

The background of the slide is a light gray gradient with several realistic water droplets of various sizes scattered across it. The droplets have highlights and shadows, giving them a three-dimensional appearance.

**CITY OF WESTON LAKES**

**DRAINAGE COMMITTEE  
QUESTIONS & ANSWERS**

OCTOBER 7, 2020

# COMMENTS

- QUESTIONS WERE SUBMITTED BY TED CASE.
- MANUALLY CLICK THROUGH THE SLIDE SHOW. IF THERE IS A SPEAKER ICON THERE WILL BE AUDIO.
- THE SCRIPT WAS WRITTEN BY OUR ENGINEERS. WE WILL BE AVAILABLE ON SATURDAY IN THE MEETING TO ANSWER OTHER QUESTIONS.
- WE ENCOURAGE YOU TO CONTACT STEVE SPEARS (STEVE.SPEARS@ATT.NET) OR BURTON JOHNSON (BJOHNSON@BJEENGINEERING.COM) IF YOU HAVE QUESTIONS PRIOR TO THE MEETING .

# QUESTION #1

- AT THE SEPTEMBER MEETING THE COMMITTEE ADDRESSED 11 TARGET PROJECTS. I FOR ONE AM NOT AN ENGINEER AND EVEN GOT MIX RESPONSES FROM PRESENTERS AS TO THE EFFECTIVENESS OR CAPABILITY TO IMPLEMENT OF SOME PROJECTS PRESENTED. PLEASE HAVE THEM RANK THESE PROJECTS WITH EQUAL WEIGHTING FOR THE FOLLOWING: A. WHAT WE CAN ADDRESS IN THE SHORT TERM (1-2 YEARS), B. WHAT LEVEL OF DRAINAGE WILL THE PROJECT ADDRESS (ASSUME IT IS SOMEWHERE BETWEEN 100-110 FEET), AND C. COST. JUST TRYING TO FOCUS ON WHAT WE CAN AND CAN'T FEASIBLY GET DONE.

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# Group 1 Recommended projects - Highlighted in blue

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Project	Timeline between funding and completion	Timeline Ranking	Expected Flood WSE	Other Projects Required	Flood Control Ranking	ROM Cost Estimate	ROM Cost Ranking	Entities Involved/ Partnerships	Overall Ranking Points (smaller = better)
<b>Issue 1 – Regulate Backflow of Water into Pecan Lake</b>									
Project H – Connect Pecan Lake to Bessie's Creek at lower WSE	28 months	3	105 feet	U or T	1	\$1.6 million	1	FBC, FBC Toll Road Authority, Corps of Engineers	5
Project I – Convert SP rail bed to dam	20 months	3	105 feet	U or T	1	\$650,000	1	FBC, FBC Toll Road Authority	5
Project J – Clear Bessie's Creek Channel Downstream of James Lane	18 months	2	-0.5 foot	H or I plus U or T	2	F&N estimate \$70 million	3	FBCDD	7
Project J Alt – Clear Bessie's Creek Channel From James Lane to Fulshear Run	9 months	1	-0.5 foot	H or I plus U or T	2	\$5.2 million	3	FBCDD	6
Project K- Replace James Lane Bridge over Bessie's Creek	18 months	2	-0.5 foot	H or I plus U or T	2	\$2 million	2	FBC	6
Project O – Raise Pecan Lake Dam	20 months	3	105 feet	U or T	1	> \$2 million, not estimated	3	FBC, Fulbrook	7
<b>Issue 2 – Relieve Excess Pecan Lake WSE to Brazos</b>									
Project P – Modified Jones & Carter Recommendation	12 months.	1	107.9 feet per J&C	Fail	10	\$1.5 million	1	Michael Burns, FBC	12
Project S – Route thru old oxbow to Orchard Diversion	14 months	1	107 ft	Fail	10	\$1,2 million	1	Michael Burns, FBC	12
Project T – Route thru old oxbow and West to Brazos	29 months	3	105 feet	H or I	1	\$5 million	3	Michael Burns, FBC	7
Project U – Route thru Weston Lakes to Brazos	14 months	1	105 feet	H or I	1	\$2 million	2	CoWL POA	4
<b>Issue 3 – Control Excess Water From West of Bowser Road</b>									
Project M – Collect Water Flowing Off East Side of Pool Hill	22 months	3	unknown	H or I plus U or T	3	\$1.9 million	2	FBC , add to Bowser Road Project	8
Project Y – Twinwood Diversion	22 months	3	unknown	H or I plus U or T	3	5.4 Million	3	Twinwood cost share	9
<b>Other Projects (Internal)</b>									
Project L – Raise Weston Lakes Entrance Bridge	12 months.	1	none	nice to have	3	\$550,000	1	POA	5
Project N – Fill Slough and Install Check Valves on Drain Pipes	12 months.	1	unknown	none	3	\$500,000	1	MUD 81 FBCDD Corp of Engineers	5

## Group 2 Recommended Projects highlighted in green

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# Projects Listings and Ranking

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Project	Project	Location	Project Benefits					
	Inside WL	Outside WL	Waterford	Estate	Lake Village	Bradford on the Bend	Fulbrook	Downstream Communities
<b>Issue 1 – Regulate Backflow of Water into Pecan Lake</b>								
Project H – Connect Pecan Lake to Bessie's Creek at lower WSE		X	X	X	X	X		
Project I – Convert SP rail bed to dam		X	X	X	X	X		
Project J – Clear Bessie's Creek Channel Downstream of James Lane		X	X	X	X	X	X	X
Project J Alt – Clear Bessie's Creek Channel From James Lane to Fulshear Run		X	X	X	X	X	X	
Project K- Replace James Lane Bridge over Bessie's Creek		X	X	X	X	X	X	
Project O – Raise Pecan Lake Dam		X	X	X	X	X		
<b>Issue 2 – Relieve Excess Pecan Lake WSE to Brazos</b>								
Project P – Modified Jones & Carter Recommendation	X	X		Note 1		Note 1		
Project S – Route thru old oxbow to Orchard Diversion	X	X		Note 1		Note 1		
Project T – Route thru old oxbow and West to Brazos	X	X	X	X	X	X		
Project U – Route thru Weston Lakes to Brazos	X		X	X	X	X		
<b>Issue 3 – Control Excess Water From West of Bowser Road</b>								
Project M – Collect Water Flowing Off East Side of Pool Hill		X		X				
Project Y – Twinwood Diversion		X		X	X			
<b>Other Projects (Internal)</b>								
Project L – Raise Weston Lakes Entrance Bridge	X		X	X	X	X		
Project N – Fill Slough and Install Check Valves on Drain Pipes	X			X		X		

[Click Here for answer](#)



## QUESTION #2

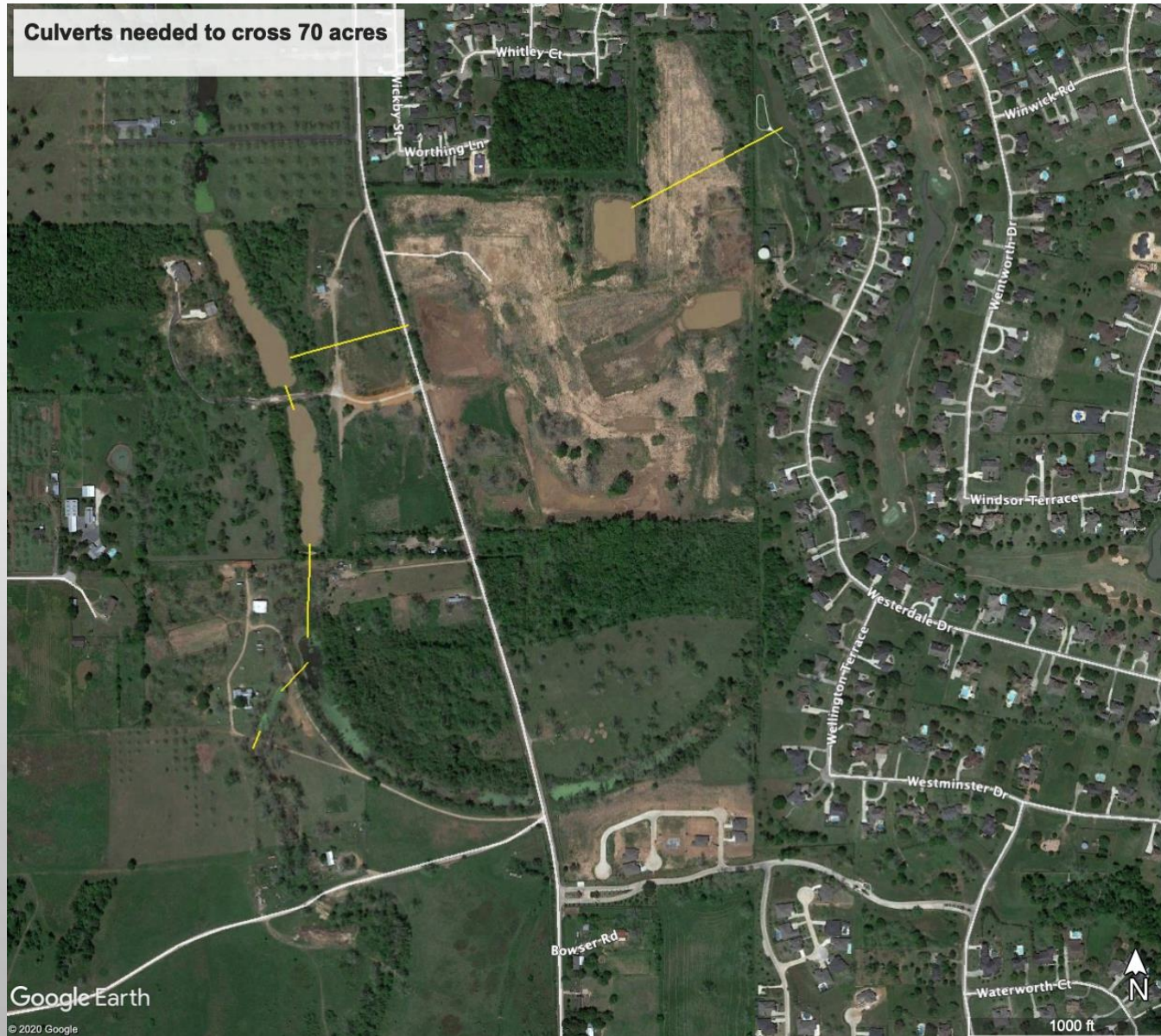
- THE FIRST CITY COUNCIL MEETING WITH THE DRAINAGE COMMITTEE PRODUCED A PRESENTATION WHICH WE REVIEWED AFTER 5 - 6 MONTHS OF THEIR EFFORTS. WE DO THANKS THESE CITIZENS FOR THEIR EFFORTS. THEN 30 DAYS LATER THE PRESENTATION ELIMINATED THE JONES AND CARTER RECOMMENDATIONS. COULD YOU PLEASE HAVE THIS ADDRESSED IN DETAIL AS TO WHY THIS IS NOT A VIABLE OPTION.

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# 70 ACRE TRACT ON BOWSER ROAD



The line from just east of Bowser Rd. to the 6 acre lakes and the Culverts from the lakes to Bowers Rd. (not shown) were a single 48" culvert. Our ROM cost estimate for this project (P) increase these runs to four 48" CMP. Once Pecan Lake overflow water reaches the 6 acre lake, Google Earth shows a driveway and another filled in land mass before the water can reach the curved part of the oxbow where Orchard Creek Diversion begins. The J&C Estimate has no allowance for the material and labor to provide a flow path through these obstacles.

## QUESTION #3

- COULD YOU HAVE THE COMMITTEE ADDRESS AFTER HAVING A DISCUSSION WITH THE POA HOW THE PROJECT "U" WOULD WORK WITH THE ONGOING LITIGATION.

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Drainage East and West to Brazos



Drainage Paths East (Project U) and West (Project T)

# COMMITTEE COMMENTS:

- WE SHOULD CONSIDER DEALING WITH THE OBVIOUS QUESTION, WHICH IS "WHAT IF WE GET GRANTS AND HAVE SOME MONEY, BUT LESS THAN THE \$10 MILLION MINIMUM REQUIRED TO DO ALL OF THE RECOMMENDED PROJECTS?"
- WE WOULD HOPE TO BE ABLE TO DO EITHER H OR I PLUS PROJECT U CONCURRENTLY, REALIZING THAT OUR PROTECTION WILL BE MARGINAL UNTIL WE CAN TAKE CARE OF OUR PROBLEMS FROM THE WEST. WE SHOULD PUSH TO GET A SEAT AT THE TABLE AT THE BOWSER ROAD PROJECT, AND TRY TO ENSURE THAT PROJECT M IS HANDLED AS PART OF THE BOWSER ROAD PROJECT.
- WE NEED TO GO AHEAD AND ENGAGE TWINWOOD TO SEE IF THERE IS A MUTUALLY BENEFICIAL PROJECT TO OFFLOAD ORCHARD CREEK WATER TO THE BRAZOS.