MICHIGAN STATE UNIVERSITY
Infrastructure Planning and Facilites

GEI Consultants

Great Lakes Commission
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Great Lakes Sediment and Nutrient Reduction Program

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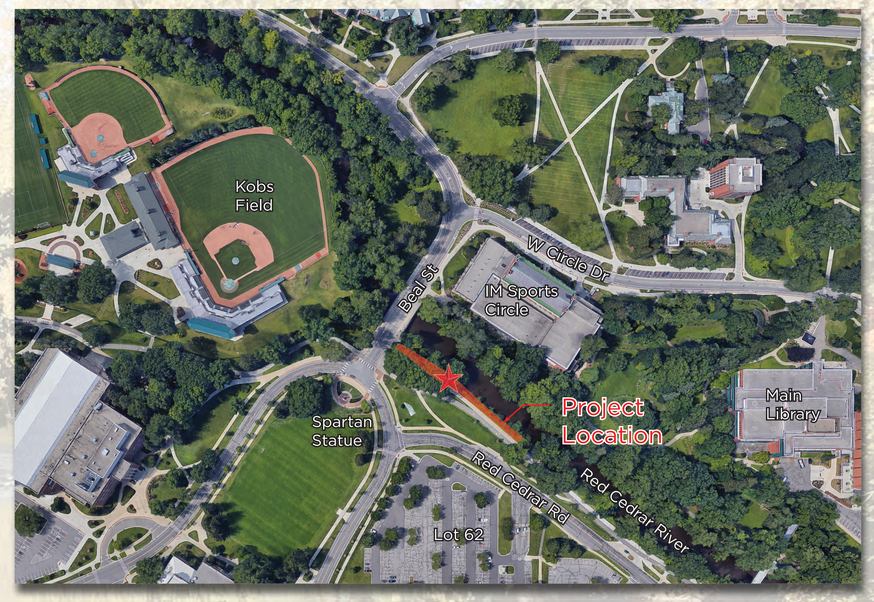
MSU Red Cedar River Riverbank Restoration

Background Information

- Soil erosion is occurring in numerous locations along three miles of the Red Cedar River throughout the MSU campus.
- Erosion is a natural process, but has accelerated due to an increase in regional urbanization.
- The accelerated erosion is degrading habitat in the Red Cedar River corridor through the loss of trees, excessive sedimentation, and increased turbidity.
- The accelerated erosion may also cause a public safety hazard due to the infrastructure that is in place along the river.

Project Information

- This project is along the walking and biking path adjacent to Spartan stadium. In some areas the edge of pathway is only 3-5 feet from top of bank.
- The riverbank erosion causes a potential falling hazard. Invasive species grow on the riverbank and they are competing with native species and altering aquatic habitats.
- By using Bioengineered Lifts the project will be constructed along approximately 275’ of the riverbank.
- This technique uses rock, natural materials, and native plants to reduce riverbank erosion.



Bioengineered lift construction, using rock, coconut fiber material, soil, and native shrubs on Lake Bomoseen in Castleton, Vermont