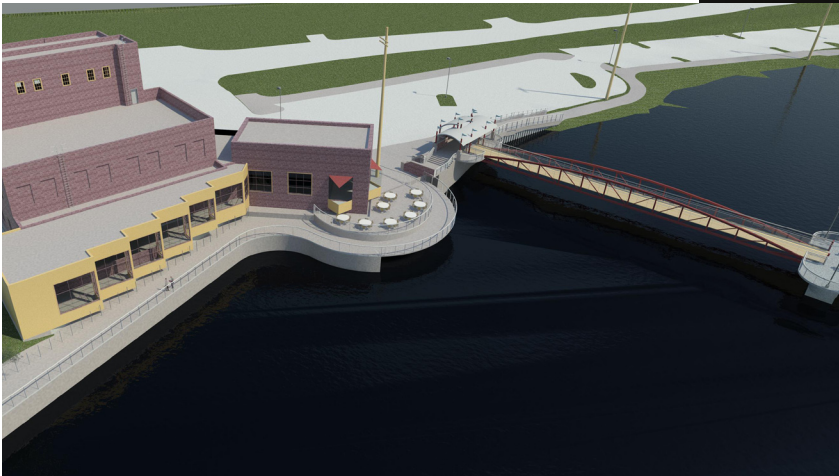


Coralville Flood Protection, Coralville, Iowa

During the flood of 2008 Coralville Lake had water flowing over its emergency spillway at a record breaking crest. Downstream, the Iowa River continued to rise, progressively inundating portions of Coralville and Iowa City. Smaller local tributaries added to the problem, particularly in Coralville along Clear Creek. The washout of the embankment holding the tracks of the Cedar Rapids and Iowa City Railroad allowed floodwaters to inundate Coralville's central business district. The flood protection measures the city had in place protected only to the 100 year flood level and were rendered ineffective as the flood crested above the 500 year flood elevation.



Shortly after floodwaters receded, the City of Coralville asked Shoemaker & Haaland to design and manage a new flood control construction project to protect the city from flooding of the Iowa River to an elevation of 1 foot above the 2008 high water elevation. Shoemaker & Haaland proposed a varied system of flood control measures. At the north end of the project we proposed a removable floodwall that is erected only when flood waters threaten

and leaves an obstruction-less view when the barrier is removed. A permanent concrete floodwall is proposed immediately east of the Iowa River Power restaurant. Attached to this permanent wall would be a boardwalk which connects a bicycle trail to the existing trail crossing the Iowa River. A permanent concrete flood wall and earthen levee will continue south along the top of the existing river bank to the mouth of Clear Creek. Beginning at the mouth of Clear Creek the existing railroad embankment will be raised and improved to make it suitable for flood control. The design calls for the railroad bridge over Clear Creek to be lengthened to widen the Clear Creek channel and improve its hydraulic efficiency. Finally, a flood control gate is proposed at the railroad overpass at Rocky Shore Drive. The design also includes a storm water pump station to control interior drainage. The total budgetary cost for these improvements is approximately \$9.5 million. We are currently creating construction documents and the project is scheduled to begin construction in 2010.