



# Cobban Bridge

November 12, 2019  
Chippewa Falls, WI



# Presentation Overview

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# Work History



Date	Work Type	Work Performed
<b>2017</b>	<b>closure</b>	<b>Bridge closed on 8-2-17</b>
2005	maintenance	Repaired lower chord eyebars SW & NW truss
1999	maintenance	Added extra running boards
1995	rehabilitation	New abutments, pier, stringers, deck, riprap, and paint
1993	maintenance	New bearing pads and steel repairs
1989	maintenance	East abutment repaired
1986	maintenance	Stringers, floorbeams, deck and abutment repairs
1940's	rehabilitation	Pier collar installed
1917-1919	construction	Moved and re-erected at current site on the Chippewa River
1908	construction	Erected on Yellow River, Town of Anson

# Condition of Bridge



Date	Suff. Rating	Evaluation	Deck	Superstructure	Substructure
<b>Aug-17</b>	2.5	<b>bridge closed</b>	Satisfactory	Serious	Good
Oct-16	2.5	Structurally deficient	Satisfactory	Serious	Good
Jun-16	31.1	Structurally deficient	Satisfactory	Poor	Good
Dec-15	31.1	Structurally deficient	Satisfactory	Poor	Good
Sep-14	31.1	Structurally deficient	Satisfactory	Poor	Good
Oct-12	31.1	Structurally deficient	Satisfactory	Poor	Good
Oct-10	31.1	Structurally deficient	Satisfactory	Poor	Good
Oct-08	31.1	Structurally deficient	Good	Poor	Good
Oct-06	31.1	Structurally deficient	Good	Poor	Good
Nov-04	31.1	Structurally deficient	Good	Poor	Good
Nov-02	31.2	Not deficient	Good	Poor	Good
Nov-01	47.5	Not deficient	Good	Fair	Good
Dec-00	47.5	Not deficient	Good	Fair	Good
Dec-98	45.5	Not deficient	Good	Fair	Good
Feb-97	47.6	Not deficient	Good	Satisfactory	Very Good
Jan-95	4.4	Structurally deficient	Fair	Poor	Critical
Nov-92	4.4	Structurally deficient	Fair	Poor	Critical
Dec-90	4.4	Structurally deficient	Fair	Poor	Critical

# Bridge Conditions of Other Nearby River Crossings



## State Highway 64 Bridge in Cornell (B-09-087)

- Constructed in 1971
- Current sufficiency rating: 76.4
- Deck geometry meets current standards – 44' clear roadway width
- 3,500 vehicles per day
- Deck & Superstructure Rating: 6 (SATISFACTORY)
- Substructure Rating: 7 (GOOD)



## Bridge Conditions of Other Nearby River Crossings (Cont'd)



### County Highway Y Bridge in Jim Falls (B-09-123)

- Constructed in 1986
- Current sufficiency rating: 89.8
- Deck geometry meets current standards – 30' clear roadway width
- Over 1,100 vehicles per day with high number of trucks
- Deck rating: 5 (FAIR)
- Substructure & Superstructure Rating: 6 (SATISFACTORY)
- 2019 deck repairs



# Recent Calendar of Events



Date	Item - Notes
10/8/2019	Signed final design contract with AECOM for \$425,946.75. (100% County funds)
11/8/2018	SMA signed for State Bridge Aid 80/20 funding of construction
	Construction project cost: \$5,950,105 (\$4,720,084 State funds, \$1,230,021 County funds)
8/14/2018	Chippewa County Board adopts resolution 47-18 authorizing the highway department to proceed with the final design and construction of the bridge to replace the current Cobban Bridge at the current location
5/24/2018	<b>Funding approved</b> , State Bridge Aid 80/20 funding of construction
8/8/2017	Chippewa County Board adopts resolution 37-17 authorizing the highway department to proceed with design and eventual construction of the replacement of the Cobban Bridge at the current site and endorses location alternative 3.
8/2/2017	Bridge permanently closed for safety reasons.

# Cost Estimate History



Date	Description	Costs
9/8/2014	Public Information Meeting #1 - No alternative selected yet (cost estimates are bridge only in 2014 dollars)	2014 Alt.#3 = \$3,500,000 2014 Alt.#1 = \$7,000,000
1/6/2016	Public Information Meeting #3 - No alternative selected yet but 1b modified is preferred (cost estimates now include removal and engineering in 2015 dollars)	2015 Alt.#3 = \$4,700,000 2015 Alt.#1b mod = \$7,200,000
3/8/2016	County Board - Resolution 08-16 approved endorsing location alternative 1b modified	2015 Alt.#3 = \$4,700,000 2015 Alt.#1b mod = \$7,200,000
7/11/2017	County Board - compared 2017 with 2025 cost estimates	2017 Alt.#3 = \$7,300,000 2017 Alt.#1b mod = \$11,000,000 2025 Alt.#3 = \$8,600,000 2025 Alt.#1b mod = \$12,900,000
7/17/2017	Public Information Meeting #5 - Alternative 1b modified was endorsed in County Board resolution 08-16 but alternative 3 is now recommended due to high costs of 1b modified	2025 Alt.#3 = \$8,600,000 2025 Alt.#1b mod = \$12,900,000
8/8/2017	County Board - presented a history of the project, compared costs for alternatives and Resolution 37-17 was approved endorsing location alternative 3 (cost estimates using 2021 and 2025 dollars)	2021 Alt.#3 = \$8,000,000 2021 Alt.#1b mod = \$12,000,000 2025 Alt.#3 = \$8,600,000 2025 Alt.#1b mod = \$12,900,000
6/27/2018	Highway Committee - discussed funding scenarios for construction and design	2021 Alt.#3 = \$6,232,000 2025 Alt.#3 = \$6,701,000
8/14/2018	County Board - Resolution 47-18 approved reaffirming resolution 37-17, directing highway department to proceed with final design and construction, and resolving that funding will be part of 2020 planned borrowing	2021 Alt.#3 construction = \$5,682,000 <u>Final design = \$550,000</u> Total = \$6,232,000

# Future Funding Strategy



CIP Year	Bonding #1 (Road & Bridge)	Bonding #2 (Cobban)	Bonding #3 (Road & Bridge)	Yearly Total
2019	\$1,000,000			\$1,000,000
2020	\$1,000,000			\$1,000,000
2021		\$200,000	\$1,500,000	\$1,700,000
2022		\$1,800,000	\$1,200,000	\$3,000,000
2023			\$1,300,000	\$1,300,000
2024				\$0
<b>Bonding Total</b>	<b>\$2,000,000</b>	<b>\$2,000,000</b>	<b>\$4,000,000</b>	<b>\$8,000,000</b>

# Continuation of Project vs. Abandoning Project



<b>Anticipated Total Costs for Cobban Bridge Project</b>			
<b>Category</b>	<b>Category Item</b>	<b>Item Cost</b>	<b>Total</b>
Design Services			
	County 20% Share of Preliminary Design & State Oversight	\$ 135,000	
	100% County Share of Final Design & State Oversight	\$ 451,000	
	Design Sub-Total		\$ 586,000
Bridge Construction (Includes Removal)			
	County 20% Share of Construction (based on SMA)	\$ 1,230,021	
	Historical Mitigation	\$ 15,000	
	Construction Sub-Total		\$ 1,245,021
	<b>Grand Total</b>		<b>\$ 1,831,021</b>

# Continuation of Project vs. Abandoning Project (Cont'd)



<b>Estimated Costs to Abandon Cobban Bridge Project &amp; Remove Existing Bridge</b>			
<b>Category</b>	<b>Category Item</b>	<b>Item Cost</b>	<b>Total</b>
<b>Preliminary Design Services</b>			
	County 20% Share of Project Paid to Date (9/25/2019)	\$ 109,864	
	80% Share of Design Contract to be Paid Back to State	\$ 412,897	
	Payback of State Oversight Costs (estimated)	\$ 25,000	
	Preliminary Design Sub-Total		\$ 547,761
<b>Bridge Removal</b>			
	Engineering & Construction	\$ 1,000,000	
	Bridge Removal Sub-Total		\$ 1,000,000
	<b>Grand Total</b>		<b>\$ 1,547,761</b>

# Continuation of Project vs. Abandoning Project (Cont'd)



<b>Comparison of Costs</b>	
<b>Item</b>	<b>Total</b>
New Bridge Cost	\$ 1,831,021
- Abandon Project Cost	\$ 1,547,761
<b>Additional Cost to Construct a New Bridge</b>	<b>\$ 283,260</b>

# General Discussion



- Questions?