



**MSD DETENTION ANALYSIS CHECKLIST**

Project Name \_\_\_\_\_

Date \_\_\_\_\_

MSD WM/Sub. No. \_\_\_\_\_

The purpose of this checklist is to facilitate the review process. This checklist gives the minimum requirements needed for MSD’s review. All items shall be checked as included or marked N/A. The omission of required items may be cause for rejection of the submittal without review.

**Required Items**

- \_\_\_\_\_ Table of Contents
- \_\_\_\_\_ Explanation of Analysis with Assumptions
- \_\_\_\_\_ Analysis of Downstream Capacity Limitations
- \_\_\_\_\_ Composite Drainage Area Map(s) – Pre-development
- \_\_\_\_\_ Composite Drainage Area Map(s) – Post-development
- \_\_\_\_\_ Time of Concentration (Tc) Supporting Calculations – Pre-development
- \_\_\_\_\_ Time of Concentration (Tc) Supporting Calculations – Post-development
- \_\_\_\_\_ Runoff Coefficient or Curve Number Calculations & Map – Pre-development
- \_\_\_\_\_ Runoff Coefficient or Curve Number Calculations & Map – Post-development
- \_\_\_\_\_ Hydrographs (2, 10, & 100-year peak flows) – Pre-development
- \_\_\_\_\_ Hydrographs (2, 10, & 100-year peak flows) – Mitigated - Post-development
- \_\_\_\_\_ Hydrographs (2, 10, & 100-year peak flows) – Bypassing or Unmitigated – Post-development
- \_\_\_\_\_ Basin Volume Data (Elevation/Storage)
- \_\_\_\_\_ Basin Grading Plan
- \_\_\_\_\_ Basin Outlet Structure Data and Construction Plans
- \_\_\_\_\_ Basin Overflow Component (Positive Through Drainage Outlet)
- \_\_\_\_\_ Additional 100-year Analysis Check of Overflow Function (Upstream Developed Condition)
- \_\_\_\_\_ Basin Routing Data (Stage, Storage, Peak Elevation, Peak Inflow and Outflow)
- \_\_\_\_\_ Velocity Dissipation Calculation (Property Line Point Discharge)
- \_\_\_\_\_ Complete Summary of Drainage Analysis
- \_\_\_\_\_ Digital Data (CD)

The undersigned acknowledges by signature that these documents meet or exceed the design standards of the Louisville and Jefferson County Metropolitan Sewer District and that they were prepared under my supervision. I, the undersigned, further acknowledge that to the best of my knowledge and belief, the products resulting from these documents will function as intended.

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Date