



# MUSKEGON RIVER RAIL BRIDGE







Construction Manager/General Contractor Project  
Great Lakes Central Railroad Operated

Village of Temple, Clare County

Michigan Department of Transportation | Bay Region

Wednesday, May 29, 2024 - 9 a.m.



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## Flood hazard:

### Motor Vehicles

- Monitor local road conditions and obey closure signs. Don't drive through flowing water. Six inches of water may cause you to lose control of your vehicle and 2 feet of water will carry most cars away.
- Standing water may not carry you away, but you may not be able to tell how deep it is. Unless you know how deep it is, it's best to not drive through standing water.
- Be aware of seen and unseen road hazards such as building debris, tree limbs and potholes. Also, floods bring mud and roads can become very slick.

### Flood Waters (Drowning/Walking)

- Same as with driving, 6 inches of moving water may cause you to lose your footing and 2 feet of water will carry you away. Stay out of moving water.
- Even standing water can present similar hazards. The water most likely will not be clear; therefore, you won't see how deep even a small puddle is. Avoid walking in standing water unless you know it is safe to do so.
- Be aware of seen and unseen hazards such as building debris, tree limbs, and potholes. Also, floods bring mud and walkways can become very slick.



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## Rail Bridge Over Muskegon River

B02-18201.10

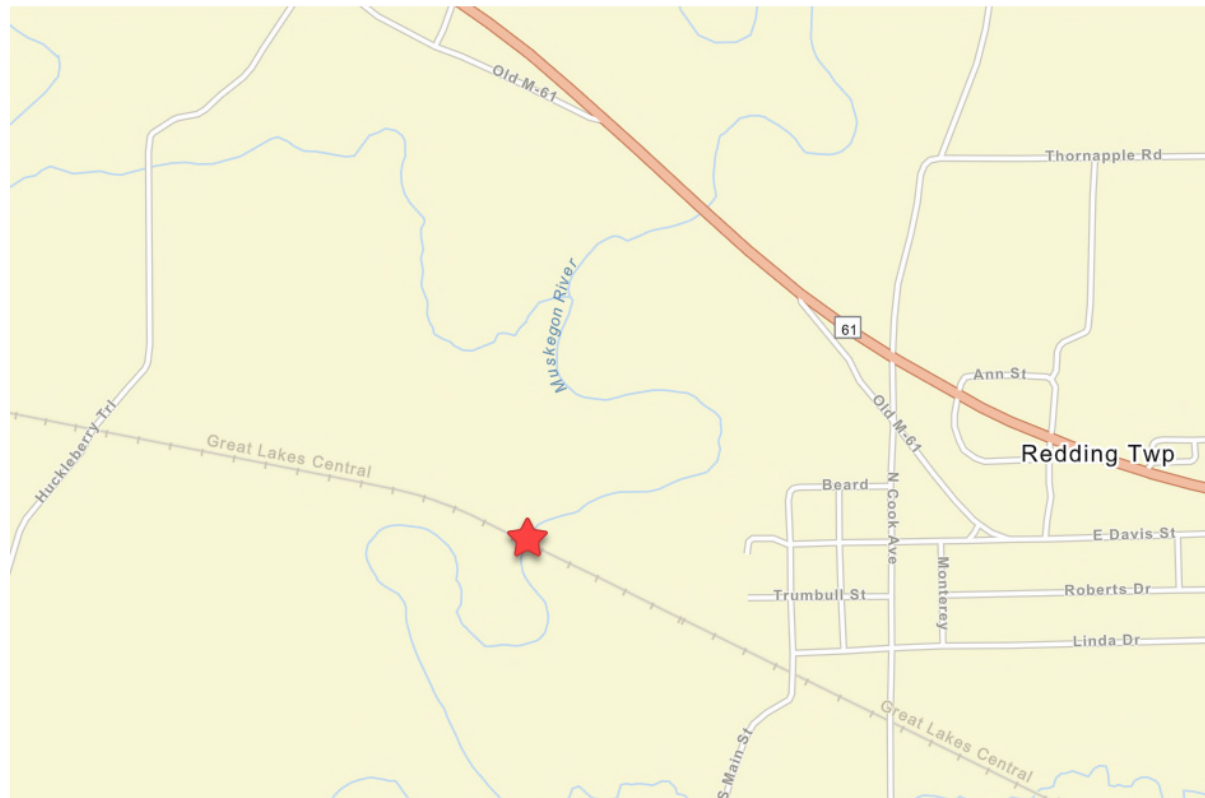
State-owned

Operated by Great Lakes Central RR

Village of Temple

Redding Township

Clare County



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State-owned Rail Bridge Over Muskegon River



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Plan View



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# Project Summary



North Elevation



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# Project Summary



South Elevation



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East Approach



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## West Approach



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# Aerial Drone Footage



<https://youtu.be/VNJ3-VpE2Dg>



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# Project Goals



Collaboration between MDOT Office of Rail, GLC RR, and Clare County Road Commission.



Construction input on constructability, maintenance of rail traffic and on-track equipment tie-up locations.



Minimize the footprint of the construction impact areas and haul routes to mitigate environmental impacts.



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# Project Goals



Minimize the number of required scheduled rail service outages to accommodate the necessary construction activities.



Maintain recreational traffic on the Muskegon River.



Restrict/limit permanent impacts outside of railroad property.



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## Key Risks

**Schedule:** Evaluating accelerated bridge construction methods to limit track outage windows (days not months) to maintain railroad service

**Access:** Determining the best method for working within a constrained site and remote project location with limited access

**Environmental:** Identifying and minimizing potential construction staging/laydown areas, access roads, and crane pads within environmentally sensitive areas

**Railroad:** Providing contingency planning for critical construction operation



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## Railroad Coordination

- Coordination with Great Lakes Central Railroad to limit track outage and maintain rail service

## Access Coordination

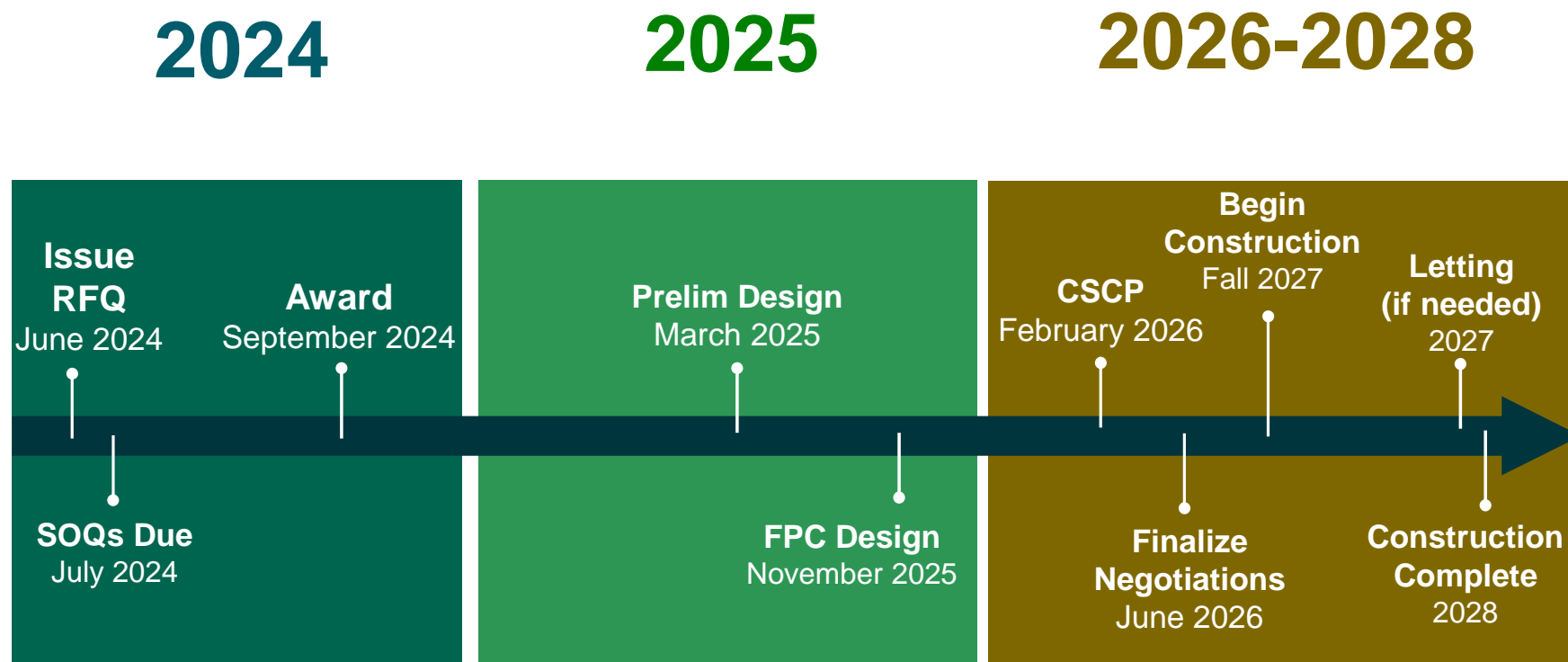
- Coordination with local municipalities for use of local roads to gain access to site

## Design Team Coordination

- Colliers Engineering and Design, Materials Testing Consultants, Spicer Group, Tetra Tech, Merjent Inc.



# Project Schedule



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**Anticipated Construction  
Pre-qualifications:**

13100 Fa (Bridges and  
Special Structures)

**Subclassification Required:**

**N5** (Railroad Track  
Construction)



**Disadvantage Business  
Enterprise (DBE) Goal:**

Preconstruction 0 percent  
Construction TBD



**Key Staff:**

Project Manager

Project Supervisor

Cost Estimator

**Support Staff:**

Environmental Compliance Manager  
(During Construction)

Civil Rights Manager



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