

Community Development Block Grant - Mitigation Application



Texas General Land Office
Community Development and Revitalization

Texas General Land Office, P.O. Box 12873, Austin, Texas 78711-2873
1-844-893-8937 or 512-475-5000, cdr@glo.texas.gov

FLOOD AND DRAINAGE IMPROVEMENTS

PROJECT TITLE

ORANGE COUNTY

APPLICANT NAME

ORANGE
COUNTY

SETRPC
COG/Regional Planning Commission

Application for funding through:

HURRICANE HARVEY STATEWIDE COMPETITION

Project Description:

During Hurricane Harvey and other recent storm events, flooding of evacuation routes and arterial roads prevented the safe evacuation of residents. Many high-water rescues have been required as roads have become inundated with water during periods of significant precipitation, presenting an immediate and imminent threat to public health and safety.

Following these periods of significant rainfall, the drainage system often remains overwhelmed for anywhere from days to several weeks, preventing the safe transport of supplies and volunteers to the County. Residents throughout the County have been without access to food, water, or first responders.

To mitigate loss of life and suffering during future events, the County proposes to build a series of detention ponds to prevent flooding along IH-10, Hwy 12, Hwy 62, and Hwy 87 – the County’s evacuation routes. Removing the risk of flooding along these roadways will ensure residents may safely evacuate and further ensure that the supply chain remains open for those unable to do so.

Construction will consist of the channel construction, excavation, inlet/outlets, swale drains, and all-weather access roads each location. Embankment construction and a pump station will be installed at the Cole Creek Ponds. These improvements will provide approximately 650 acres of surface water detention.

The proposed project benefits all 84,047 residents of the County.

Total Project Costs:	\$40,516,125.00
Local Funds:	\$ 405,162.00
Engineering:	\$ 4,516,125.00
Administration:	\$ 2,400,000.00
Construction:	\$30,107,500.00
Acquisition:	\$ 3,492,500.00



CDBG-MIT: Budget Justification of Retail Costs (Former Table 2)

Cost Verification Controls must be in place to assure that construction costs are reasonable and consistent with market costs at the time and place of construction.

Applicant/Subrecipient:		Orange County				
Site/Activity Title:		Orange County Detention Ponds				
Eligible:						
Materials/Facilities/Services	\$/Unit	Unit	Quantity	Construction	Acquisition	Total
<i>Claiborne North Pond</i>						
Mobilization (insurance, payment and performance bonds, moving equipment) (3%)	\$ 355,000.00	EA	1	\$ 355,000.00	\$ -	\$ 355,000.00
Property Acquisition	\$ 5,500.00	AC	240	\$ -	\$ 1,320,000.00	\$ 1,320,000.00
Channel Construction	\$ 80.00	LF	780	\$ 62,400.00	\$ -	\$ 62,400.00
Detention Pond Construction (including excavation and embankment)	\$ 2.90	CY	3150000	\$ 9,135,000.00	\$ -	\$ 9,135,000.00
All weather access road (including base and surface around perimeter of pond)	\$ 36.00	LF	14000	\$ 504,000.00	\$ -	\$ 504,000.00
Inlet Structure (including concrete structure and rip-rap for erosion control)	\$ 55,000.00	EA	1	\$ 55,000.00	\$ -	\$ 55,000.00
Outlet Structure (including concrete structure and outlet control)	\$ 50,000.00	EA	1	\$ 50,000.00	\$ -	\$ 50,000.00
Swale Drain	\$ 30.00	LF	6400	\$ 192,000.00	\$ -	\$ 192,000.00
Construction Material Testing	\$ 25,000.00	EA	1	\$ 25,000.00	\$ -	\$ 25,000.00
SWPPP (Including NOI, Installation, Maintenance, Inspection, NOT)	\$ 20,000.00	EA	1	\$ 20,000.00	\$ -	\$ 20,000.00
<i>Claiborne South Pond</i>						
Mobilization (insurance, payment and performance bonds, moving equipment) (3%)	\$ 250,000.00	EA	1	\$ 250,000.00	\$ -	\$ 250,000.00
Property Acquisition	\$ 5,500.00	AC	155	\$ -	\$ 852,500.00	\$ 852,500.00
Channel Construction	\$ 80.00	LF	1095	\$ 87,600.00		\$ 87,600.00
Detention Pond Construction (including excavation and embankment)	\$ 2.90	CY	2015000	\$ 5,843,500.00		\$ 5,843,500.00
All weather access road (including base and surface around perimeter of pond)	\$ 36.00	LF	15125	\$ 544,500.00		\$ 544,500.00
Inlet Structure (including concrete structure and rip-rap for erosion control)	\$ 55,000.00	EA	1	\$ 55,000.00		\$ 55,000.00
Outlet Structure (including concrete structure and outlet control)	\$ 50,000.00	EA	1	\$ 50,000.00		\$ 50,000.00
Swale Drain	\$ 30.00	LF	6360	\$ 190,800.00		\$ 190,800.00
Construction Material Testing	\$ 25,000.00	EA	1	\$ 25,000.00		\$ 25,000.00
SWPPP (Including NOI, Installation, Maintenance, Inspection, NOT)	\$ 20,000.00	EA	1	\$ 20,000.00		\$ 20,000.00
<i>Little Cypress Pond</i>						

Mobilization (insurance, payment and performance bonds, moving equipment) (3%)	\$ 200,000.00	EA	1	\$ 200,000.00		\$ 200,000.00
Property Acquisition	\$ 6,500.00	AC	120	\$ -	\$ 780,000.00	\$ 780,000.00
Channel Construction	\$ 80.00	LF	180	\$ 14,400.00		\$ 14,400.00
Detention Pond Construction (including excavation and embankment)	\$ 2.90	CY	1550000	\$ 4,495,000.00		\$ 4,495,000.00
All weather access road (including base and surface around perimeter of pond)	\$ 36.00	LF	10300	\$ 370,800.00		\$ 370,800.00
Inlet Structure (including concrete structure and rip-rap for erosion control)	\$ 55,000.00	EA	1	\$ 55,000.00		\$ 55,000.00
Outlet Structure (including concrete structure and outlet control)	\$ 50,000.00	EA	1	\$ 50,000.00		\$ 50,000.00
Swale Drain	\$ 30.00	LF	3840	\$ 115,200.00		\$ 115,200.00
Construction Material Testing	\$ 25,000.00	EA	1	\$ 25,000.00		\$ 25,000.00
SWPPP (Including NOI, Installation, Maintenance, Inspection, NOT)	\$ 20,000.00	EA	1	\$ 20,000.00		\$ 20,000.00
Adams Bayou Pond						
Mobilization (insurance, payment and performance bonds, moving equipment) (3%)	\$ 160,000.00	EA	1	\$ 160,000.00		\$ 160,000.00
Property Acquisition	\$ 5,500.00	AC	80	\$ -	\$ 440,000.00	\$ 440,000.00
Channel Construction	\$ 70.00	LF	800	\$ 56,000.00		\$ 56,000.00
Detention Pond Construction (including excavation and embankment)	\$ 2.90	CY	1075000	\$ 3,117,500.00		\$ 3,117,500.00
All weather access road (including base and surface around perimeter of pond)	\$ 36.00	LF	9600	\$ 345,600.00		\$ 345,600.00
Inlet Structure (including concrete structure and rip-rap for erosion control)	\$ 55,000.00	EA	1	\$ 55,000.00		\$ 55,000.00
Outlet Structure (including concrete structure and outlet control)	\$ 50,000.00	EA	1	\$ 50,000.00		\$ 50,000.00
Swale Drain	\$ 30.00	LF	3700	\$ 111,000.00		\$ 111,000.00
Construction Material Testing	\$ 25,000.00	EA	1	\$ 25,000.00		\$ 25,000.00
SWPPP (Including NOI, Installation, Maintenance, Inspection, NOT)	\$ 20,000.00	EA	1	\$ 20,000.00	\$ -	\$ 20,000.00
Cole Creek West Pond						
Mobilization (insurance, payment and performance bonds, moving equipment) (3%)	\$ 90,000.00	EA	1	\$ 90,000.00		\$ 90,000.00
Property Acquisition (Drainage Easements)	\$ 50,000.00	LS	1	\$ -	\$ 50,000.00	\$ 50,000.00
Channel Construction	\$ 80.00	LF	250	\$ 20,000.00		\$ 20,000.00
Pump Station	\$ 900,000.00	EA	1	\$ 900,000.00		\$ 900,000.00
Embankment Construction and Detention Pond Reshaping	\$ 2.90	CY	120000	\$ 348,000.00	\$ -	\$ 348,000.00
All weather access road (including base and surface around perimeter of pond)	\$ 36.00	LF	4700	\$ 169,200.00	\$ -	\$ 169,200.00
Inlet Structure (including concrete structure and rip-rap for erosion control)	\$ 55,000.00	EA	1	\$ 55,000.00	\$ -	\$ 55,000.00

Outlet Structure (including concrete structure and outlet control)	\$ 50,000.00	EA	1	\$ 50,000.00	\$ -	\$ 50,000.00
Construction Material Testing	\$ 25,000.00	EA	1	\$ 25,000.00	\$ -	\$ 25,000.00
SWPPP (Including NOI, Installation, Maintenance, Inspection, NOT)	\$ 20,000.00	EA	1	\$ 20,000.00	\$ -	\$ 20,000.00
Cole Creek East Pond						
Mobilization (insurance, payment and performance bonds, moving equipment) (3%)	\$ 90,000.00	EA	1	\$ 90,000.00		\$ 90,000.00
Property Acquisition	\$ 50,000.00	LS	1	-	\$ 50,000.00	\$ 50,000.00
Channel Construction	\$ 80.00	LF	150	\$ 12,000.00		\$ 12,000.00
Pump Station	\$ 900,000.00	EA	1	\$ 900,000.00		\$ 900,000.00
Embankment Construction and Detention Pond Reshaping	\$ 2.90	CY	120000	\$ 348,000.00		\$ 348,000.00
All weather access road (including base and surface around perimeter of pond)	\$ 36.00	LF	5000	\$ 180,000.00		\$ 180,000.00
Inlet Structure (including concrete structure and rip-rap for erosion control)	\$ 55,000.00	EA	1	\$ 55,000.00	\$ -	\$ 55,000.00
Outlet Structure (including concrete structure and outlet control)	\$ 50,000.00	EA	1	\$ 50,000.00	\$ -	\$ 50,000.00
Construction Material Testing	\$ 25,000.00	EA	1	\$ 25,000.00	\$ -	\$ 25,000.00
SWPPP (Including NOI, Installation, Maintenance, Inspection, NOT)	\$ 20,000.00	EA	1	\$ 20,000.00	\$ -	\$ 20,000.00
	\$ -	LS		\$ -	\$ -	\$ -
	\$ -		0	\$ -	\$ -	\$ -
	\$ -		0	\$ -	\$ -	\$ -
TOTAL	\$ 3,968,823.40			\$ 30,107,500.00	\$ 3,492,500.00	\$ 33,600,000.00

1. Identify and explain the annual projected operation and maintenance costs associated with the proposed activities.

2. Identify and explain any special engineering activities.



NA

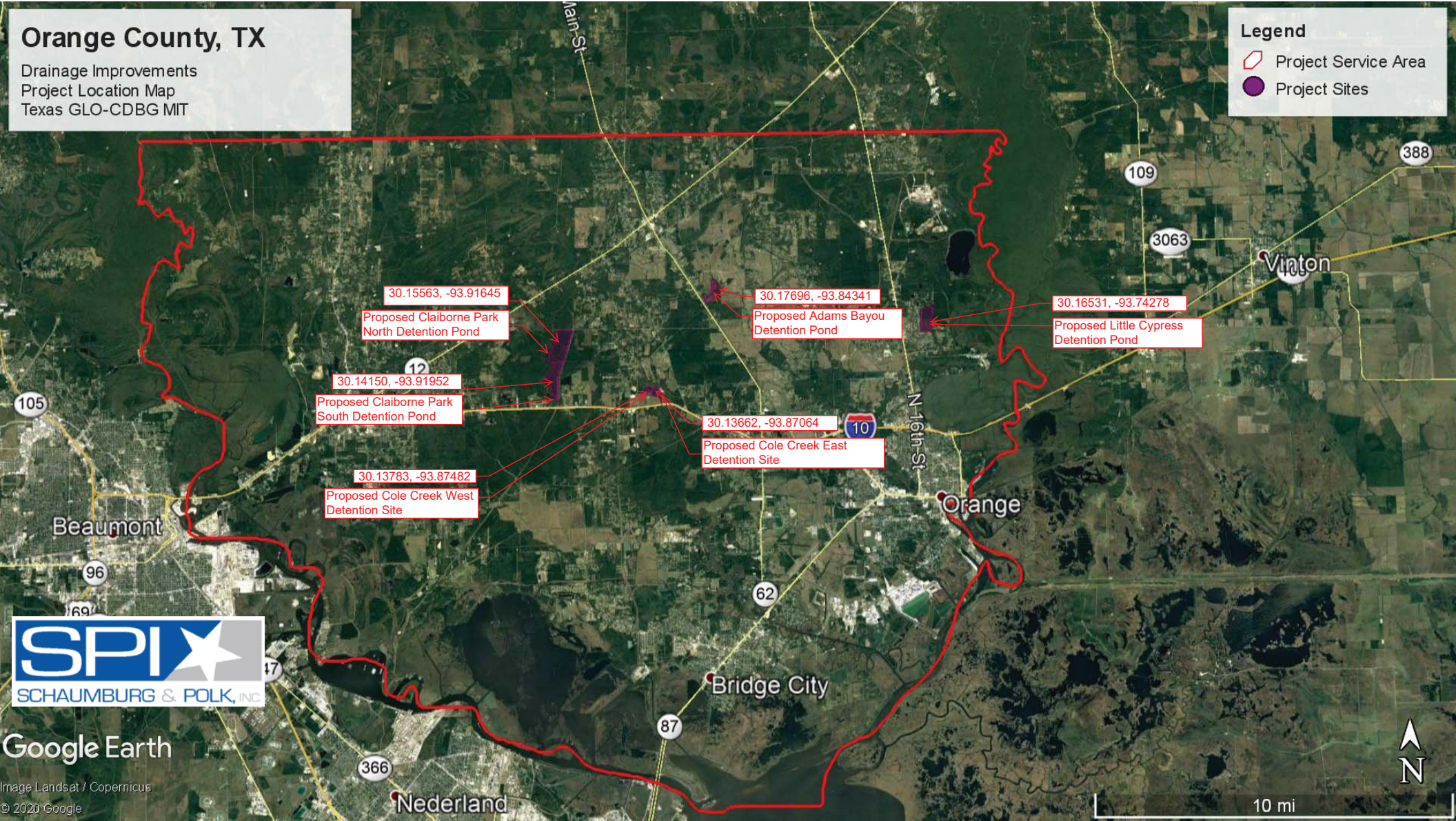
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Date:				
Phone Number:				
	Signature of Registered Engineer/Architect Responsible For Budget Justification:			

Orange County, TX

Drainage Improvements
Project Location Map
Texas GLO-CDBG MIT

Legend

-  Project Service Area
-  Project Sites



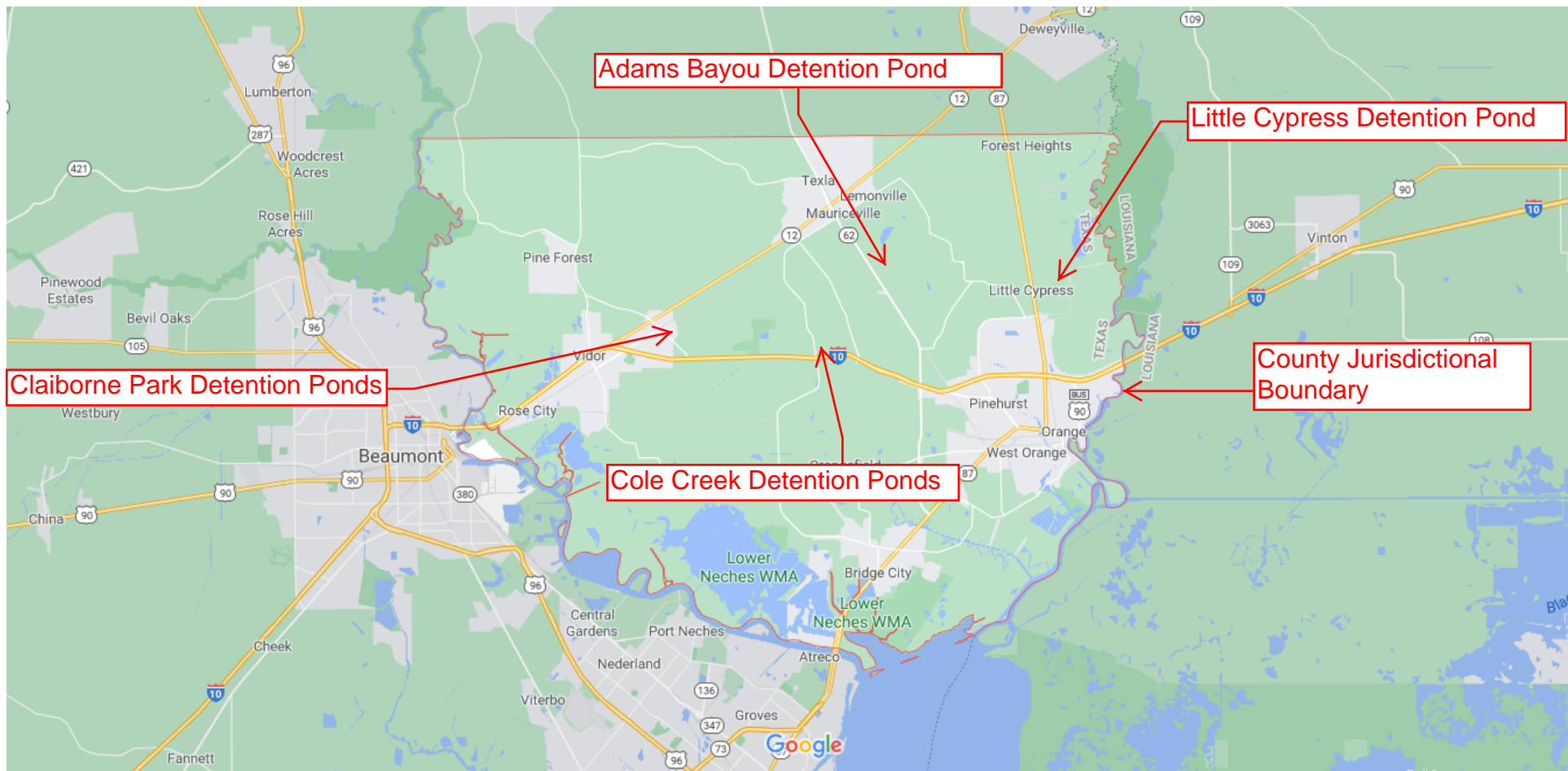
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Orange County

Flood & Drainage Improvements Beneficiary Map



Map data ©2020 2 mi