessinger Smallridge
Aaron Stover – Michael Baker Jr., Inc.
Laura Toole – Michael Baker Jr., Inc.
J.B. Williams – Michael Baker Jr., Inc.

MEETING SUMMARY

The 2nd floor of the Frazier Museum opened one half-hour early at 5:30 PM so that Area Advisory Team members could take some time to view the three recommended Downtown Bridge models and display board renderings. At 6:00 PM, the meeting was called to order. J.B. Williams, project manager for the consultant team for the Downtown Bridge, welcomed the Area Advisory Teams and introduced members of the Section 2 Design Team as well as representatives from Community Transportation Solutions and the Bi-State Management Team. The assembled members of the Design Team then presented the following information, shown below as abridged. While describing each recommended alternative, the Downtown team also presented aerial and drive through plasma screen animations.

Meeting Agenda:
- Welcome/Introductions
- The Step 4 Process
- What You Have Told Us
- Three Recommended Bridge Alternatives
- Next Steps

The Step 4 Process: Select Bridge Type



What You Have Told Us:
Step 1: DESIGN GUIDELINES
- Clean, simple and elegant
- Consider long term maintenance costs
- Aesthetics should focus on the river

- Creative, state-of-the-art design
- Compatible with Sections 1 & 3
- Avoid overshadowing the surroundings
- Respect views from the park and the river
- Provide open views from the bridge

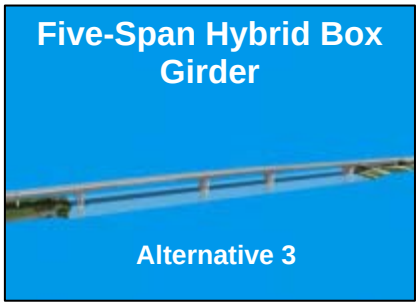
Step 2: CONCEPT DEVELOPMENT
Your Aesthetic Preferences
- Visual simplicity
- Compatibility with nearby bridges
- Symmetric bridges
- Lower height bridges

12 Bridge Concepts Developed

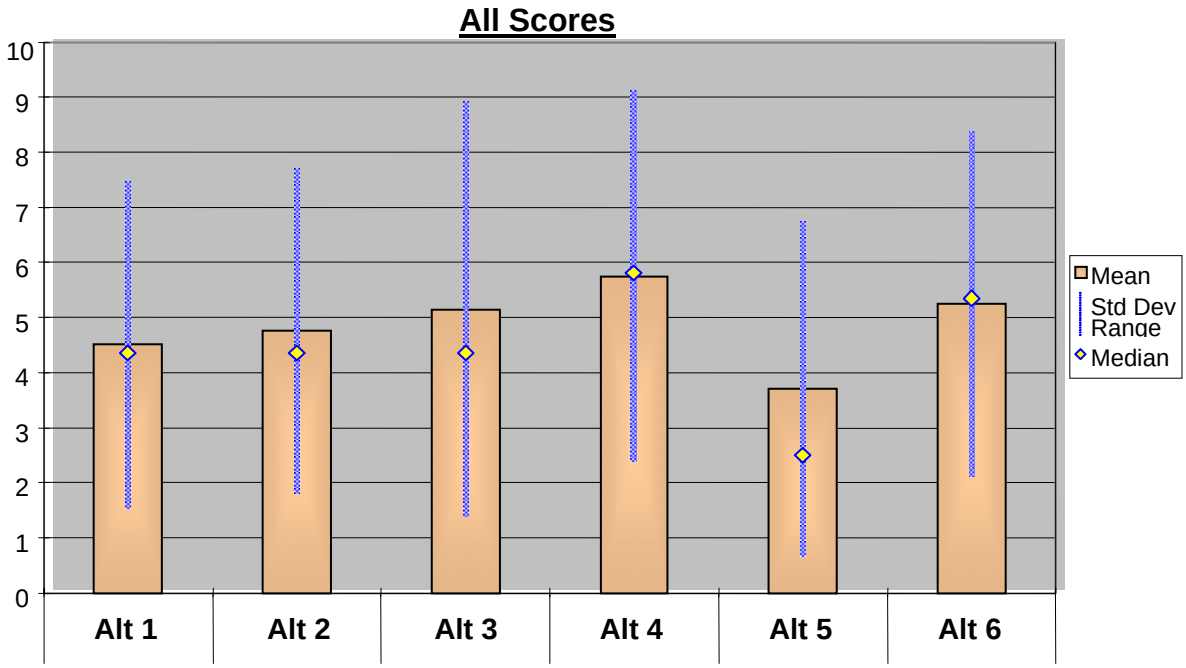
Step 3: ALTERNATIVES DEVELOPMENT
12 Bridge Concepts Analyzed
- Engineering assessment
- Preliminary cost estimates
- Constructability
- Environmental and Context Sensitive Issues
- Aesthetic preferences

6 Bridge Alternatives Developed

Six Bridge Alternatives



Step 3 Polling Results



STEP 4: 3 RECOMMENDED BRIDGE ALTERNATIVES:

Alternative 1: Single Tower Cable-Stayed

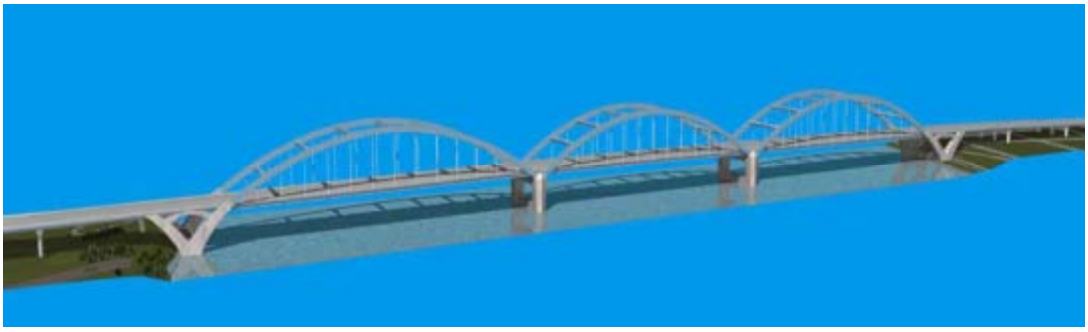
Engineering Qualities
- Single "A" Shaped Tower
- Symmetrical Span Arrangement about Center Tower
- Semi-Fan Cable Arrangement

Public Feedback
- Provides a gateway
- Transparent
- Dramatic but not overpowering

Alternative 2: Three Tower Cable-Stayed

Engineering Qualities
- Three Towers with vertical legs
- Span Arrangement symmetric about Center Tower
- Harped Cable Arrangement

Public Feedback
- Open, Nothing Overhead
- "Low Profile"
- "Visually Interesting"



Alternative 3: Three Span Thru Arch

Engineering Qualities
- Three nearly equal spans
- Vertical Arch with horizontal bracing
- V-shaped arched Piers at shoreline

Public Feedback
- Symmetric
- Simple vertical arch ribs
- Spans entire river
- "Complements the area"

Expected Maintenance Needs

All Alternatives

- Inspections
- Painting
  - Steel superstructure
  - Steel arch
- Deck repairs

Environmental Commitments

Approximate Amount of Coverage in Riverfront Park

	Alternative 1 Single Tower Cable-Stayed	Alternative 2 Three Tower Cable-Stayed	Alternative 3 Three Span Thru Arch
Bridge Span Area (0.4 Acres)	0.4 Acres	0.4 Acres	0.4 Acres
Bridge Pier Use (0.031 Acres)	0.006 Acres	0.004 Acres	0.044 Acres

Approximate Amount of Coverage in Waterfront Park

	Alternative 1 Single Tower Cable-Stayed	Alternative 2 Three Tower Cable-Stayed	Alternative 3 Three Span Thru Arch
Bridge Span Area (1.2 Acres)	1.3 Acres	1.3 Acres	1.3 Acres
Bridge Pier Use (0.050 Acres)	0.012 Acres	0.009 Acres	0.001Acres

What's Next?

✓ Finalize Recommended Bridge Alternatives

✓ Submit to Exec. Bridge Selection Committee
- Summer 2006

✓ Final Bridge Type Selection
- Fall 2006

✓ Begin Final Bridge Design
- Early 2007

AAT Member Comments:

<u>Alternative 1: Single Tower Cable-Stayed</u>
- Cable-Stayed bridges offer open view from Jeffersonville
- Alternative 1 most dramatic; a good element
- Alternative 1 does not seem to fit in well within the rhythm of downtown
- Like the style of Alternative 1
- Alternative 1 stands out; a good feature
- Would like something that stands out
- Single tower less obtrusive than thrust block
- Openness is better from Indiana and all points of the area
- From Jeffersonville, there is an open, welcome approach
- Doesn't show opportunity for invention, subtlety
- Single tower less obtrusive than the arch thrust blocks
- This alternative is simple, less cluttered

<u>Alternative 2: Three Tower Cable-Stayed</u>
- Cable-Stayed bridges offer open view from Jeffersonville
- With Alternative 2 we do not see state of the art as well as with Alternative 3
- Alternative 2 and 3 relate well with rhythm of JFK and fitting in (reinforces)
- Like the openness of Alternative 2
- Openness is better from Indiana and all points of the area
- From Jeffersonville, there is an open, welcome approach
- May be unique structurally but are perceived as typical
- Open approach better from Indiana

<u>Alternative 3: Three Span Thru Arch</u>
- Thrust block looks goofy (V – shaped)
- Do not want a copy of someone else's bridge
- Concerned that we are not getting something unique
- Arch is obtrusive; thrust block is a negative impact

- Thrust block is also obtrusive
- Colorization of thrust block may help
- Thrust block looks out of balance
- Scale down outward block
- With Alternative 3 we see more state of the art than with Alternative 2
- Alternative 2 and 3 relate well with rhythm of JFK and fitting in (reinforces)
- Like security of arch
- Maintenance is an issue
- From Jeffersonville, this is visually intrusive
- Single tower less obtrusive than the arch thrust blocks
- May be unique structurally but are perceived as typical

Other Bridge Comments

- Connection of pedestrian bikeway not being looked at too closely
- Integrate some sort of separation with walkway and traffic
- Like the rhythm of these bridges from the Waterfront parks
- Responded well to design guidelines how they relate to rhythm of downtown
- Need something grand to fit in our city

There being no other questions or comments; the meeting was adjourned.

APPENDIX: RECOMMENDED BRIDGE TYPE RENDERINGS

ALTERNATIVE 1 – LOOKING DOWN RIVER

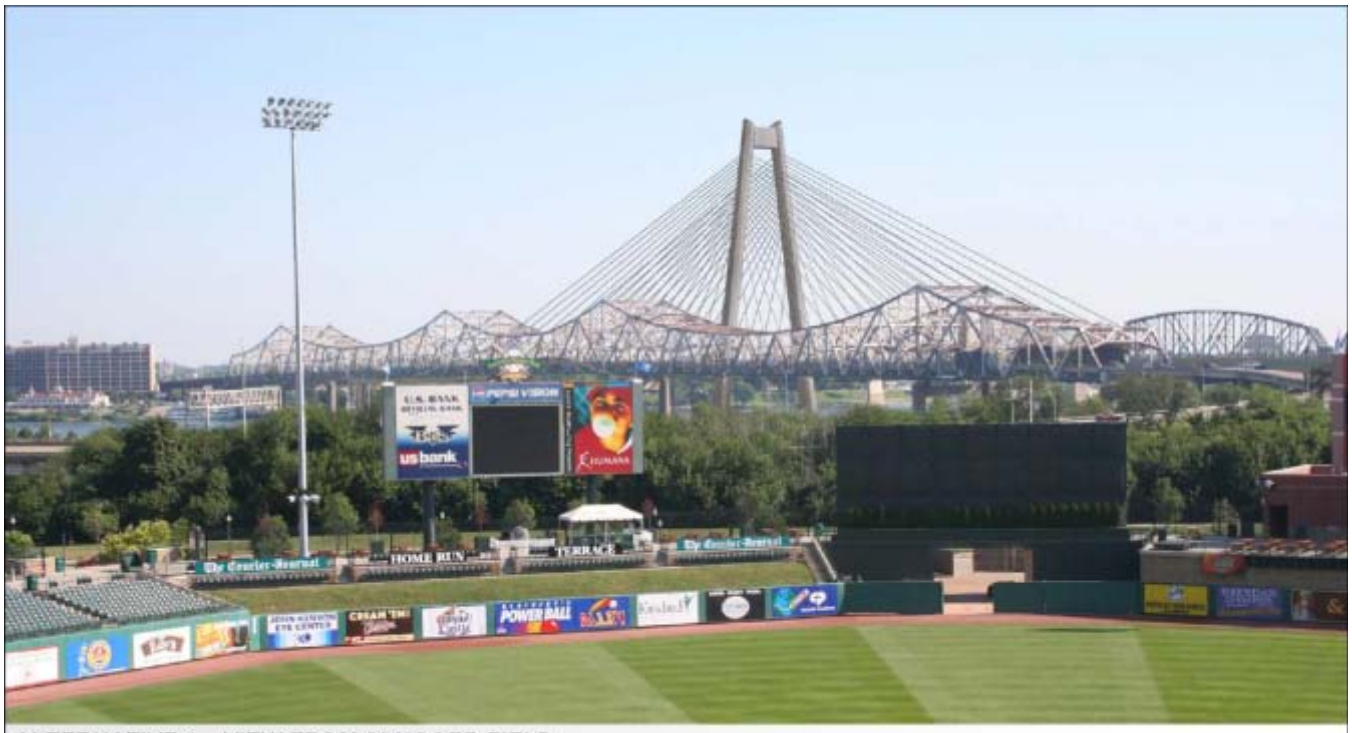
ALTERNATIVE 1 – LOOKING UP RIVER FROM THE CLARK MEMORIAL BRIDGE

ALTERNATIVE 1 – AERIAL LOOKING TOWARD LOUISVILLE

ALTERNATIVE 1 – DRIVERS PERSPECTIVE

ALTERNATIVE 1 – WATERFRONT PARK, LOUISVILLE, KENTUCKY

ALTERNATIVE 1 – RIVERFRONT PARK, JEFFERSONVILLE, INDIANA



ALTERNATIVE 1 – VIEW FROM SLUGGER FIELD

ALTERNATIVE 1 – LOOKING TOWARD INDIANA BETWEEN BRIDGES

ALTERNATIVE 1 – NIGHT VIEW FROM RIVERFRONT PARK

ALTERNATIVE 1 – NIGHT VIEW, DRIVERS PERSPECTIVE

ALTERNATIVE 2 – LOOKING DOWN RIVER

ALTERNATIVE 2 – LOOKING UP RIVER FROM THE CLARK MEMORIAL BRIDGE

ALTERNATIVE 2 – AERIAL LOOKING TOWARD LOUISVILLE

ALTERNATIVE 2 – DRIVERS PERSPECTIVE

ALTERNATIVE 2 – WATERFRONT PARK, LOUISVILLE, KENTUCKY

ALTERNATIVE 2 – RIVERFRONT PARK, JEFFERSONVILLE, INDIANA

ALTERNATIVE 2 – VIEW FROM SLUGGER FIELD

ALTERNATIVE 2 – LOOKING TOWARD INDIANA BETWEEN BRIDGES

ALTERNATIVE 2 – NIGHT VIEW FROM RIVERFRONT PARK

ALTERNATIVE 2 – NIGHT VIEW, DRIVERS PERSPECTIVE

ALTERNATIVE 3 – LOOKING DOWN RIVER

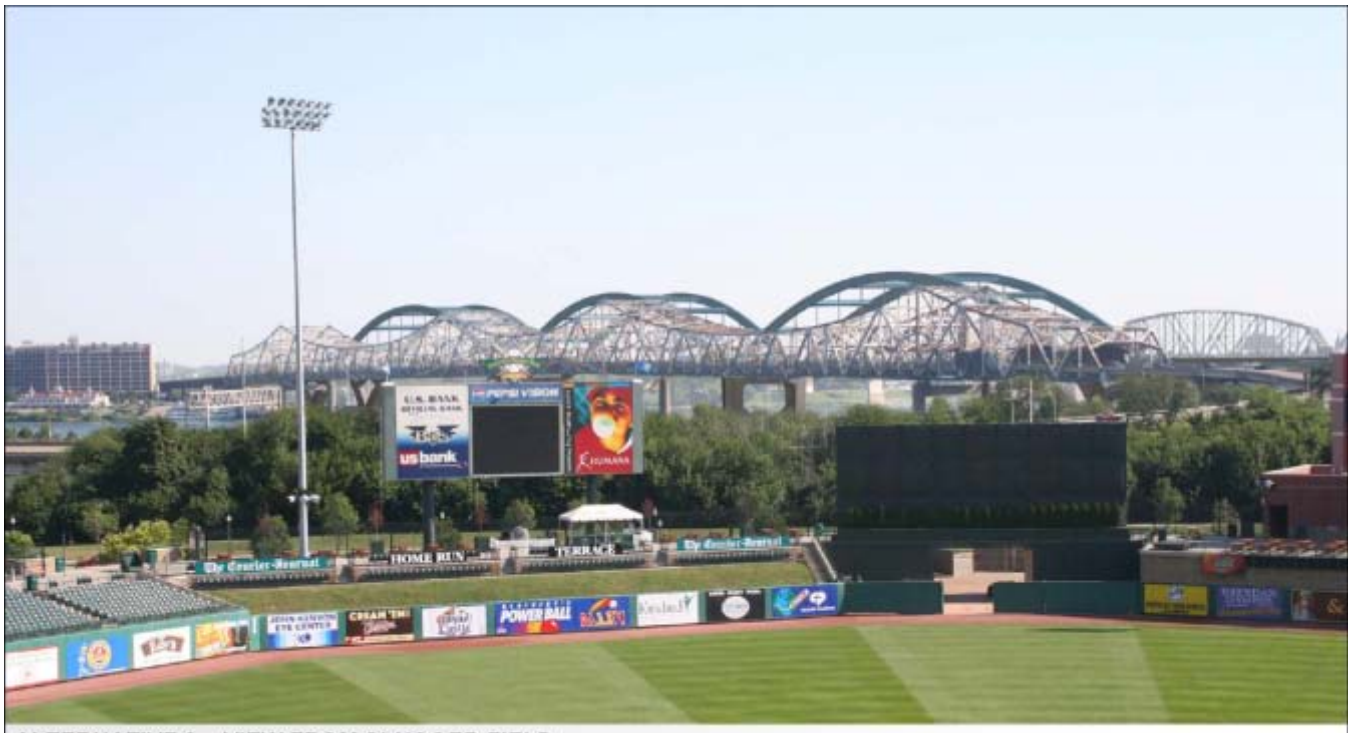
ALTERNATIVE 3 – LOOKING UP RIVER FROM THE CLARK MEMORIAL BRIDGE

ALTERNATIVE 3 – AERIAL LOOKING TOWARD LOUISVILLE

ALTERNATIVE 3 – DRIVERS PERSPECTIVE

ALTERNATIVE 3 – WATERFRONT PARK, LOUISVILLE, KENTUCKY

ALTERNATIVE 3 – RIVERFRONT PARK, JEFFERSONVILLE, INDIANA



ALTERNATIVE 3 – VIEW FROM SLUGGER FIELD

ALTERNATIVE 3 – LOOKING TOWARD INDIANA BETWEEN BRIDGES

ALTERNATIVE 3 – NIGHT VIEW FROM RIVERFRONT PARK

ALTERNATIVE 3 – NIGHT VIEW, DRIVERS PERSPECTIVE