

Bridge Proposals

The city of Louisville is in the process of planning two new bridge projects. One of the phases of the project includes getting input from various student engineers for designs of the bridges. Because of your recent success in the local bridge building contest, your school has decided to submit your plans for consideration.

Directions for writing: Prepare a proposal which includes the following information:

- Bridge operation and safety features
- Economic benefits for the community
- Records maintained during your design and construction of the model
- Photographs or video documentation of the process from start to finish
- Differences in the original estimations and the actual costs for construction of the model (This will illustrate your cost analysis ability)
- Discussion of the mathematical and physical principles used (You don't want to have the same problems the Tacoma Narrows Bridge designers did!)