



ANDERSON ENGINEERING AND SURVEYING, INC.
PROFESSIONAL ENGINEERS AND LAND SURVEYORS

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July 13, 2023

Chad Carpenter
Mile High Community Management
Oregon Water Wonderland
376 SW Bluff Drive, Suite 4
Bend, OR 97709

Critical Finding Notification
Bridge #20783, Oregon Water Wonderland – Wood Duck Court

On July 13, 2023 Anderson Engineering and Surveying, Inc performed routine bridge inspections on Deschutes County Local Agency Bridges under the Oregon Department of Transportation Bridge inspection Services Contract. During the inspection Bridge 20783 was found to have major structural deficiencies.

Several 6x12 timber deck planks were observed to be cracked and near failure, with 1 deck plank in a failed condition. The 2x12 running board are cracked, split, have sections missing, in poor condition, and are unable to distribute the load effectively. The area with the failed deck board has been previously coned off from traffic, but other areas of the deck are near failure. Some decay was observed in the failed deck board at the area where the running planks are lagged into the deck.

Bridge 20783 is the only access for several homes in the Oregon Water Wonderland Subdivision. It is recommended that a steel trench plate be placed over the damaged areas of the deck, and the bridge should be posted for **5 TONS**. This will allow local access to the homes that this bridge serves. A load restriction recommendation letter dated August 20, 2021 states that strengthening the timber deck only would allow the bridge to be posted at 33 tons for the SU6 and 35 tons for the SU7. A Oregon registered engineer should be hired to design a deck replacement, and the deck replaced as soon as possible to allow raising the load postings to the loads stated in the load restriction recommendation letter allowing more access to the homes.

If you have any questions about this structure, please feel free to call.

John Harms
Bridge Inspector C0079

Attachment: Inspection Photographs
Inspection Report
Load Restriction Recommendation Letter.

Cc: Richard King – ODOT
Michael Goff – ODOT
Torina Wilson – Deschutes County Road Department