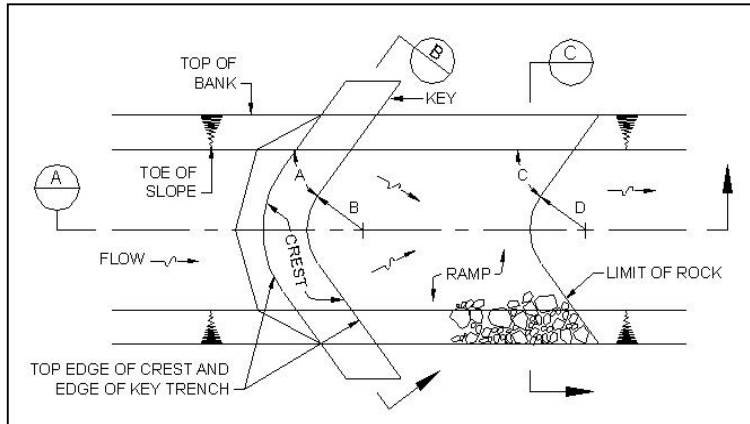


**Urban Stormwater Standards, APWA Section 5600**

Mid American Regional Council, Kansas City, KS

Throughout the US, communities are reevaluating their approach to urban stormwater. The escalating capital and operating costs of conventional stormwater systems have driven this interest as much as community desires for protected natural resources and increased regulatory scrutiny. The bi-state Kansas City metro area has recently completed a major revision to their engineering design standards. The new standards address both urban water quality and quantity. An urban BMP manual addressing both structural and non-structural methods of stormwater treatment is coupled to rigorous design standards.



Working with city and county stormwater engineers, representing over a dozen jurisdictions, Intuition & Logic developed an entirely new section of the standards addressing natural stream systems. While oriented for the civil designer, the standards are thoroughly grounded in geomorphology and account for the dynamic equilibrium that is the defining characteristic of natural streams. Now, for the first time regional design standards specifically focus on the protection of natural streams. Design standards address sediment transport continuity, energy dissipation, grade stabilization, stream setbacks and pipeline, bridge and culvert crossings.



In collaboration with teammates Black & Veatch and Tetra Tech, Inc., Intuition & Logic is teaching the new standards to approximately 300 stormwater engineers throughout the region.