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## PROJECT MEMORANDUM

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Project:	Leland Dam Pedestrian Bridge Repair	Bid Results from
Client:	Leelanau County	RE: 9/27/24 opening
Recorded By:	Patrick J. Machin	Project No: 24132
		Date: 10/02/2024

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To the Leland Dam Authority Board:

Machin Engineering has interviewed each responding bidder and have summarized each bid amount in the enclosed spreadsheet table. The respondent bidders: Easling Construction, Awrey Corporation, Walton Contracting, and Fisher Contracting.

Prior to completing the final design documents board members requested us to review the use of composite products and walnut. It was understood the purpose of walnut was to use something other than the Ipe and from a sustainable North American source. For composites, this firm is not a proponent of this material. Composites have shown they are consistently unpredictable in lifespan, surfaces could be slippery to the public, and have problems with appearance, sagging, warping, cupping, etc. More so that the natural wood species provided in the bids. We are not familiar with Walnut being a species used in exterior applications and from research, do not seem to meet the durability and low maintenance qualities we are seeking for this project. In summary, two options have been provided that would provide for a durable, low maintenance solution using Ipe or Thermally Modified Ash. Ipe being a South American species and Ash a North American species. The life expectancy for these materials have been reported to be 30 years or more.

Treated wood was provided as an option in the bid documents but does not meet the durability and longevity requirements we were looking for in the design. General life expectancy for this material is between 10 and 15 years.

There are two options we are recommending the board select a contractor from: Ipe material or Thermally Modified Ash. The respondent low bidder for the base bid Ipe is Easling Construction at a cost of \$108,546.00. The respondent low bidder for the Alternative #1 Thermally Modified Ash is Fisher at a cost of \$124,736.77. The engineer's estimate for the base bid including contingencies was \$112,680.00.



**Leelanau County**  
**Leland Dam Pedestrian Bridge Repair**  
**Bid Results**

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PEDESTRIAN BRIDGE REPAIR Base BID (No. 24132)				Engineer's Estimate		Easling Construction		Awrey Corp		Walton Contracting		Fisher Contracting	
Item No.	Item Description	Unit	EST. Qty.	Unit Cost	Cost	Unit Cost	Cost	Unit Cost	Cost	Unit Cost	Cost	Unit Cost	Cost
1	Demolition and Disposal	LS	1	\$21,600.00	\$21,600.00	\$17,653.00	\$17,653.00	\$20,000.00	\$20,000.00	\$33,300.00	\$33,300.00	\$35,098.32	\$35,098.32
2	Decking, lpe	LS	1	\$45,600.00	\$45,600.00	\$24,616.00	\$24,616.00	\$60,000.00	\$60,000.00	\$45,262.00	\$45,262.00	\$38,910.07	\$38,910.07
3	Railing & Guard	LS	1	\$32,160.00	\$32,160.00	\$56,191.00	\$56,191.00	\$19,200.00	\$19,200.00	\$17,750.00	\$17,750.00	\$38,712.64	\$38,712.64
4	Rail Posts, lpe	LS	1	\$13,320.00	\$13,320.00	\$10,086.00	\$10,086.00	\$13,250.00	\$13,250.00	\$19,761.00	\$19,761.00	\$10,024.70	\$10,024.70
Alt#1	Thermally Modified Ash	LS	1			\$3,004.00	\$3,004.00	\$18,550.00	\$18,550.00			\$1,991.04	\$1,991.04
Alt#2	Treated SYP	LS	1			-\$9,881.00	-\$9,881.00	-\$43,450.00	-\$43,450.00	-\$28,130.00	-\$28,130.00	-\$8,037.01	-\$8,037.01
<b>BASE BID IPE</b>				<b>TOTAL:</b>	<b>\$112,680.00</b>	<b>TOTAL:</b>	<b>\$108,546.00</b>	<b>TOTAL:</b>	<b>\$112,450.00</b>	<b>TOTAL:</b>	<b>\$116,073.00</b>	<b>TOTAL:</b>	<b>\$122,745.73</b>
<b>ALTERNATIVE #1 THERMALLY MODIFIED ASH</b>				<b>TOTAL:</b>		<sup>1</sup> <b>TOTAL:</b>	<b>\$111,550.00</b>	<b>TOTAL:</b>	<b>\$131,000.00</b>	<sup>2</sup> <b>TOTAL:</b>	<b>not sourced</b>	<b>TOTAL:</b>	<b>\$124,736.77</b>
<b>ALTERNATIVE #1 TREATED SYP</b>				<b>TOTAL:</b>		<b>TOTAL:</b>	<b>\$98,665.00</b>	<b>TOTAL:</b>	<b>\$69,000.00</b>	<b>TOTAL:</b>	<b>\$87,943.00</b>	<b>TOTAL:</b>	<b>\$114,708.72</b>

NOTES

- 1 Does not include all thermally modified ash lumber. Posts are of lpe
- 2 Does not include thermally modified ash lumber. Noted as unable to source.