

Joint Campus Area Committee Informational Presentation

September 2, 2021

Advanced Planning Study

Lakeshore Path Limnology Bypass Bridge, Advanced Planning
DFD Project Number 20E1A

Ingenuity, Integrity,
and Intelligence.

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Agenda

- Summary of Process
- Alternatives Considered
- Stakeholder Meetings
- Final Alternative

Summary of Process

- Kickoff Meeting
- Stakeholder Meetings
 - DNR
 - Limnology
 - Outdoor UW
 - Lakeshore Nature Preserve
 - Madison Bikes
- Study Team Meetings
- Final Alternative Selection

Alternatives Considered

- Three Preliminary Alternatives prepared for review
 - Mix of adjacent to building, offset from building, kinks, radii
 - Materials
 - Concrete, timber, steel superstructure materials
 - Concrete, timber, asphalt deck materials
 - Concrete construction selected
 - Constructability, Access, Permitability

Stakeholder Meetings

- Key Points
 - Constructability, offset from the building
 - Clearance height, headspace below
 - Minimize lake impacts; structure in waterway and shade
 - Snow removal
 - Limnology pier
 - Bridge width, curb; 16' with 1' curbs
- Additional Alternatives prepared based on revisions requested
 - Adjustments to the offset distance
 - Width
 - Headspace

Future Considerations

- Back Path Design
 - Limnology Pier
 - Construction timing and staging
 - Access coordination
 - Permitting
-
- Schedule

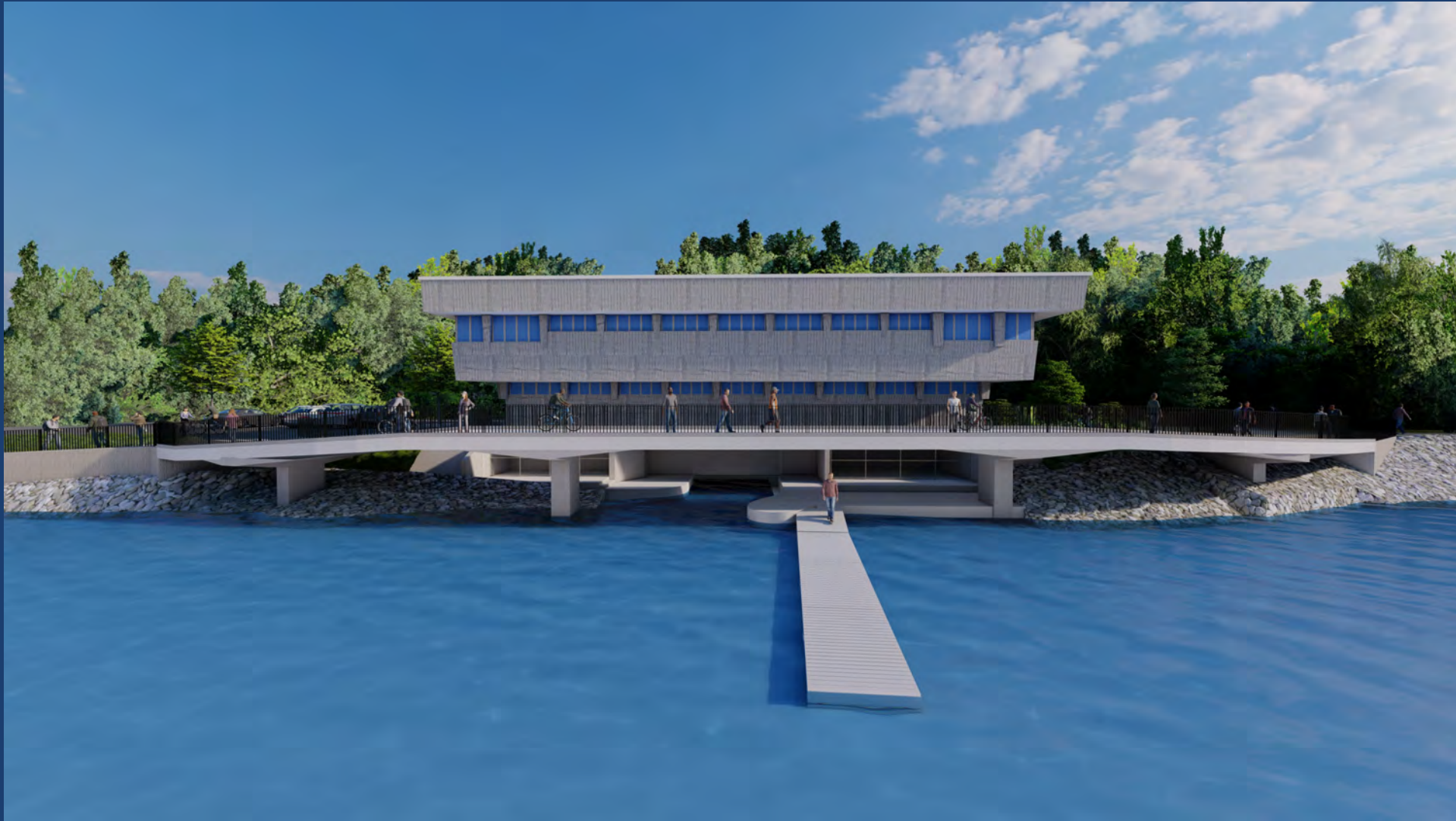
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Final Alternative

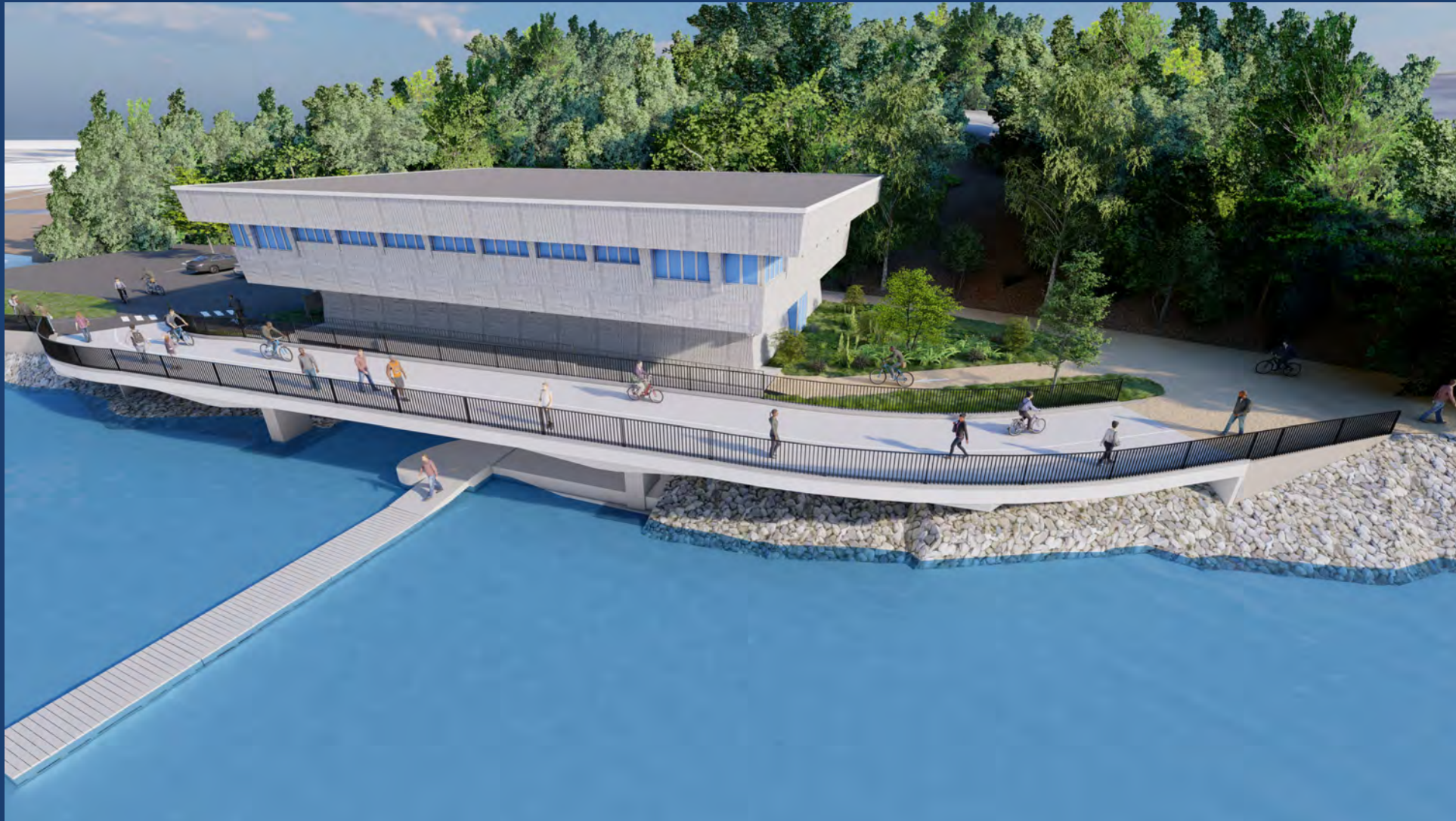
	18-Foot Bridge
Description	
Superstructure	Concrete Slab, separated from building
	Five Spans
	16' clear width
Substructure	Concrete Sill Abutments
	Single-Shaft Integral Piers
Bridge Span Lengths	28', 40', 60', 40', 18'
Bridge Overall Length	188 feet
Opinion of Probable Construction Cost	
Structure	\$1,164,000
Site Work	\$731,006
Construction Total	\$1,894,606
Contingency (20%)	\$378,922
Design A/E Fees (12%)	\$227,353
DFD (4%)	\$75,785
Other Fees (2%)*	\$37,894
2025 Construction (6% per year)**	\$407,880
2025 Total Estimated Construction Cost	\$3,022,450
*Fees for soil borings, permitting, etc.	
**Based on 2021 bidding climate (6% through 2023, 4% for each subsequent year)	

Final Alternative



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Final Alternative



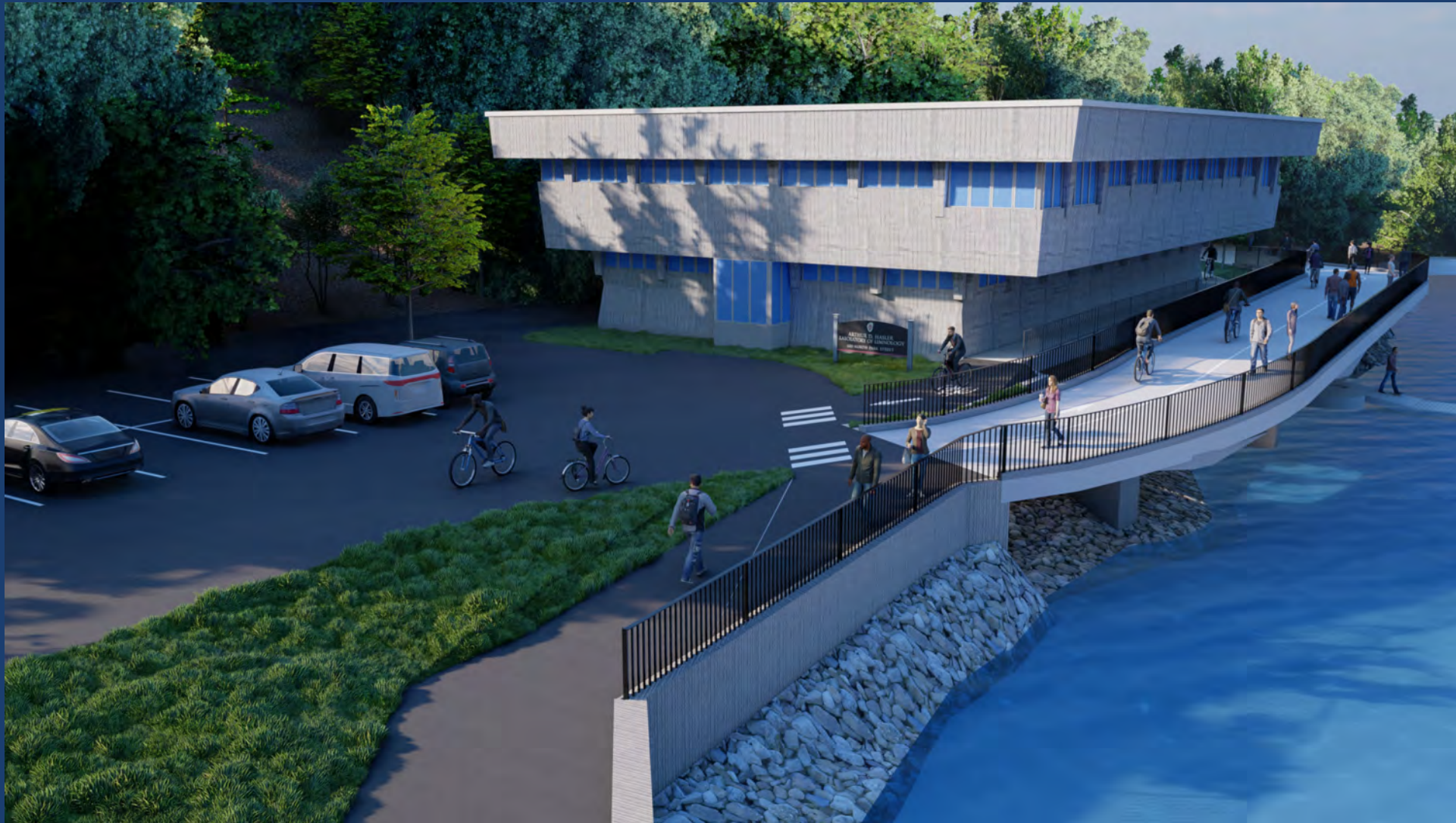
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Final Alternative



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