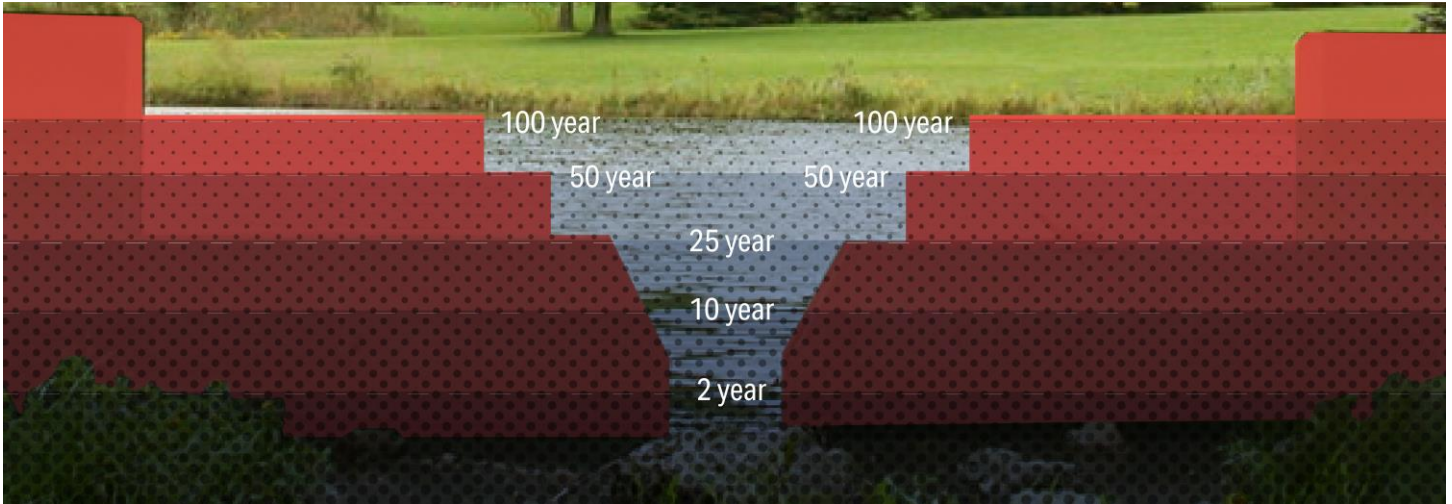




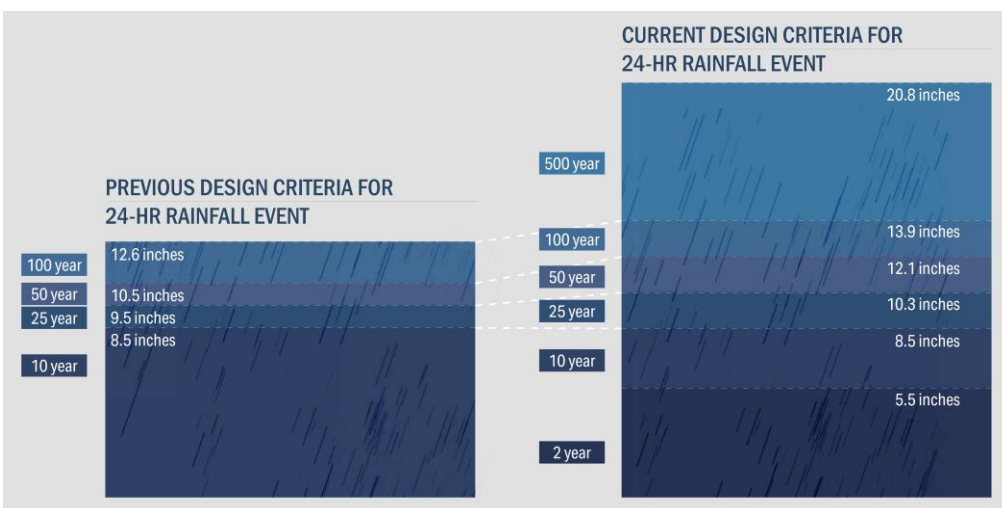
**CITY OF BATON ROUGE | PARISH OF EAST BATON ROUGE
DEPARTMENT OF DEVELOPMENT | FLOODPLAIN MANGEMENT
HYDROLOGY & DETENTION**

Under the *EBR Stormwater Master Plan* initiative, the design storm rainfall amounts and hydrologic design methods and requirements were updated and improved, to ensure new developments do not experience, or increase, current and future flood risk. New developments are required to design for the 2-, 10-, 25-, 50-, and 100-year design storm events, and ensure that post-development runoff rates do not exceed the pre-development runoff rates, at all outflows, for the design storm events. For specific requirements, refer to Section 15.13 of the UDC Chapter 15.



Detention ponds and outfall structures are to be designed for staged detention for the design storm events. Detention ponds are also required to have a designated outflow location for events in excess of the 100-year storm, and shall maintain a sheet-flow condition. The interior sub-surface conveyance systems for new developments are to be designed for the 10-year storm. Drainage systems cannot be designed to be more than 25% submerged in the static condition.

The Department has created a *Stormwater and Drainage Design Information* document (found here: www.brla.gov/DocumentCenter/View/16932/) which establishes hydrologic and hydraulic design criteria for new developments in the Parish. This includes discharge calculation methods, rainfall amounts for the design storm events, minimum Time of Concentration (TOC) and Runoff Curves for different development types, and other pertinent drainage design policy.



The newest tools and data were utilized to determine the current rainfall design depths. The depths are estimates for 2085, and also factor in climate change.

Rainfall amounts will be evaluated and updated on a regular frequency to include the most up-to-date data, and ensure flood risks are minimized for the Parish.