

Team C2A

Emmber Lane Bridge River Debris Problem/New Public River Access

JBL ENGINEERING TEAM MEMBERS

Brian Black
Linda Rawlins
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Overview/Scope

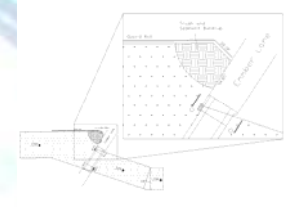
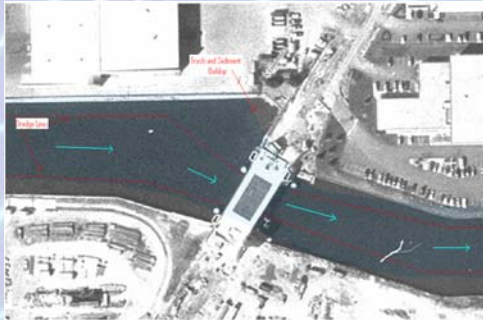
Due to the river hydraulics, there is a large trash and sediment buildup at the northwest corner of the bridge. The corner has been cleaned before but accumulates trash and sediment buildup within a months period of time.

THE SIGMA GROUP

Kenneth E. Kaszubowski, P.E. Principal
Natalie Behne, P.E. Project Engineer

Criteria To Meet

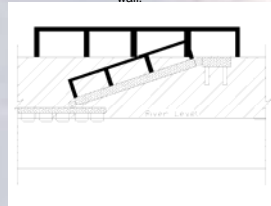
- A permanent solution to eliminate the accumulation of debris in the area.
- Incorporate some type of public access for non-motorized boats (canoes and kayaks)
- A Plan allowing an easily maintained surface area as well as restoration of fish habitat in the river.



Design 1

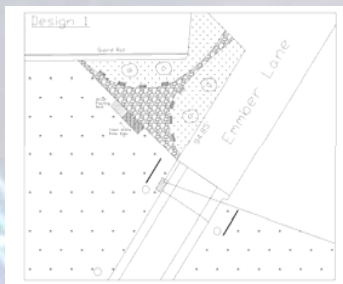


Ramp is designed to adjust to the changing water levels of the river. The rollers will allow the floating dock to move up and down freely while stabilized horizontally against the river wall.



Features

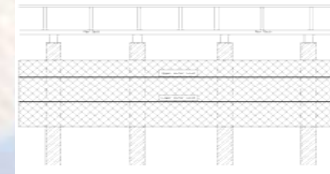
- Large Floating Launching Dock with Hinged access ramp (needed for changing water levels)
- Large area of Green Space and Park Area Added to Site



Design 2

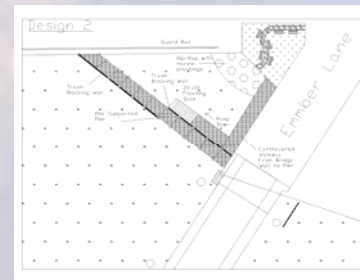


The trash screen must be able to accommodate for both the lower and upper levels of the river throughout the year. Therefore it will run above the high level mark about 2.5 feet and beneath the water under the low level of the river of 3 feet.



Features

- Trash Wall
- Pile Supported Viewing Walkway
- Rip-rap with Marine Plantings
- Cantilevered Access Walkway
- Large Floating Protected Launching Dock with Hinged access ramp (needed for changing water levels)



Design 3



Features

- Trash Wall
- Pile Supported Viewing Deck/Walkway
- Marine Plantings
- Cantilevered Access to Walkway
- Large Floating Launching Dock with Hinged access ramp.
- Aerator

