



**CHALLENGE:** Roundabout installation in high volume corridor while maintaining northbound traffic and access to area properties.

**SOLUTION:** Put safety first, keep businesses informed, and work as a team to complete the project ahead of schedule.

**OWNER:** Grand Traverse County Road Commission

**CONTRACT AMOUNT:** \$3,571,136.16

**ENGINEER:** OHM Advisors, Scott Fisher, P.E., 231-313-3101

**LOCATION:** Traverse City, MI

**ORIGINAL DATE:** 4/25/2022 - 9/30/2022

**VALUE ADDED ADJUSTED SCHEDULE**

**START:** 5/30/2022

**OPEN TO TRAFFIC:** 7/29/2022

**DATE COMPLETED:** 9/07/2022

**SELF-PERFORMED:** 69%

**PARTNERS:** Apple Fence Co, Give 'Em a Brake Safety, Bella Concrete, PK Contracting, Traverse Outdoor, Windemuller Electric, OHM Advisors

## BY THE NUMBERS

Drainage Structure: 22

Aggregate Base: 15,324 ton

HMA: 6,861 ton

Conduit: x10,461 ft.

Culvert: 1,959 ln. ft.

Curb & Gutter: 8,045 ln. ft.

Decorative Concrete: 2,903 sq. yds.

Concrete Sidewalks & Curb Ramps: 5,111 sq. ft.

Streetlights: 28.

Project Open to Traffic: 10 weeks ahead of schedule

**Roundabouts** reduce the number and severity of collisions in highly travelled intersections, and aid in the continual flow of traffic. According to the Federal Highway Administration and Insurance Institute for Highway Safety, roundabouts reduce fatal collisions by 90 percent, injury collisions by 75 percent, and overall collisions by 37 percent. Roundabouts also account for just eight conflict points, vs. 32 conflict points at a four-way signal.

Stemming from an East-West Corridor study and based on the increased safety roundabouts provide, the Grand Traverse County Road Commission decided to place a roundabout at the busy Cass Road and

River Road/Beitner Intersections.

Team Elmer's was the low bidder for the two roundabout reconstruction projects. The roadway reconstruction which included 15,324 ton of aggregate base; 6,861 ton of 3E3, 4E3, and 5E3 HMA asphalt pavement; 8,045 ln ft of curb & gutter; 2,903 sq yds of decorative concrete; culvert; conduit; pavement markings; topsoil; landscaping; and street lighting.

The Beitner/Keystone corridor is a major commuter connector for the region. The original time line and proposal was five months and for each roundabout to be built individually while maintaining traffic.

# TEAM ELMER'S PROJECT PROFILE | Keystone Roundabouts @ Cass Rd & River Rd



"It is an engineering masterpiece. We don't know how you managed to keep traffic flowing and still construct this road work. Amazing!"  
- Cindy Pleva-Weber

"Your team is really amazing. I watched them work hard every day. And the quality of your work is superior. Thank you!" - Agnes Jury

This company absolutely rocks every project I've seen them working on! From my neighbors challenging driveway to center road on Old Mission, they are quick, efficient and do awesome work!"

- Carol Howard

Team Elmer's was able to provide an alternate time line proposal; building both roundabouts simultaneously and condensing the construction schedule to save time. This meant constructing the road in half width increments while maintaining northbound traffic and local access.

Closing Cass Road to traffic, crews constructed the west side of the Keystone roundabout at Cass Road and the east side of the Keystone roundabout at River Road. Once those sections were complete, traffic was redirected onto the opposite side and the remaining construction continued. Completing the project in just nine weeks, Team Elmer's crews added value by compressing the construction time line on the mainline corridor.

It took a team effort to ensure safety and build the project. Multiple Team Elmer's crews and other companies worked together to create a visually appealing project.

The hard work and dedication of those working on the project resulted in the roundabout being open to vehicular traffic almost 10 weeks ahead of the original schedule. This early opening allowed bus traffic to plan for the first day of school and the fall semester, saving time and money for bus routing, easing congestion, and increasing overall safety.



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