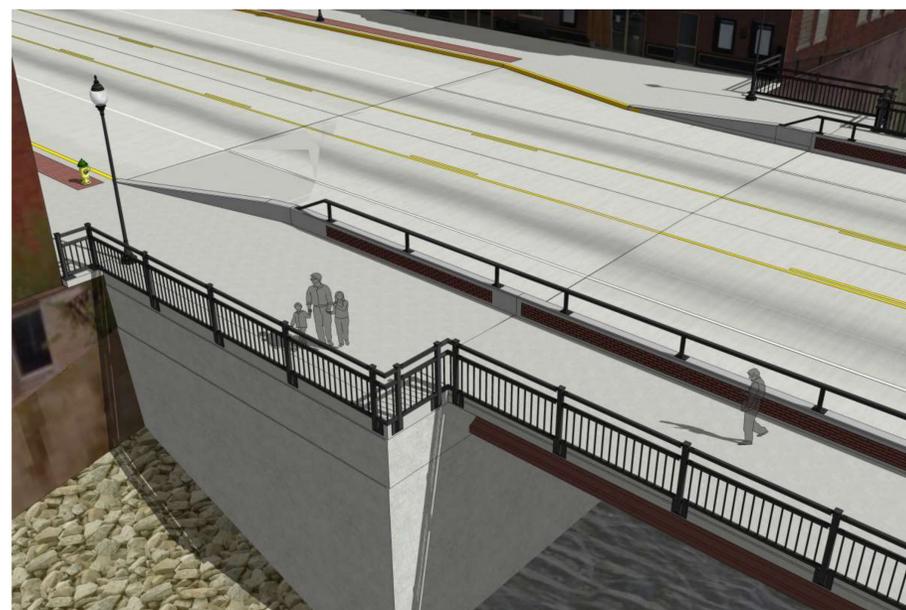




Bridge Structure Details

The new Iowa 3 Bremer Avenue bridge over the Cedar River will be 349 feet long and 74 feet wide with a 54-foot wide roadway, a 10-foot wide trail along the north, and an 8-foot wide sidewalk along the south. The east abutment will wrap the existing bridge abutment and floodwall foundations in order to avoid disturbing the existing riverbank support system. Two new "tee" type piers will open the view underneath the bridge, and the fascia beams are proposed to be painted to complement the brick buildings overlooking the river.



Bremer Avenue Bridge Aesthetics: Basic Bridge Structure & Features

These conceptual images illustrate project features that are being considered for further development and possible inclusion in the project plans. The exact features to be incorporated into the project have not been determined. Final selections must meet the schedule, cost, and constructability criteria established for the project. The finished project may be different than shown in conceptual views.

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"Picket"



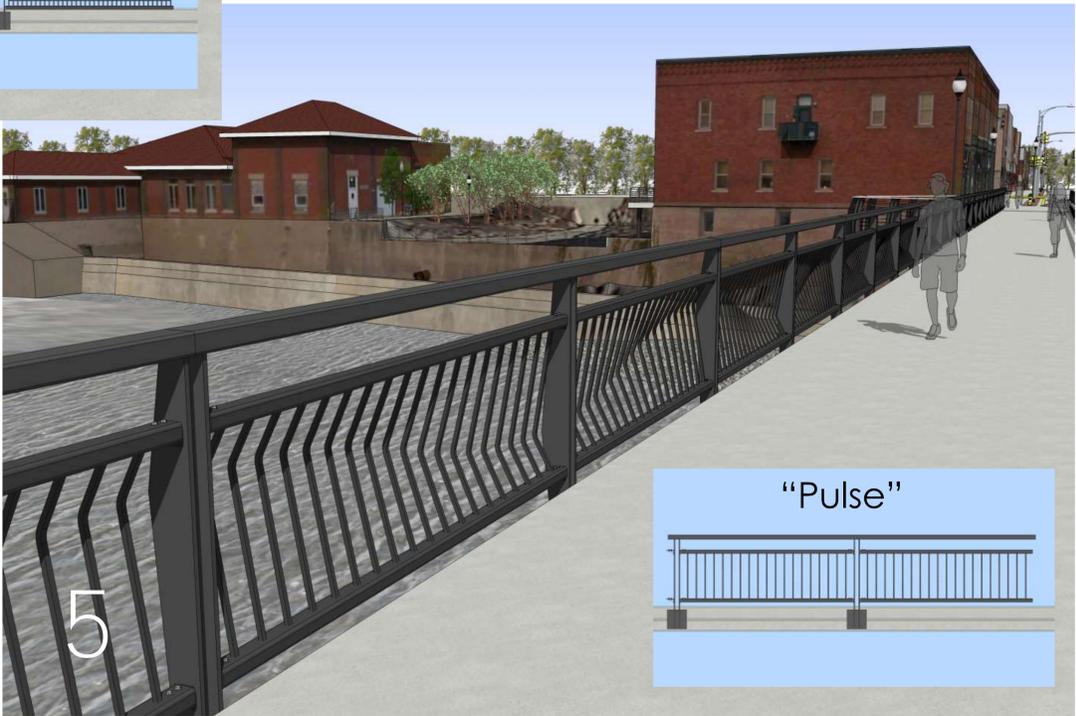
"Meander"



"Flow"



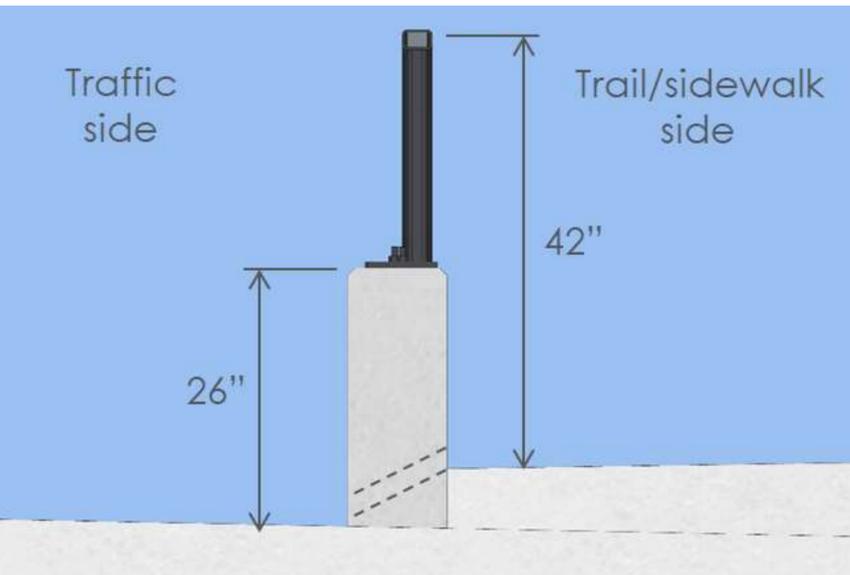
"Ripple"



"Pulse"

Pedestrian Railing Options

There are 5 railing designs under consideration for use on the project. Railings are 48 inches tall, have openings less than 6 inches wide in the lower portion, and are powder coated galvanized steel. The railings are proposed to be side-mounted to the bridge deck for the best appearance and for ease of trail and sidewalk maintenance.



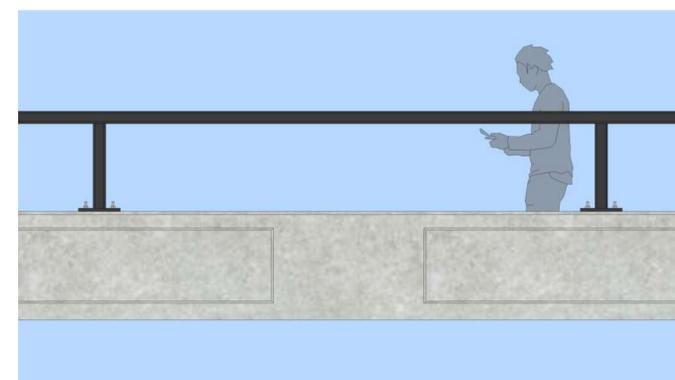
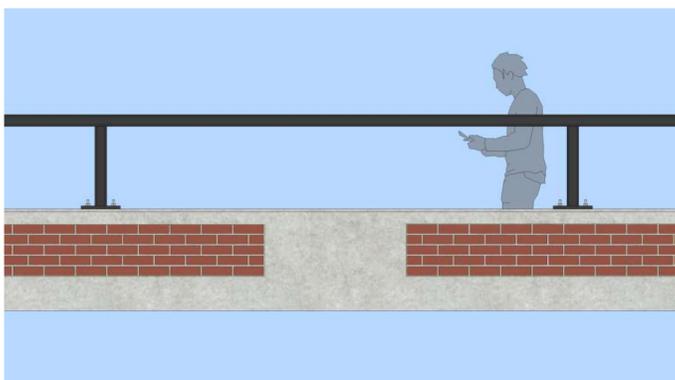
Bridge Traffic Barrier Details and Enhancement Options

The traffic barrier that will be used to separate vehicles from pedestrians and bicyclists using the trail and sidewalk will be comprised of a 12-inch wide, 26-inch tall concrete barrier with a steel tube railing mounted to the top. The tube railing will be galvanized and powder coated to match the outside railings, and will be 42 inches tall on the pedestrian side.

Aesthetic treatments can be incorporated into the concrete portion of the barriers. Two treatment options are shown: integral thin veneer brick facing, and concrete rustication.

The integral thin veneer brick facing is made with real brick materials placed within the concrete forms prior to loading them with liquid concrete. After the concrete hardens, the forms are removed revealing a true brick surface with permanent color and texture.

The concrete rustication treatment is created by placing thin panels of faced plywood or narrow strips of wood or plastic inside the concrete forms prior to loading them with liquid concrete. These panels or strips must be shallow in order not to create deep impressions in the traffic face of the barrier that might cause a vehicle or snowplow to snag on the corners.



Bremer Avenue Bridge Aesthetics: Traffic Barrier Details & Treatments

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Pedestrian Overlooks

The bridge will have 4 pedestrian overlooks, located above each end of the 2 supporting piers. The railing used at the overlook is an opportunity for a different railing design, particularly one that maximizes views of the river and dam from the bridge. A stainless steel cable railing could be used for this purpose. Additionally, the structural support underneath the overlook can include a column extending up and through the deck that could support a future City of Waverly vertical shading structure, artwork, or other structure. In the initial installation, these columns could serve as small tables for the convenience of pedestrians.



Riverfront Trail Connection

The City of Waverly is planning development of the riverfront area just to the southwest of the Bremer Avenue bridge, and is planning to connect a trail to the replacement bridge. The new trail will require separate structural support for the grading required to make this connection. The current assumption is that a retaining wall will be constructed immediately adjacent to the west bridge abutment and just outside of the Cedar River floodway to support the trail.



Bremer Avenue Bridge Aesthetics: Overlooks and SW Trail Connection

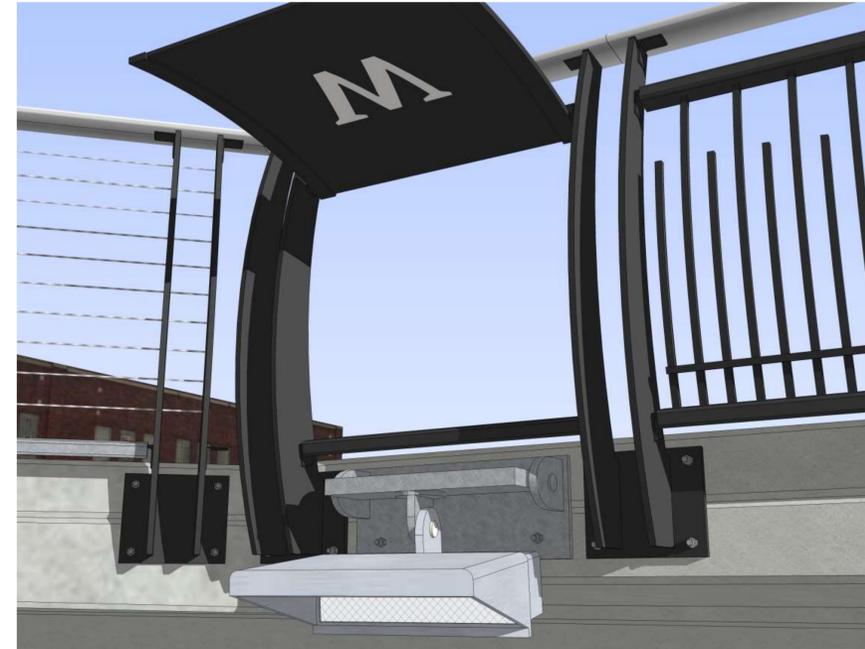
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City of Waverly Lighting Details

The City of Waverly is planning to supply ornamental light poles and fixtures on the new bridge to match existing fixtures along Bremer Avenue. These will be mounted onto deck extensions at several locations on both sides of the bridge. In addition, the City has asked the Iowa DOT to accommodate bridge-mounted floodlight fixtures for illumination of the dam. These will be mounted to the deck edge along the north side of the bridge, and will be accessed through lockable panels within the pedestrian railing system for ease of maintenance.



Bremer Avenue Bridge Aesthetics: City of Waverly Lighting Details

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