

## Gruver Little Free Library

Repair Report 12-19-2023

Repair on this library began on Saturday December 15, 2023 and was completed on Tuesday December 19, 2023.

Repairs as directed:

- De-lamination of plywood on back side (North side) (see notes below)
- Rotted door frame (see notes below)
- Paint (Exterior latex paint)

Repairs not directed:

- Repaired the delaminated plywood on the north side by installing western red cedar wainscot on both ends and the back. Trimmed the top and caulked to prevent water running between the cedar and plywood. Filled all the fasteners. Applied primer and two coats of Ace brand Semi-gloss latex paint. This will hold up well for 5 to 7 years.
- Replaced the entire door that was rotted beyond repair. Constructed with western red cedar with half lap corners to add strength to the frame. Corners were glued with Titebond 3 waterproof wood glue. Installed new outdoor rated hinges and new door handle to replace the wood knob that was split and beyond repair. Used the existing Plexiglas using stainless steel screws. Removed and replaced the door catch that made the door difficult to open and replaced with a magnetic catch.
- Removed and replaced the only plaque on left side (west side) – replaced rusted screws with stainless steel screws. The original door had hand carved letters indicating that this library was sponsored by the Friends of the Library. Instead of trying to match that I fabricated a new western red cedar plaque and installed above the original plaque. There wasn't the usual aluminum plaque marking this with the Tiny Library organization and registration number. There was no indication that it had ever been mounted on the structure.
- Installed new mounting hardware to avoid screws in floor of library (see notes below)

NOTES:

1. The post was in good shape and very solid.
2. This library was built with a good grade of  $\frac{3}{4}$  plywood and aside from a bit of need for scraping in a few spots was in very good condition. All exterior surfaces painted with the Ace brand semi-gloss latex paint.
3. New mounting hardware was used to secure the library to the post support. This library was mounted on a 4" wide support; I added a 6" to give it better support. There are four exterior rated construction supports that are fastened to the post with exterior rated construction screws (not sheetrock screws). Stainless steel screws were used to attach the library to the metal angles so there is no risk of rust.
4. The door itself was terribly rotted and beyond repair. It appears attempts were made to try to seal the window with additional trim that was not painted. Part of the problem with the door was the letters that were carved into the door noting the sponsorship by the Friends of the Library. The cuts ran through the first layer of veneer and allowed water to rot the door. The door latch was so heavily corroded that it was difficult to pull the door open and the knob was split and never finished. The door style I selected was a full 13/16" thick cedar that is naturally rot resistant. I applied paint inside and out to seal the wood. The hinges now give full support to the door and will be good for the life of the structure.
5. The books were replaced in the library and it is ready for use.

All work described here was completed by Dan Breyfogle, Brey's on Seventh.



