

## Bridge Status

### Schedule

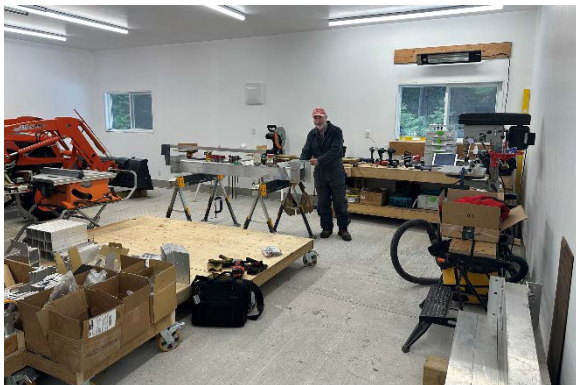
The replacement bridge will be installed in early November in the location of the former Bishop's Bridge. Parts have been fabricated by Tim Sykes and he is currently assembling the bridge on a trailer in his driveway. He will tow the bridge to site with his tractor, and then Tracy Lance will lift it into place using his excavator.

Once the bridge is in place, Doug Killey, Bruce Heinmiller and other volunteers will add fill to the adjacent ground to properly meet up with the bridge.

### Bridge Fabrication

Cutting and drilling the structural aluminum has been facilitated by specialized tooling, particularly a 14" chop saw with a blade specially-made to cut aluminum, aluminum-cutting blades for a table saw and another chop saw, and an array of annular cutters for drilling holes. Tim has a full range of other power equipment that was also used for the job. Most holes were made using metal templates to ensure that parts would mate properly, using either a drill press or hand drill. Some holes were match-drilled.

Wood for the deck was purchased from Pastway Planing in Combermere. To increase service lifetime, a more robust pressure treatment than available through stores was specified. (By using a higher pressure and incising the wood, the treatment is able to migrate deeper into the wood, and the resulting product is rated for ground contact.) This copper-based treatment is also bonded to the wood much better than older compounds, so it poses less environmental risk and it allows direct contact with aluminum, which would not be acceptable with older treatment methods.





## Footings

In August, Tracy Lance improved the access and placed rocks on the shoreline to prevent erosion. To do this, he had to lift the old bridge out of the way temporarily. Tim fabricated the forms and rebar. They are heavily reinforced so they will not crack in case of non-uniform support, e.g. a big root lifting up at one location. Doug Killey and Bruce Heinmiller prepared the ground and installed insulation under the forms and adjacent ground to prevent the ground under the footings from freezing. Doug organized a team of volunteers to perform the pour on October 2 and a group of cyclists also joined the team. The concrete truck drove to the bridge site but could not get close enough to pour directly into the forms so the team of volunteers transported the concrete using wheelbarrows.











D. Rhodes

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