

Beal Slough Bio Phase II

Lower Platte South Natural Resources District, Lincoln, Nebraska

The Beal Slough project was a channel stabilization and restoration along 3,500 feet of deeply incised, urban stream located on park property in the City of Lincoln, Nebraska. Channel erosion was threatening the Nebraska State Highway 2 bridge, a Burlington Northern Railroad Bridge, a Lincoln Electric System Company high-tension power distribution tower, and the pedestrian/bicycling trail network in several locations, including two pedestrian bridges.



Intuition & Logic was responsible for the geomorphic analysis and design of extensive channel restoration, including reconfiguration and channel relocation to protect the distribution tower for Lincoln Electric Systems Company, and 1,800 square feet of heavy block retaining wall to protect a pedestrian trail bridge. The retaining wall design is unique in planform in that we used a nautilus shape that gradually draws the flow in upstream of the bridge and provides an energy drop through sudden expansion downstream. Construction was completed in summer of 2005.

