



Drainage Improvement Projects for the City of Baker

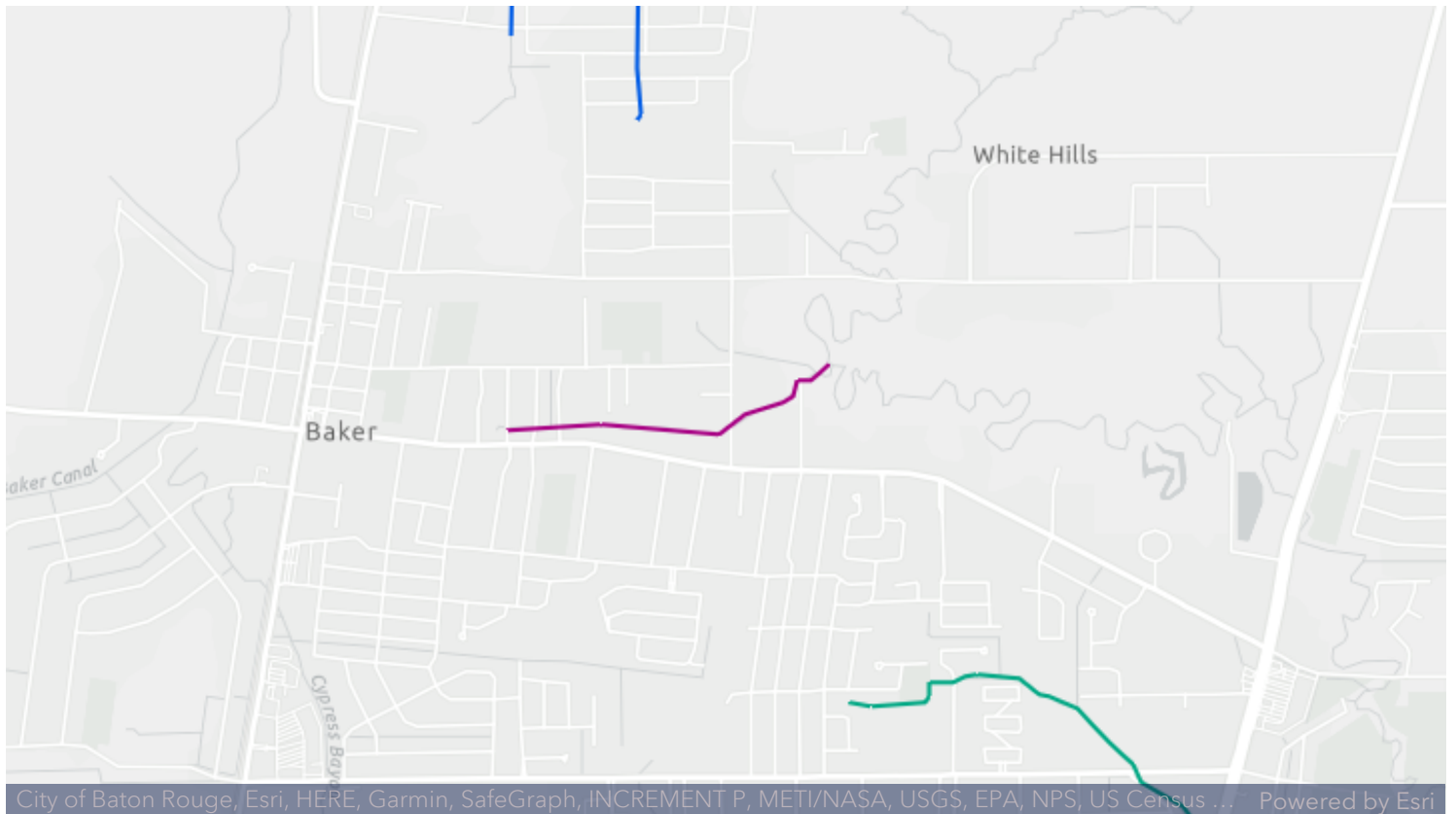
Presented by C. H. Fenstermaker & Associates, L.L.C.



The City of Baker is located in East Baton Rouge Parish. Much of south Louisiana has battled flooding-related issues in recent years, and the City of Baker has not been immune as this area has seen an increase in both frequency and intensity of storm events. Baker's flooding is due to the junction of the City's canals with the Comite River and the Amite River. It is imperative that the City protect both its citizens and its infrastructure while preparing for future growth. Fenstermaker was

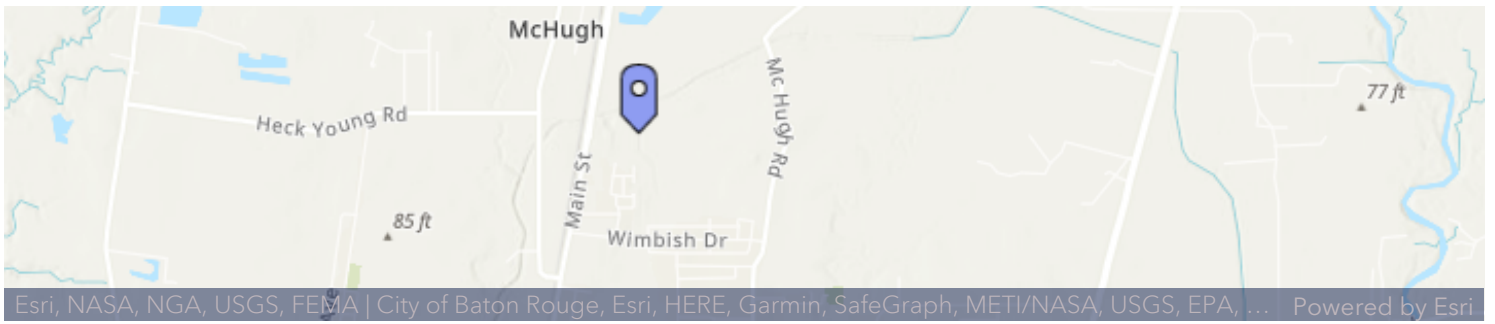
contracted to perform engineering services for three drainage improvement projects: North Canal, Bozeman Creek, and Brushy Bayou. These projects will be funded with FEMA's Hazard Mitigation Grant Program (HGMP) to improve flow characteristics and capacity.

Merging this understanding of the interplay between features within a drainage system and the pattern of strengthening storms along with a plan for continued growth and development across the City illustrates the need for a comprehensive approach to stormwater management designed to meet both current and future needs.



Baker Drainage Projects





North Canal is 1.1 acres of drainage land that runs parallel to Hwy 19.



The creek consists of approximately two miles of a natural earthen channel at the western reach of the city's boundary and continues southeast one mile outside of the City limits.



Brushy Bayou Canal is one mile of channel running parallel to Groom Rd. About half of the city's surface area drains to the Brushy Bayou Canal in some way.



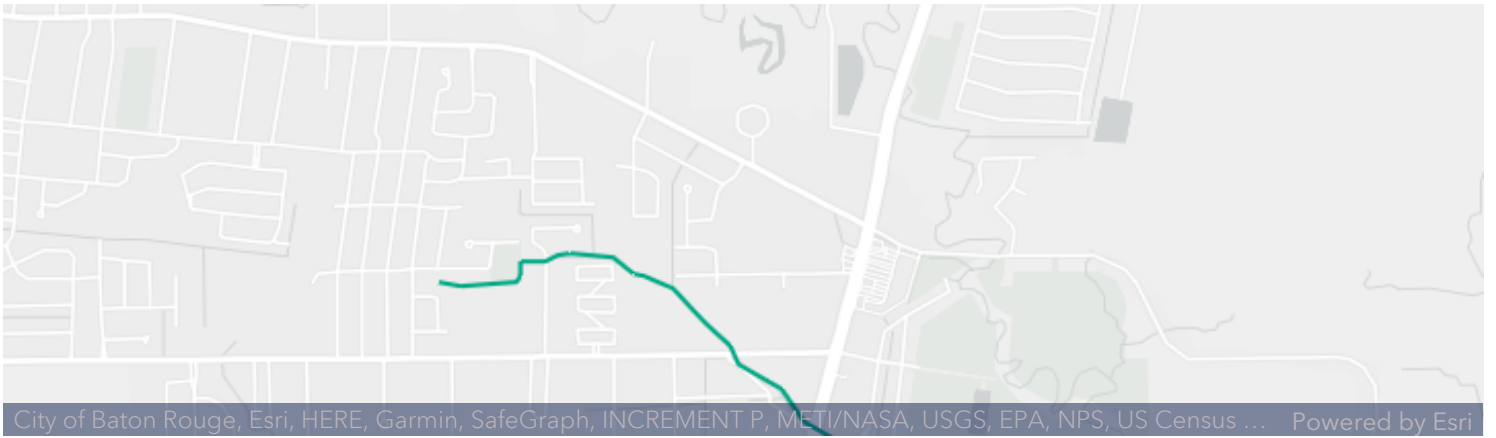
NORTH CANAL

The goal of this project is to improve how much and how fast water can flow through the canal to prevent flooding the surrounding areas.



- The survey work is completed.
- Existing hydrologic and hydraulic model is developed.
- Storm scenarios are being run to see how the area is affected by different types of rainfall.





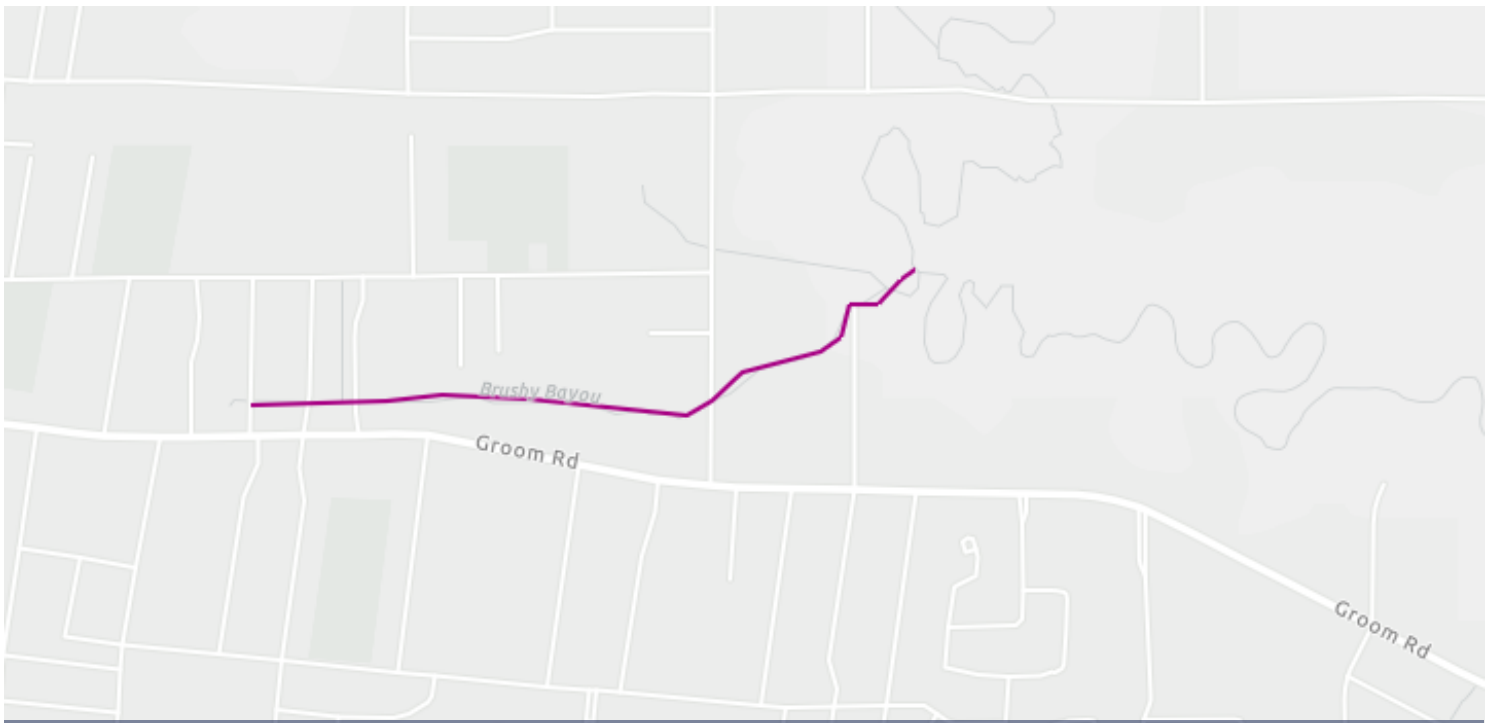
BOZEMAN CREEK

The goal of this project is to improve how much water can flow through the coulee and how fast it goes to prevent flooding the surrounding areas. Areas affected by Bozeman Creek have experienced flooding 3-4 feet deep into homes.



BOZEMAN CREEK

Surveying will most likely begin in July, which will be followed by hydrologic and hydraulic modeling.



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BRUSHY BAYOU

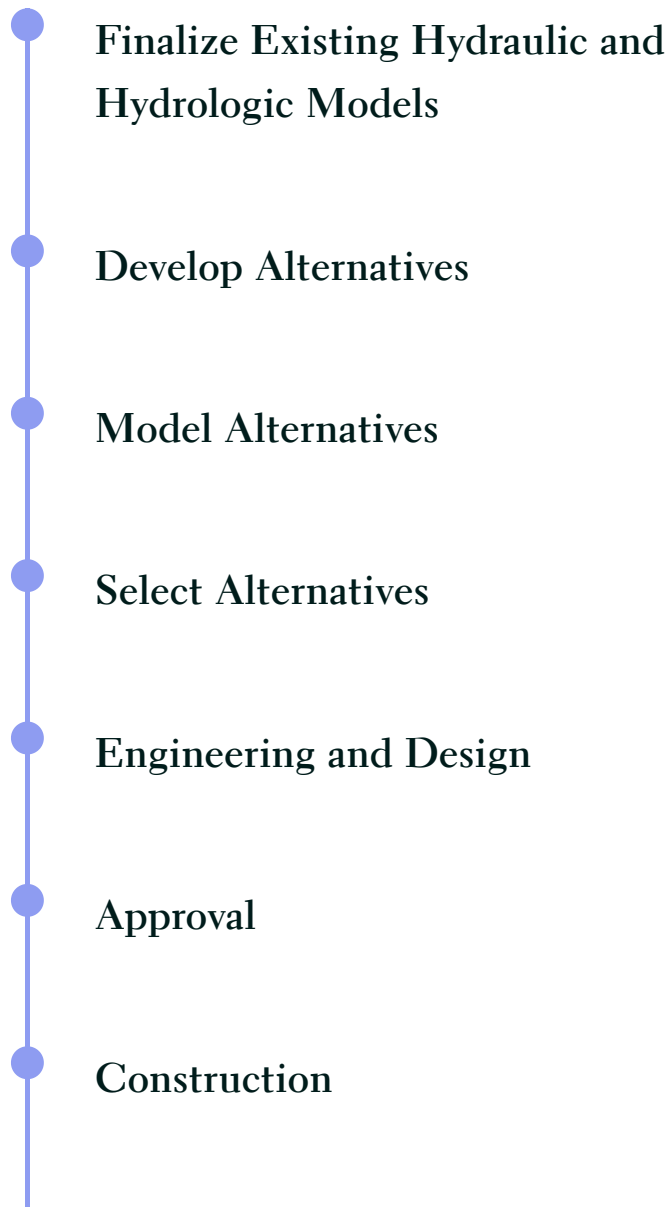
The goal of this project is to prevent local flooding from high intensity storms. The project area will be designed to mend and enhance the floodplain's current state. Roughly 50% of the August 2016 flooding in Baker was due to the canal's inability to carry out water.



BRUSHY BAYOU

- When Groom Road receives a high intensity rain event, water doesn't drain fast enough into Brushy Bayou making it nearly impossible to utilize the road.
- Flooding blocks passage to four schools, a fire station, a police/court annex, and a municipal center.
- The Brushy Bayou project is in its beginning stages of development.

NEXT STEPS:



Continue checking back! This website will be updated as progress is made.