

## COMPARISON OF CURRENT MENASHA BOAT TRANSFER OPTIONS

	OPTION 1: BRIDGE CRANE WITHIN LOCK	OPTIONS 2: KMI ON ROADWAY EAST OF LOCK	OPTION 3: BRIDGE CRANE OVER DAM
	PROS and CONS		
<b>Existing lock remains as-is</b>	Add concrete wall within lock. Outside of lock: add new code-compliant stairs, one ADA lift	Yes, portion of fence to relocate	Yes
<b>Move multiple boats at one time</b>	Up to 4 boats with carriage	One boat per KMI	Up to 4 boats with carriage
<b>Transfer people in boat</b>	No	No	No
<b>Method for people to travel</b>	Walk up stairs or ride ADA lift	Walk across land or FRNSA purchase golf carts	Walk across on sidewalks
<b>Water level / dredging</b>	Verify water depth with carriage	Minimal anticipated	Large quantity of initial & maintenance dredging required
<b>River channel route</b>	Same as current	Same as current	New route, buoys needed
<b>Boat Carriage</b>	Design so fish cannot be transferred within frame	Not used	Design so fish cannot be transferred within frame
<b>Boat support</b>	Rails with inflatable bunks	KMI has inflatable bunks	Rails with inflatable bunks
<b>Trail impact</b>	Same as current	Add gates and relocate parking	Add gates
<b>Portaging for kayaks</b>	Remains the same	Remains the same	Remains the same
<b>Property acquisition</b>	None	Purchase private property south of street & easement from Menasha	None
<b>Archaeological Investigation</b>	Not likely	Yes	Yes
<b>Construction concerns</b>	Cutting thru lock floor for crane foundation installation - vibration	Existing soils quality will determine quantity of fill req'd	New power (120 and 460 3-phase) to dam for bridge crane and site lighting
	Installation of concrete wall within existing lock for barrier	Large quantity of concrete pavement required due to wheel loads on KMI	Potential leakage through dam due to construction disturbance
	Cofferdams and dewatering required for helical pier & foundation installations	Sheet piling and dewatering required for helical pier & boat launch slab installations	Sheet piling and dewatering required for helical pier & boat launch slab installations
			Access for construction equipment / trucks
<b>Operations shelter/office consideration</b>	Use existing facilities	Construct small building for personnel shelter/office	Construct small building for personnel shelter/office
<b>Personnel Training</b>	Same crane as Rapide Croche minimizes additional training	Training and certification required (by vendor)	Same crane as Rapide Croche minimizes additional training
<b>Equipment storage thru winter</b>	Cranes remain on steel frame	Need to confirm: on-site storage	Cranes remain on steel frame
<b>Monthly equipment maintenance required to be completed by vendor</b>	YES - bridge crane	NO	YES - bridge crane
<b>Access for equipment maintenance by vendor</b>	Telescoping lift should be able to reach crane from sides of lock	Access from road	Scissors lift to run on existing trail, concrete pad added for crane access location
<b>FUTURE when lock re-opens</b>	Remove concrete wall within lock	Sell KMI machines	Relocate bridge cranes and steel to Rapide Croche for second lane
	Relocate bridge cranes and steel to Rapide Croche for second lane	Use as public boat launches, boat storage area	Remove piers on river side due to interference with current river channel
	Potentially remove floating piers & new concrete stairs/ADA lift	Modify or remove portion of pier within river channel on north end	