

Item Summary:

The purpose of this agenda item is for the Council to consider actions regarding the Rollingwood Park drainage concerns. This item was previously presented to the Council on May 15, 2024. During the meeting, Council requested that KFA provide additional information related to the contributing drainage areas for the watershed versus the park and present to the Parks Commission on June 11, 2024 with a follow-up presentation reporting to Council.

The total drainage area to the Pleasant Cove culvert, which is at the downstream limit of the park, is approximately 54 acres. Of these 54 acres, 0.6 acres drains from the parking lot to the existing detention pond at Nixon and Gentry, and 8 acres drain from the area around the Western Hills Athletic Club. The 25-year peak flow at the Pleasant Cove culvert was calculated to be approximately 250 to 300 cubic feet per second (cfs), and for the area draining to the detention pond at approximately 5 cfs. This amount represents about 2% of the total flow to Pleasant Cove. Therefore, it is KFA's opinion that any modifications to the existing detention pond will not provide any significant regional benefit for flood reduction on Nixon Drive or within the creek.

The Infrastructure Improvement Plan (IIP 2020) identified Nixon Drive as a flooding problem. The proposed solution, referred to as Project F, included the installation of a storm drain and inlet system along Nixon and Gentry Drive. Additionally, downstream mitigation is likely required to complete the improvements. The conceptual cost range for this project is \$2M-\$3M. Alternatively, regional detention located within the municipal park could be a solution; however, this is anticipated to significantly alter the current recreational areas available within the park. The conceptual cost range for this project is likely to exceed \$500k.