

# Pin Oak Village Stormwater Management Pond Improvements

<p><b>Background</b></p>	<p>The Pin Oak Village Stormwater Management (SWM) Pond is located south of the intersection between Elmcrest Lane and Eldbridge Lane in the City of Bowie. The facility was originally designed and constructed as an extended detention facility in the mid-1990's to provide stormwater management for the surrounding residential development and does not provide water quality volume to the current SWM regulations. There has been an accumulation of silt and detritus within the pond and overgrowth of phragmites within the existing wetlands.</p> <p>The City of Bowie is required to comply with the National Pollution Discharge Elimination System (NPDES) permit for small Municipal Separate Storm Sewer Systems (MS4s). This MS4 permit, effective in 2017, mandates permittees to restore 20% of existing impervious area that is not already treated with water quality best management practices by 2025. By 2022, the City must develop an implementation schedule to show how the 20% requirement will be achieved by 2025. Since 2014, the City has contracted with several engineering consulting companies to assess and prioritize the projects for the impervious area restoration to maximize water quality and impervious acre credit for the City's municipal separate storm sewer system (MS4) permit. A few stream and pond restoration projects have been identified to meet this objective, which include the Pin Oak Village Stormwater Management Pond Improvements project.</p>
<p><b>Project Scope</b></p>	<p>The proposed work includes repair and retrofit of the existing pond and convert the facility into an extended detention wet pond that will maximize pollutant removal efficiencies. The existing riser structure will be modified to provide a permanent wet pool while improving the facility hydraulics. Additional modifications include excavating forebays for the facility inflows, installing micro pools to maximize water quality storage, providing a five-foot-wide safety bench around the permanent pool with variable width wetland benches and berms to provide diverse habitat and vegetative cover, and installing riprap inflow protection at the facility inlets.</p>
<p><b>Project Manager</b></p>	<p>Name: Kui Lin          Phone: 240-544-5689          Email: kui.lin@kci.com</p>
<p><b>Total Project Cost</b></p>	<p>Design Cost: \$88,609          Estimated Construction Cost: \$700,000</p>
<p><b>Design Consultant</b></p>	<p>BayLand Consultants &amp; Designers, Inc.</p>
<p><b>Construction Contractor</b></p>	<p>TBD</p>
<p><b>Anticipated Construction Date</b></p>	<p>Spring 2023</p>

**Images /  
Attachments**



Last updated: 5/16/2022