Drainage Report Checklist

Project Name:

Comments:

The purpose of this checklist is to assist the applicant's Engineer with developing a drainage report that supports the intent of the Weld County Code using commonly accepted engineering practices and methodologies. Is the project in the **MS4**? Yes If yes, the following requirements in blue apply. See Chapter 8, Article IX of the Weld County Code. **Construction Drawings Report Content** ☐ Weld County Case Number ☐ Stamped by PE □ Certificate of Compliance signed and stamped by a ☐ Engineering scale & north arrow Colorado Licensed PE ☐ Property lines, rights-of-way, and easements ☐ 1' Contours & elevations (existing & proposed) □ Description/Scope of Work ☐ Pre- and post-development drainage basins ☐ Location (County Roads, S-T-R) ☐ Arrows depicting flow direction □ Nearby water features and ownership ☐ Time of concentration critical path ☐ Total acres vs. developed acres ☐ Drainage design points ☐ Hydrological soil types/maps ☐ Improvements labeled □ FEMA Flood Zones ☐ Permanent control measure and associated drainage □ Urbanizing or non-urbanizing features labeled 'No Build/No Storage', include ☐ Methodologies used for report & analysis design volume (full spectrum is not accepted) ☐ Cross sections for open channels, profiles for pipes ☐ Base Design Standard used for permanent control ☐ Elevations for inverts, flow lines, top of grates, measure design in the MS4 orifice(s), etc. □ Discussion of offsite drainage routing ☐ Pipe specs (size, material, length, slope) ☐ Conclusion statement indicating that the design will ☐ Outlet and spillway details adequately protect public health, safety, and general welfare and have no adverse impacts on public Maintenance Plan rights-of-way or offsite properties ☐ Frequency of onsite inspections ☐ Repairs, if needed **Hydrology and Hydraulic Analysis** ☐ Design Storm / Rainfall Information ☐ Cleaning of sediment and debris ☐ Vegetation maintenance (NOAA Atlas or Local Data) □ Release Rate calculations ☐ Manufacturer maintenance specifications, if applicable ☐ Post construction site imperviousness ☐ Hydrologic calculations (historic & developed basins) Other Required Documents (If Applicable) ☐ Hydraulic calculations for proposed drainage ☐ Variance Request and documentation—explain improvements (swales, culverts, riprap, pond, outlet, hardship, applicable code section, and proposed spillway, WQCV outlet, etc.) mitigation. Variances will not be granted for the Base □ Detention/WQCV calculations Design Standard requirement in the MS4.

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