White Oak Nature Conservation Restoration

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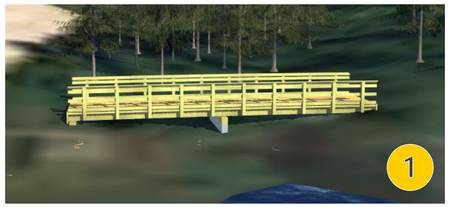
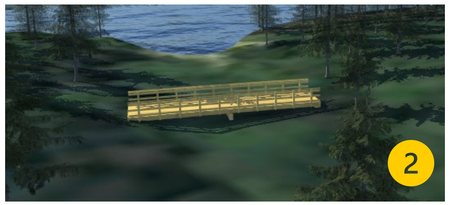
Location and Purpose

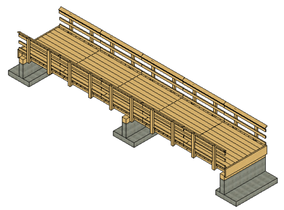
The White Oak Conservation Center stands as a beacon of natural beauty and recreational opportunities. Our project aims to enhance this setting by revitalizing key features such as the 20-acre lake, boat ramp, pavilions, playgrounds, walking trails, and parking areas. Through these improvements, we strive to create a more inviting environment for both residents and visitors alike, ensuring that the area remains a cherished destination for generations to come.

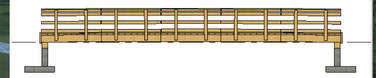


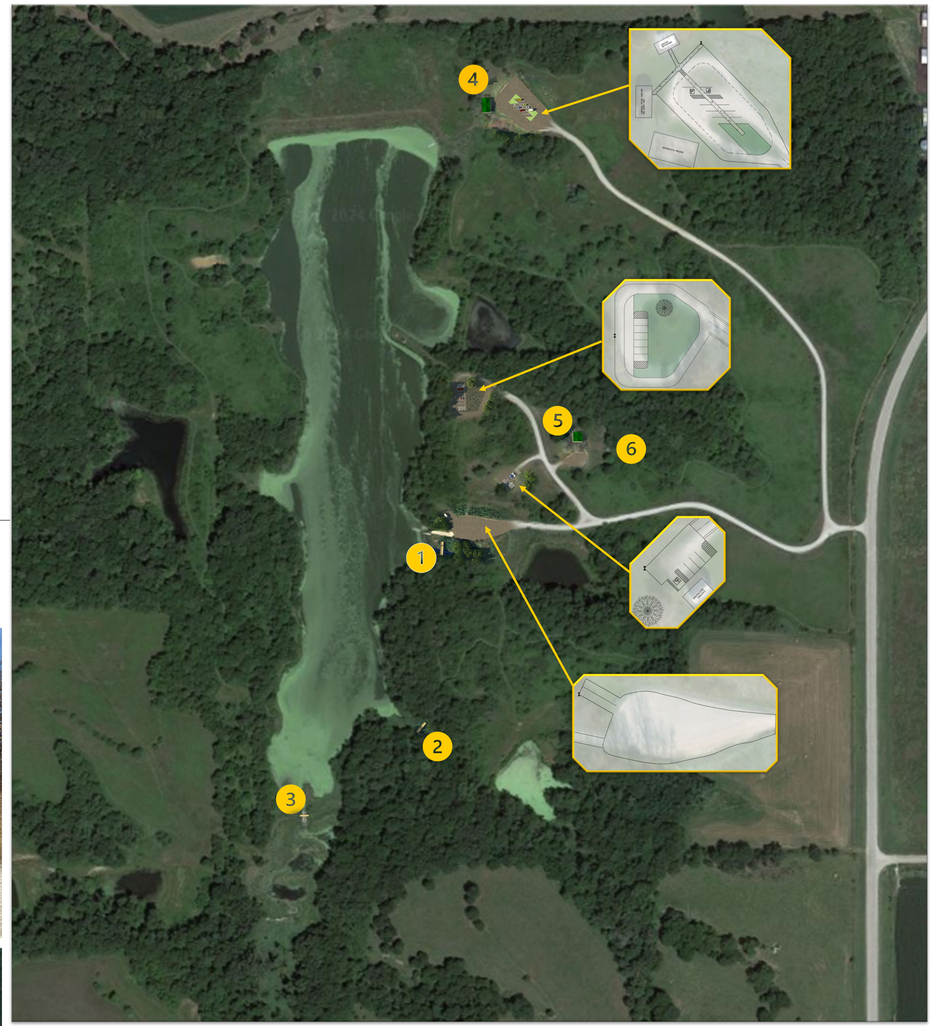


Pedestrian Bridges

- 8’-9” wide bridge deck
- Designed for a 10,000 lb vehicle
- Concrete abutments for increased durability
- Replaceable running planks for easy maintenance







Boat Ramp

- Addressed accumulated sediment at both the base and top of the existing boat ramp, necessitating removal to prevent further buildup, while simultaneously enhancing functionality, safety, and user experience
- Accessibility improvements to cater to a diverse range of users, including trailer parking in adjacent parking lot.
- 6" Concrete Slab designed for smaller boats to be launched

Trail System

- ABA compliant alternatives surfaced with 4" crushed stone.
- Expansion of existing trail network.
- Drainage analysis and solutions for high use areas.

Roadways/Parking Lots

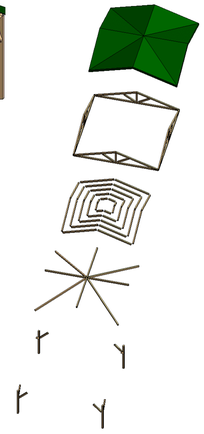
- Future-Ready Design: Adaptable design fosters inclusivity, ensuring accessibility for all.
- Scenic Ease: Streamlines layouts that maximizes the enjoyment of the sites views and activities.
- Seamless Integration: Blending with the existing ground to reduce environmental impact, while enhancing accessibility and drainage throughout the site.

Scan for Roadway Videos

Road 1 | Road 2 | Road 3

Cardinal Pavilion (45’ x 25’)

Robin Pavilion (25’ x 25’)

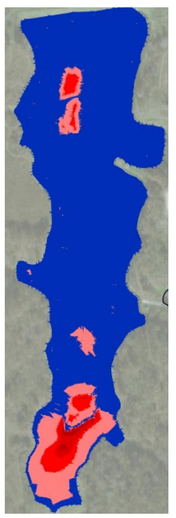


Pavilions

- Wooden frame with metal deck roof
- Gable and valley roof design with trusses for improved aesthetics
- Original sizes maintained to allow use of existing concrete slabs

Lake Evaluation

- The flow map (left) shows how the satellite ponds interact with the main lake.
- About 91% of the total inflow originates from the south subbasin.
- This inflow carries sediment that accumulates over time.
- The proposed sediment removal, shown in red, (right) is expected to increase habitat life and recreational usability.



Playgrounds

- Alternatives to existing playgrounds
- Permanent outdoor games that match aesthetics