

Bridgeton Stormwater Master Plan Amendment

City of Bridgeton, Missouri



As an amendment to the City's existing Stormwater Master Plan, this project necessitated a full geomorphological analysis of all major surface streams in the City of Bridgeton, totaling more than 35,000 feet of channel of the Cowmire Creek, and Midland Creek Watersheds. The analysis and report addressed both flood and erosion management by combining the existing

hydraulic modeling data with this geomorphic analysis. This combination offers insight into how the stream would respond to direct channel interventions or changes elsewhere in the watershed. Most of the streams included in the study were in the late stages of post urbanization channel incision or channel widening.

Intuition & Logic recommended system-wide stabilization of the incising channels, coupled with focused stabilization measures. The final recommendations include rebuilding the floodplain in the lower portion while the land is still undeveloped, along with improving sediment transport through culverts and under bridges.

