



Projects First-Round Winner
Innovations Challenge

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Prepared by Transportation Planning
Missouri Department of Transportation

Bridge Definition Summary Form



Description

A point system was determined to be the most effective way to ensure that the contractor's focus is on the bridges that exhibit the conditions referenced above the most. Points were assigned for the type of treatment applied to the bridge (Replace, Redeck, and HydroDemo). Then, a size factor and a weighted factor based on the level of need for repair were applied to the points. Finally, the points are totaled and the score is used to assess the level of value of the proposed repairs. Previously, these types of questions and issues were resolved by MoDOT during the preliminary design phase. This approach allows design builders the opportunity to review the Bridge Definition Summary along with supporting data, allowing them to determine the best way to solve the issues at hand, saving MoDOT time and money through the design-build process.

Benefit

There are multiple benefits to using the Bridge Definition Summary form. First, the form saves MoDOT money by encouraging proposers for design-build projects to focus attention and monetary resources on the bridges that need the most work by assigning the highest point values to those bridges. To win the contract, design-build teams are required to maximize points. The form saves time by prioritizing the bridges for the proposers and allowing them to use their time to develop the most effective way to repair or replace the structures. The form simplifies work by organizing and prioritizing the bridges based on need of repair and not leaving it to the proposer to determine. It is then the design-build team's responsibility to provide a design that addresses the situation. The form prioritizes safety through the use of weighted factors. The weighted factors incentivize the contractor to focus on the bridges with the greatest safety concerns.

Materials and Labor

The total amount on time for this project took roughly 40 hours.

For More Information Contact:

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Additional information, photos or videos can be seen by accessing Innovations Challenge SharePoint page at: <http://sharepoint/systemdelivery/TP/Documents/InnovationsChallenge.aspx>