Memorandum

DATE August 29, 2008

TO Trinity River Committee Members:
   David A. Neumann (Chair)
   Mayor Pro Tem Dr. Elba Garcia (Vice-Chair)
   Deputy Mayor Pro Tem Dwaine Caraway
   Carolyn R. Davis
   Linda Koop

   Pauline Medrano
   Mitchell Rasansky
   Steve Salazar

SUBJECT Parkway Design Guidelines Follow-Up

At the June 10, 2008 meeting of the Trinity River Corridor Project Committee, the Parkway Design Guidelines were presented and discussed. Discussion will continue for the Parkway Design Guidelines at the September 2, 2008 meeting of the Trinity River Corridor Project Committee. The focus for this discussion will be windmills and lighting.

Ignacio Bunster of Wallace, Robert & Todd (WRT), which is one of the consultants on the Lakes Design Team, will be available for questions.

If you have additional questions, please let me know.

Jill A. Jordan, P.E.
Assistant City Manager

THE TRINITY
DALLAS

Attachment

c: Honorable Mayor and Members of the City Council
   Mary K. Suhm, City Manager
   Ryan S. Evans, First Assistant City Manager
   Ramon F. Miguez, P.E., Assistant City Manager
   A. C. Gonzalez, Assistant City Manager
   David O. Brown, Interim Assistant City Manager
   David K. Cook, Chief Financial Officer
   Deborah A. Watkins, City Secretary
   Thomas P. Perkins, Jr., City Attorney
   Craig D. Kinton, City Auditor
   Judge C. Victor Lander
   Helena Stevens-Thompson, Asst. to the City Manager
   Frank Librio, Director, Public Information Office

"Dallas, the City that works: diverse, vibrant, and progressive"
Parkway Design Guidelines Follow-up
for the Trinity River Corridor Project Committee
September 2, 2008
Examples of Wind Generators
80 windmills can power more than half the Parkway’s roadway lights.

Trinity River Park Design Guidelines
Windmill Cost/Benefit Summary

- 80 windmills would be spaced 110 feet apart along a two-mile length of the Parkway and use 90-foot tall poles.
- If built today as 10 KW turbines with a 25-foot long blade, these windmills would cost $10 million and reach break-even by the 29th year in operation.
- If the size of the turbines were 50 KW with a 50-foot long blades, these windmills would cost $18 million and reach break-even by the 14th year in operation.
- With technological advances in the future, the windmill costs can continue to decline while energy costs could continue to climb.
Windmill Infrastructure Cost to City As Part of Parkway Construction

- Implement conduits, manholes, handholes as part of Parkway construction
- City cost is estimated to be $225,000, which includes inflation, contingency, contractor costs
- Minimum installed infrastructure to allow future construction of windmills without major disruption or cost to Parkway
- Keeps windmill option open as feasible alternative that can be decided by the City in the future
Conceptual Lighting Plan

- West Dallas Fields, Rowing Facility, and Promenade along Urban Lake will use stadium lighting, while primary trail from Cedars West to Crow Park, including gateways; Oak Lawn, Fast Track Overlook, Houston Ramp, Founders Park, Elouise Lundy, Cedars West will use 18-foot tall light poles at 80-foot spacing.

- The NTTA’s desire is to light the Trinity Parkway at entrance/exit ramps and frontage roads.
Trinity Parkway Lighting
Current Status

• NTTA supports lighting for on/off ramps and frontage roads for safety

• The State supports lighting of highway facilities that will conserve energy consumption, reduce glare, minimize light pollution, and preserve the natural night environment

• NTTA’s current stance is that full linear lighting along the Parkway’s main lanes would be a City cost

• Full linear lighting along the Trinity Parkway could cost an estimated $4-5 million plus energy costs