

STATE OF TEXAS §
 §
COUNTY OF FORT BEND §

**AMENDMENT TO AGREEMENT FOR
PROFESSIONAL ENGINEERING SERVICES**

THIS AMENDMENT, is made and entered into by and between Fort Bend County (hereinafter “County”), a body corporate and politic under the laws of the State of Texas, and LJA Engineering, Inc., (hereinafter “Contractor”), a company authorized to conduct business in the State of Texas.

WHEREAS, the parties executed and accepted that certain Agreement for Professional Engineering Services on May 25, 2021 pursuant to SOQ 14-025, (hereinafter “Agreement”); and

WHEREAS, the parties desire to amend the Agreement to allow Contractor to provide additional Services under the Agreement.

NOW, THEREFORE, the parties do mutually agree as follows:

1. County shall pay Contractor an additional amount not to exceed five hundred twenty-five thousand one hundred twenty-two dollars and 25/100 (\$525,122.25) to perform the additional Services, as described in Contractor’s proposal dated June 23, 2022 attached hereto as Exhibit “A” and incorporated herein for all purposes.
2. The Maximum Compensation payable to Contractor for all Services rendered is hereby increased to an amount not to exceed one million eight hundred eleven thousand three hundred ninety-eight dollars and 06/100 (\$1,811,398.06), authorized as follows:
 \$1,286,275.81 under the Agreement; and
 \$525,122.25 under this Amendment.
3. In no case shall the amount paid by County for all Services under the Agreement and this Amendment exceed the Maximum Compensation without an agreement executed by the parties.
4. BY ACCEPTANCE OF AGREEMENT, CONTRACTOR ACKNOWLEDGES THAT THE COUNTY IS OPPOSED TO HUMAN TRAFFICKING AND THAT NO COUNTY FUNDS WILL BE USED IN SUPPORT OF SERVICES OR ACTIVITIES THAT VIOLATE HUMAN TRAFFICKING LAWS.

Except as provided herein, all terms and conditions of the Agreement shall remain unchanged.

IN WITNESS WHEREOF, the parties hereto have signed or have caused their respective names to be signed to multiple counterparts to be effective on the date signed by the final party.

FORT BEND COUNTY

LJA ENGINEERING, INC

KP George, County Judge



Authorized Agent – Signature

Date

Daniel J. C. Copps III, PE

Authorized Agent – Printed Name

ATTEST:

Senior Vice President

Title

Laura Richard, County Clerk

08/31/2022

Date

APPROVED:



J. Stacy Slawinski, P.E., County Engineer

AUDITOR'S CERTIFICATE

I hereby certify that funds are available in the amount of \$_____ to accomplish and pay the obligation of Fort Bend County under this contract.

Robert Ed Sturdivant, County Auditor

EXHIBIT A

June 23, 2022

PROPOSAL

Fort Bend County Engineering
c/o Mr. Mark Dessens, PE
Schaumburg & Polk, Inc.
11767 Katy Freeway, Suite 900
Houston, Texas 77079

Re: Bowser Road Widening Project No. 20306 Supplemental Fee
LJA Proposal No. 21-3514 CO1

Dear Mr. Dessens:

LJA Engineering, Inc. (LJA) is pleased to submit this proposal for additional services to complete this project. The supplemental will cover the additional property acquisitions, Ashe Rd cul-de-sac and connector, and new outfall drainage the south end of the project towards the Brazos River. This Proposal is made pursuant to the terms and conditions of the Professional Services Agreement ("PSA") entered into on May 25, 2021 by and between LJA Engineering, Inc. ("LJA") and Fort Bend County ("Client").

Our lump sum compensation for professional services associated with the supplemental to the contract for the completion of the final design for this project is \$525,122.25. A summarized breakdown of our team's fees is tabulated in our attached level of effort and sub-provider proposal. We would also request the authorization of the \$60,000.00 additional services originally identified in our initial proposal for analysis of the alternative outfall to the Brazos River.

LJA appreciates the opportunity to continue working with Fort Bend County on this critical infrastructure project. If you have any questions regarding this proposal, please contact me on my cellphone at 713.391.7966 or by email at JRBaker@LJA.com.

Sincerely,



James R. Baker, PE
Vice President

JRB/pa

Attachments A, B, C

ATTACHMENT A

Scope of Services

The scope of work for preliminary and final design for the widening of Bowser Rd from FM 1093 to the intersection with Winding Stream Drive will include the following items on a lump sum basis:

- I. Design Ashe road cul-de-sac and connector road from Bowser to Ashe across vacant lot.
- II. Develop alternatives for additional outfall south to the Brazos river, either directly south or southwest into existing tributary.

ATTACHMENT B-FEE SCHEDULE

COMPANY	FEE
LJA Engineering, Inc. (LJA)	\$152,895.00
Landtech Surveying, Inc. (LSI)	\$372,227.25
Lump Sum TOTAL	\$525,122.25
Contract Total	\$525,122.25

ATTACHMENT B-FEE SCHEDULE (LJA Engineering, Inc.)

PRIME PROVIDER NAME: LJA Engineering, Inc.
 PROJECT NAME/CSJ: Bowser rd Widening

TASK DESCRIPTION	PROJECT DIRECTOR	SENIOR PROJECT MANAGER	PROJECT ENGINEER	ENGINEER IN TRAINING	ADMIN/CLERICAL	TOTAL LABOR HRS. & COSTS	NO OF DWGS	HR / SHT
DESIGN SURVEYS AND CONSTRUCTION SURVEYS (FC 150)								
B. COORDINATE/REVIEW SURVEY	8	8		8		24	N/A	N/A
HOURS SUB-TOTALS	8	8	0	8	0	24	0	
TOTAL LABOR COSTS	\$2,400.00	\$1,960.00	\$0.00	\$960.00	\$0.00	\$5,320.00		
SUBTOTAL (FC 150)						\$5,320.00		

TASK DESCRIPTION	PROJECT DIRECTOR	SENIOR PROJECT MANAGER	PROJECT ENGINEER	ENGINEER IN TRAINING	ADMIN/CLERICAL	TOTAL LABOR HRS. & COSTS	NO OF DWGS	HR / SHT
ROADWAY DESIGN CONTROLS (FC160)								
A. ROADWAY DESIGN								
1. HORIZONTAL ALIGNMENT DATA SHEET - ASHE RD and Connector	2	4	4	12		22	1	22
B. TYPICAL SECTIONS								
1. EXISTING TYPICAL SECTIONS - ASHE RD and Connector	2	4	8	8		22	1	22
2. PROPOSED TYPICAL SECTIONS - ASHE RD and Connector	2	8	20	40		70	3	23
C. PLAN PROFILES								
1. ASHE	2	4	8	12		26	1	26
2. Connector	2	4	8	12		26	1	26
HOURS SUB-TOTALS	10	24	48	84	0	166	83	
TOTAL LABOR COSTS	\$3,000.00	\$5,880.00	\$8,160.00	\$10,080.00	\$0.00	\$27,120.00		
SUBTOTAL (FC 160)						\$27,120.00		

TASK DESCRIPTION	PROJECT DIRECTOR	SENIOR PROJECT MANAGER	PROJECT ENGINEER	ENGINEER IN TRAINING	ADMIN/CLERICAL	TOTAL LABOR HRS. & COSTS	NO OF DWGS	HR / SHT
DRAINAGE (FC161)- ADDED OUTFALL								
A. DATA COLLECTION / FIELD INVESTIGATION	4	4	8	8		24	N/A	N/A
B. REVIEW SURVEY DATA	4	4	8	8		24	N/A	N/A
C. MEET WITH STAKEHOLDERS	4	4				8	N/A	N/A
D. HYDROLOGIC STUDIES								
1. DESIGN METHODOLOGIES	1	1	2	12		16	N/A	N/A
2. COMPUTE DESIGN FLOWS		2	4	12		18	N/A	N/A
2. CONSIDER PRE AND POST CONSTRUCTION CONDITIONS	2	4	8	16		30	N/A	N/A
3. DETENTION REQUIREMENTS	2	8	16	16		42	N/A	N/A
4. DRAINAGE REPORT	2	8	16	80	8	114	N/A	N/A
H. PLANS, SPECIFICATIONS AND ESTIMATES (PS&E) DEVELOPMENT FOR HYDRAULICS								
1. SUMMARY OF QUANTITIES	2	4	8	8		22	1	22
2. HYDROLOGIC DATA SHEETS	2	4	8	8		22	1	22
3. HYDRAULIC DATA SHEETS	2	4	8	8		22	1	22
4. Channel Outfall P&P's	24	48	120	96		288	12	24
5. ASHE P&P (SHOWN ON ROADWAY P&P'S)	2	4	8	12		26	1	26
6. Connector P&P (SHOWN ON ROADWAY P&P'S)	2	4	8	12		26	1	26
HOURS SUB-TOTALS	53	103	222	296	8	682		
TOTAL LABOR COSTS	\$15,900.00	\$25,235.00	\$37,740.00	\$35,520.00	\$600.00	\$114,995.00		
SUBTOTAL (FC 161)						\$114,995.00		

TASK DESCRIPTION	PROJECT DIRECTOR	SENIOR PROJECT MANAGER	PROJECT ENGINEER	ENGINEER IN TRAINING	ADMIN/CLERICAL	TOTAL LABOR HRS. & COSTS	NO OF DWGS	HR / SHT
SIGNING, PAVEMENT MARKINGS AND SIGNALIZATION (FC 162)								
A. SIGNING / PAVEMENT MARKING								
1. SIGNING AND MARKING LAYOUTS	4	4	8	16		32	2	16
HOURS SUB-TOTALS	4	4	8	16	0	32		
TOTAL LABOR COSTS	\$1,200.00	\$980.00	\$1,360.00	\$1,920.00	\$0.00	\$5,460.00		
SUBTOTAL (FC 162)						\$5,460.00		

DESCRIPTION	TOTAL MH BY FC	TOTAL COST BY FC
DESIGN SURVEYS AND CONSTRUCTION SURVEYS (FC 150)	24	\$5,320.00
ROADWAY DESIGN CONTROLS (FC160)	166	\$27,120.00
DRAINAGE (FC161)- ADDED OUTFALL	682	\$114,995.00
SIGNING, PAVEMENT MARKINGS AND SIGNALIZATION (FC 162)	32	\$5,460.00

OTHER DIRECT EXPENSES	# OF UNITS	COST/UNIT	UNIT	TOTAL COST
Mileage	0	\$0.55	mile	\$0.00
Courier Services	0	\$25.00	each	\$0.00
Photocopies B/W (8 1/2" x 11")	0	\$0.10	each	\$0.00
Photocopies B/W (11" x 17")	0	\$0.20	each	\$0.00
Photocopies Color (8 1/2" x 11")	0	\$0.75	each	\$0.00
Photocopies Color (11" x 17")	0	\$1.25	each	\$0.00
Plots (Color on Bond)	0	\$4.00	square foot	\$0.00
SUBTOTAL DIRECT EXPENSES				\$0.00

SUMMARY	
TOTAL COSTS FOR LJA ONLY	\$152,895.00
NON-SALARY (OTHER DIRECT EXPENSES) FOR LJA ONLY	\$0.00
GRAND TOTAL LJA	\$152,895.00

ATTACHMENT C



Landtech, Inc.
2525 North Loop West, Suite 300
Houston, Texas 77008
T: 713-861-7068; F: 713-861-
4131
TBPELS Reg. No. 10019100

June 21, 2022

Mr. James R. Baker, PE
LJA Engineering
1904 West Grand Parkway North, Suite 100
Katy, Texas 77449

RE: Proposal to Provide Professional Surveying Services – Bowser Road
Topographic and Right-of-Way Surveying – Additional Services

Dear Mr. Baker:

It is my pleasure to submit the following proposal for providing additional professional surveying services for the above referenced project. The Surveying Services proposed herein will be performed in accordance with Chapters 6 and 7 of the August 2020 Draft version of the Fort Bend County Engineering Department Engineering Design Manual (Design Manual) as follows:

6. ASHE ROAD AND CONNECTOR - ADDITIONAL TOPOGRAPHIC AND EXISTING RIGHT-OF-WAY SURVEYING AND MAPPING
 - 6.1. Prepare Right of Entry Letters and mail them to affected property owners. Track responses.
 - 6.2. Project Control will be tied to previously established control. Control points will be spaced at a maximum of 1,000 feet through the project limits. The project baseline alignment for this section will be staked in field at all PCs, PTs, PIs, and 1,000-foot stations. The baseline alignment will be provided to Landtech by LJA Engineering. Control and baseline data will be added to Survey Control Map.
 - 6.3. Collect Topographic Survey data within area outlined in orange as shown in Ashe Road Survey Limits.pdf (**470 linear feet**). Scope of work will be as previously provided. Mapping will be updated to show new survey.
 - 6.4. Survey visible surface utilities. Request One Call marking of utilities. Field survey resulting markings and SUE Level B Utility designation markings and provide to SUE consultant for inclusion in their Level B mapping. Obtain pipe size and flowline elevations for sanitary and storm manholes and inlets.
 - 6.5. Perform Property Title Abstracting for preliminary ownership determination (1-2 adjoining parcels). Survey front property corners for right of way (ROW) location. Adjoining property ownership information and existing ROW lines will be shown in the CAD file deliverable.
 - 6.6. CONSTRUCTION SURVEYING SERVICES - The project baseline alignment for this section will be staked in field at all PCs, PTs, PIs, and 1,000-foot stations. The baseline alignment will be provided to Landtech by LJA Engineering. Stake ROW lines every 100 feet, at angle points, and at the beginning and end of curves.

7. PROPOSED OUTFALL ALTERNATE SOUTH ALONG BOWSER ROAD WITH CONNECTOR - ADDITIONAL TOPOGRAPHIC AND EXISTING RIGHT-OF-WAY SURVEYING AND MAPPING
 - 7.1. Prepare Right of Entry Letters and mail them to affected property owners. Track responses.
 - 7.2. Project Control will be tied to previously established control. Control points will be spaced at a maximum of 1,000 feet through the project limits. The project baseline alignment for this

section will be staked in field at all PCs, PTs, PIs, and 1,000-foot stations. The baseline alignment will be provided to Landtech by LJA Engineering. Control and baseline data will be added to Survey Control Map.

- 7.3. Collect Topographic Survey data along Bowser Road and its extension from the previous survey's south limit to Brazos River edge of water (**3,820 linear feet**). Width of survey will be **full width of Bowser Road ROW plus 100 feet to the west**. Also survey lateral connector from Bowser Road west to existing outfall ditch (**900 linear feet by 100 feet wide**). Scope of work will be as previously provided. Mapping will be updated to show new survey.
 - 7.4. Survey visible surface utilities. Request One Call marking of utilities. Field survey resulting markings and SUE Level B Utility designation markings and provide to SUE consultant for inclusion in their Level B mapping. Obtain pipe size and flowline elevations for sanitary and storm manholes and inlets.
 - 7.5. Perform Property Title Abstracting for preliminary ownership determination (approximately 17 adjoining parcels). Survey front property corners for right of way (ROW) location. Adjoining property ownership information and existing ROW lines will be shown in the CAD file deliverable. There are no ROW Map Sheets or Acquisition Parcels scoped for this task.
 - 7.6. Survey 4 Geotechnical Borings after drilling.
 - 7.7. CONSTRUCTION SURVEYING SERVICES - The project baseline alignment for this section will be staked in field at all PCs, PTs, PIs, and 1,000-foot stations. The baseline alignment will be provided to Landtech by LJA Engineering. Stake ROW lines every 100 feet, at angle points, and at the beginning and end of curves.
8. EXISTING OUTFALL DITCH WEST OF BOWSER ROAD - ADDITIONAL TOPOGRAPHIC AND EXISTING RIGHT-OF-WAY SURVEYING AND MAPPING
- 8.1. Prepare Right of Entry Letters and mail them to affected property owners. Track responses.
 - 8.2. Project Control will be tied to previously established control. Control points will be spaced at a maximum of 1,000 feet through the project limits. The project baseline alignment for this section will be staked in field at all PCs, PTs, PIs, and 1,000-foot stations. The baseline alignment will be provided to Landtech by LJA Engineering. Control and baseline data will be added to Survey Control Map.
 - 8.3. Collect Topographic Survey data at 250-foot intervals along the existing outfall from the southerly most Oxbow to Brazos River edge of water (**7,250 linear feet**). Width of survey will be full width of ditch plus 50 feet past both high banks. Scope of work will be as previously provided. Mapping will be updated to show new survey. Survey does not include ditch geometry between cross sections.
 - 8.4. Survey visible surface utilities. Request One Call marking of utilities. Field survey resulting markings and SUE Level B Utility designation markings and provide to SUE consultant for inclusion in their Level B mapping. Obtain pipe size and flowline elevations for sanitary and storm manholes and inlets.
 - 8.5. Survey 4 Geotechnical Borings after drilling.

Please note Property Title Abstracting and mapping of adjoining property ownership information and existing ROW lines is not included, and there are no Construction Surveying Services scoped for this task.

9. PROPOSED RIGHT-OF-WAY SURVEYS

- 9.1. Prepare Proposed ROW Map showing existing and proposed ROW and proposed acquisition parcels. Besides the previously proposed 14 parcels, **assume an additional 53 parcels**.
- 9.2. Prepare updated KMZ file showing existing ROW with ownership information, proposed takings with parcel numbers, and a preliminary roadway layout. The preliminary roadway layout will be provided to Landtech by LJA Engineering.

9.3. Prepare parcel map and metes and bounds description for each proposed ROW parcel to be acquired for the project. ROW map and proposed acquisition parcel deliverables will conform with Texas Society of Professional Surveyors Category 1B, Condition II standards and will be signed and sealed by a Texas Registered Professional Land Surveyor. Includes field survey of back corners of parent tracts of proposed acquisition parcels and field staking of acquisition parcel corners along the proposed ROW at angle points, PCs, PTs, and intersecting property lines. Besides the previously proposed 14 parcels, **assume an additional 53 parcels.**

10. ADDITIONAL SERVICES - SUE LEVELS D, C, AND B; UTILITY PLAN AND PROFILE MAPPING

10.1. Coordination and management of subcontractor for additional tasks.

Fees for the above described services are as follows (see attached spreadsheet 'Bowser Rd_2022-02-16.pdf' for breakdown of tasks, hours, and rates):

6. Ashe Road & Connector (Lump Sum)	=	\$ 10,699.65
7. Proposed Outfall Alternate South Along Bowser (Lump Sum)	=	\$ 57,021.84
8. Existing Outfall Ditch West of Bowser (Lump Sum)	=	\$ 57,681.44
9.1/9.2 Proposed ROW Surveying & Mapping (Lump Sum)	=	\$ 50,430.32
9.3 Proposed Acquisition Parcels (Lump Sum Per Parcel)	=	\$174,506.00
10. Additional Services – Landtech Coordination of SUE	=	\$ 3,148.00
Total Estimated Fee Tasks 6-10 based on estimated 53 Parcels	=	\$353,487.25

Additional Services – Subsurface Utility Engineering and Plan and Profile Utility Mapping:

Landtech will obtain the services of a Subsurface Utility Engineer to provide SUE Level D, C and B Services as follows:

1. One Call & Records Research
2. SUE Field Designation of Above Ground Utility Features
3. CADD Utility Base Map
4. Utility Conflict Table
5. Existing Utility Plan & Profile Sheets
6. QA/QC

The Lump Sum Fee for this Additional Service will be \$18,740.00. Please see attached proposal by RODS Subsurface Utility Engineering for a detailed scope of work and breakdown of fee by tasks and unit cost.

Total Fee – All Tasks and Services: \$372,227.25

Thank you for the opportunity to submit this proposal. We look forward to working with you.

Sincerely,
Landtech, Inc.



Dennis Chalaire, R.P.L.S.

Bowser Rd_2022-06-21.docx

Attachments: Spreadsheet 'Bowser Rd_2022-06-21.pdf'
Ashe Road Survey Limits.pdf
Bowser7 Survey Needs.pdf
2022-02-16_RODSSUE_FBC BOWSER RD SUPPLEMENTAL_PROPOSAL.pdf

LANDTECH, INC.
 PROPOSAL FOR TOPOGRAPHIC, RIGHT-OF-WAY, AND CONSTRUCTION SURVEYING SERVICES
 CLIENT: LJA Engineering
 PROJECT: Bowser Road - Fort Bend County
 DATE: 6/21/2022
 LENGTH (ft): Ashe Road and Connector 470
 Proposed Outfall Alternate South along Bowser Rd w/Connector 4,720
 Existing Outfall Ditch West of Bowser Rd 7,250
 Karlusin Court 100
 Total = 12,540 ft



- Notes:
 1. Surveys will be performed per Chapters 6 and 7 of the Fort Bend County Mobility Bond Design Manual
 2. Please refer to Letter of Proposal of same date for detailed scope of work.

DIRECT EXPENSES		Project	Project								
TASKS	DESCRIPTION	Manager (RPLS)	Surveyor (RPLS)	Survey Tech	CADD Tech	Abstractor	Admin/ Clerical	2-Person Crew	3-Person Crew	TOTAL HR PER TASK	TOTAL FEE PER TASK
6. ASHE ROAD AND CONNECTOR - ADDITIONAL TOPOGRAPHIC AND EXISTING ROW SURVEYING AND MAPPING											
6.1.	Prepare Right of Entry Letters and mail them to affected property owners. Track responses.		1	2		4	1			8	\$758.72
6.2.	Project Control will be tied to previously established control. Control points will be spaced at a maximum of 1,000 feet through the project limits. Control and baseline data will be added to Survey Control Map.		1	2				8		11	\$1,735.00
6.3.	Collect Topographic Survey data within area outlined in orange as shown in Ashe Road Survey Limits.pdf (470 linear feet). Scope of work will be as previously provided. Mapping will be updated to show new survey.	1	2	2	8			8		21	\$2,918.00
6.4.	Survey visible surface utilities. Request One Call marking of utilities. Field survey resulting markings and SUE Level B Utility designation markings, and provide to SUE consultant for inclusion in their Level B mapping. Obtain pipe size and flowline elevations for sanitary and storm manholes and inlets.		1	1	2			4		8	\$1,151.00
6.5.	Perform Property Title Abstracting for preliminary ownership determination (1-2 adjoining parcels). Survey front property corners for right of way (ROW) location. Adjoining property ownership information and existing ROW lines will be shown in the CAD file deliverable.		2	3	3	1		4		13	\$1,704.93
6.6.	CONSTRUCTION SURVEYING SERVICES - The project baseline alignment for this section will be staked in field at all PCs, PTs, PIs, and 1,000-foot stations. The baseline alignment will be provided to Landtech by LJA Engineering. Stake ROW lines every 100 feet, at angle points, and at the beginning and end of curves.		1	2				8		11	\$1,735.00
SUBTOTAL HOURS		1	8	12	13	5	1	32	0	72	
REIMBURSABLE EXPENSES											
	GPS Receiver		2 days x	\$225.00	=			\$450.00			
	Mileage		320 miles x	\$0.585	=			\$187.20			
	Certified Letter Return Receipt		2 letters x	\$7.40	=			\$14.80			
	Deed Copies		20 pages x	\$2.00	=			\$40.00			
	Plat Copies		1 sheets x	\$5.00	=			\$5.00			
										SubTotal Reimbursable Expenses	\$697.00
										SUBTOTAL LUMP SUM FEE TASK 6	\$10,699.65
7. PROPOSED OUTFALL ALTERNATE SOUTH ALONG BOWSER ROAD WITH CONNECTOR - ADDITIONAL TOPOGRAPHIC AND EXISTING ROW SURVEYING AND MAPPING											
7.1.	Prepare Right of Entry Letters and mail them to affected property owners. Track responses.		1	3		8	1			13	\$1,172.44
7.2.	Project Control will be tied to previously established control. Control points will be spaced at a maximum of 1,000 feet through the project limits. Control and baseline data will be added to Survey Control Map.	1	3	8	4			24		40	\$6,041.00
7.3.	Collect Topographic Survey data along Bowser Road and it's extension from the previous survey's south limit to Brazos River edge of water (3,820 linear feet). Width of survey will be full width of Bowser Road ROW plus 100 feet to the west. Also survey lateral connector from Bowser Road west to existing outfall ditch (900 linear feet by 100 feet wide). Scope of work will be as previously provided. Mapping will be updated to show new survey.	1	4	12	32			64		113	\$16,320.00
7.4.	Survey visible surface utilities. Request One Call marking of utilities. Field survey resulting markings and SUE Level B Utility designation markings, and provide to SUE consultant for inclusion in their Level B mapping. Obtain pipe size and flowline elevations for sanitary and storm manholes and inlets.		1	2	8			8		19	\$2,559.00
7.5.	Perform Property Title Abstracting for preliminary ownership determination (approximately 17 adjoining parcels). Survey front property corners for right of way (ROW) location. Adjoining property ownership information and existing ROW lines will be shown in the CAD file deliverable.	4	16	24	16	20		24		104	\$13,182.60
7.6.	Survey 4 Geotechnical Borings after drilling.		1	2	1			4		8	\$1,158.00
7.7.	CONSTRUCTION SURVEYING SERVICES - The project baseline alignment for this section will be staked in field at all PCs, PTs, PIs, and 1,000-foot stations. The baseline alignment will be provided to Landtech by LJA Engineering. Stake ROW lines every 100 feet, at angle points, and at the beginning and end of curves.		4	16				56		76	\$11,900.00
SUBTOTAL HOURS		6	30	67	61	28	1	180		373	
REIMBURSABLE EXPENSES											
	GPS Receiver		14 days x	\$225.00	=			\$3,150.00			
	Mileage		1800 miles x	\$0.585	=			\$1,053.00			
	Certified Letter Return Receipt		17 letters x	\$7.40	=			\$125.80			
	Deed Copies		170 pages x	\$2.00	=			\$340.00			
	Plat Copies		4 sheets x	\$5.00	=			\$20.00			
										SubTotal Reimbursable Expenses	\$4,688.80
										SUBTOTAL LUMP SUM FEE TASK 7	\$57,021.84

Ashe Road

Survey Limits

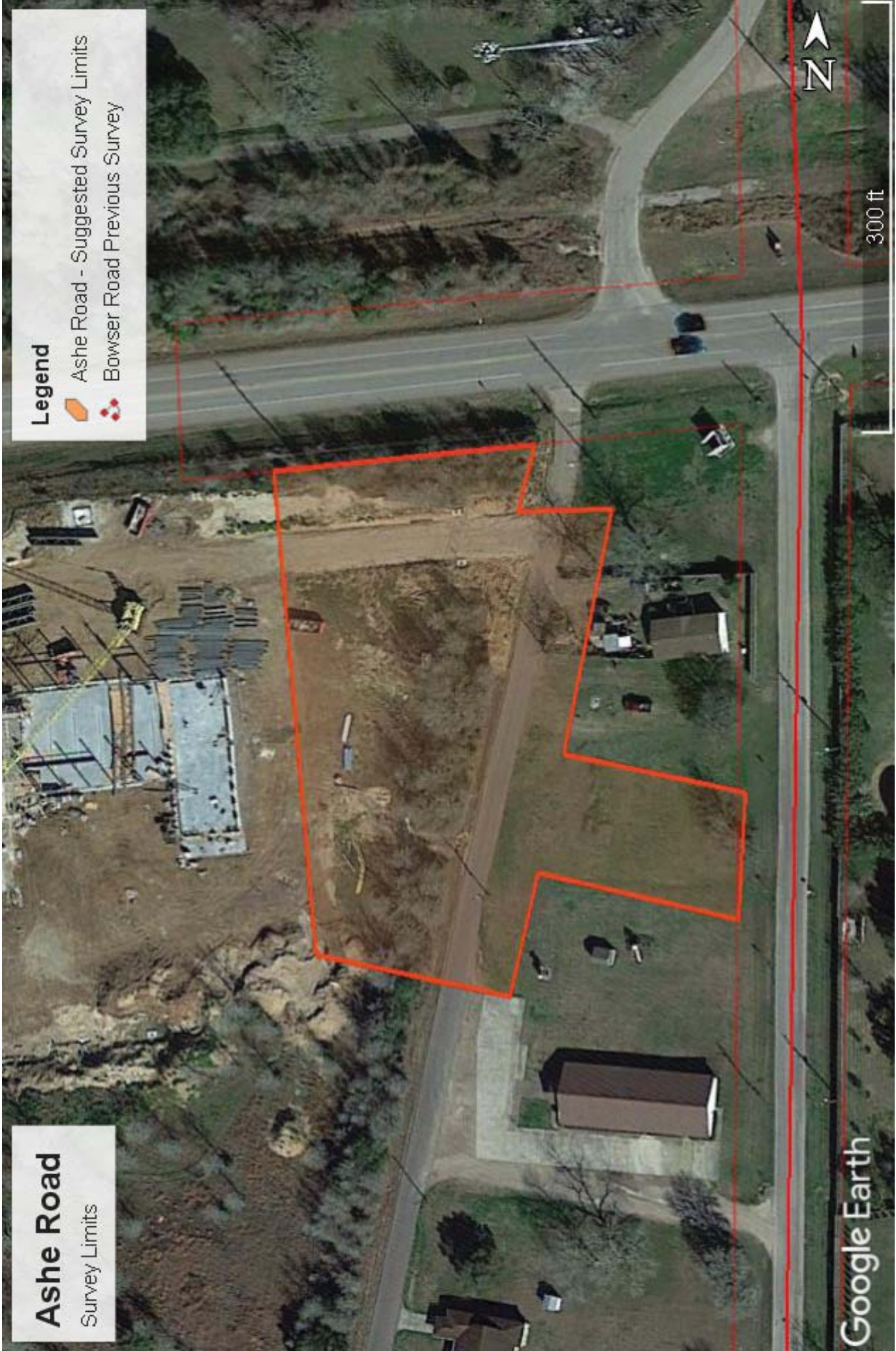
Legend

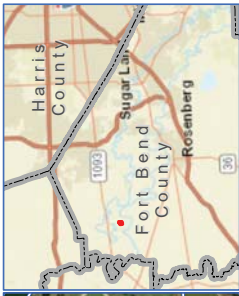
-  Ashe Road - Suggested Survey Limits
-  Bowser Road Previous Survey



300 ft

Google Earth





Note: This map was prepared from data provided by the client. The client is responsible for the accuracy of the data. The information is provided for informational purposes only and should not be used for any other purpose. The information is not intended to be used for any other purpose.

Data Source:
Aerial Photography 2018 (Mapbox)

LEGEND

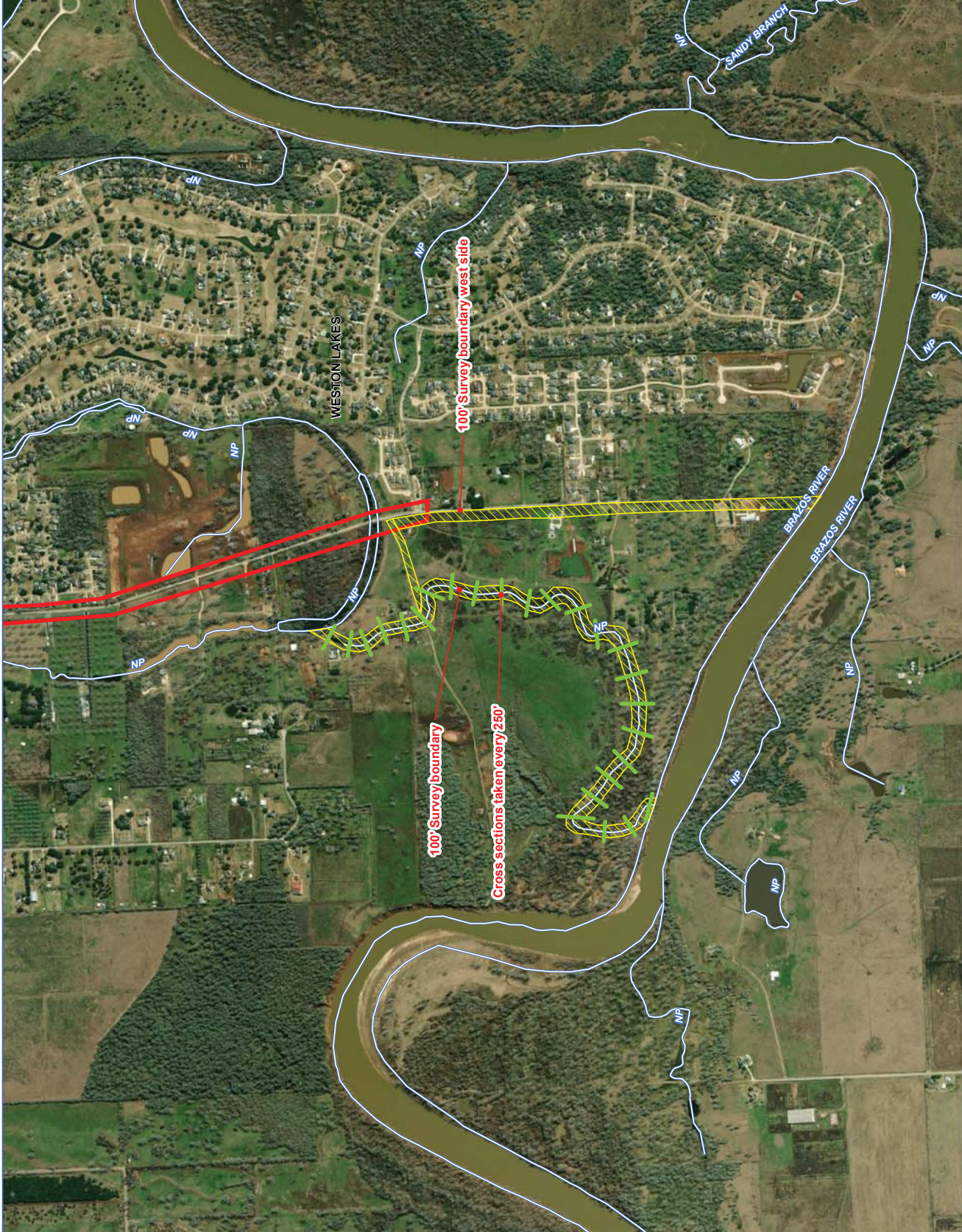
- BOWSER ROAD BOUNDARY
- CROSS SECTIONS
- SURVEY BOUNDARY

Exhibit 7

**BOWSER ROAD
DRAINAGE IMPACT ANALYSIS
SURVEY NEEDS**

Date: January 2022
Job No. 1704-2101

LJA Engineering, Inc.





February 16, 2022

Dennis Chalaire, R.P.L.S.
Landtech Surveying, Inc.
2525 North Loop West, Suite 300
Houston, Texas 77008
Email: dchalaire@landtech-inc.com
Phone: 713-861-7068

RE: Proposal for Quality Levels – D, C & B SUE
Fort Bend County - Bowser Rd Supplemental
Ashe Rd & Bowser Rd Outfall

Dear Mr. Chalaire:

We are pleased to submit the following proposal for the referenced project.

Scope & Limits

We understand the scope of work to consist of performing Quality Levels D, C & B SUE investigation per ASCE Standard 38-02. This includes:

- **SUE Quality Level D** involves preliminary site visit, research to determine utility owners, contacting the utility companies to request the existing utility records, and drawing the information obtained into a utility base map.
- **SUE Quality Level C** involves correlating the Quality Level D information obtained from existing utility record investigation with the visible surface features obtained from a topographic survey performed by Landtech Surveying. Limitations of a C&D investigation include utilities that have been sold or abandoned with no record or surface features.
- **SUE Quality Level B** involves the designation, recording, and marking the horizontal location of the existing utility facilities using non-destructive surface geophysical techniques, per APWA color standards. When data is reliable, cover shots indicating top of utility will be included at every 100 feet. Limitations of designation include signal bleed over due to congested utilities or utilities made of non-conductive material such as PVC or concrete. The Level B SUE marks will then be surveyed in by Landtech Surveying, and added to the utility base map, with utilities distinguished by quality level. Quality Level B incorporates information from Quality Levels C & D.
- **Utility Conflict Table** will be developed per Fort Bend County Engineering Department standards.
- **Existing Utility Plan & Profile Sheets** will be created showing the horizontal and vertical location of the utilities. Will utilize CADD file produced from SUE Quality Levels D, C & B investigations, and if no vertical information is available, will use typical utility depths per the Utility Accommodation section of the Texas Administrative Code (Title 43, Part 1, Chapter 21, Subchapter C, Rule 21.40).

**ATTACHMENT B - FEE SCHEDULE
FORT BEND COUNTY - BOWSER RD SUPPLEMENTAL - ASHE RD & BOWSER RD OUTFALL - SUE QUALITY LEVELS D, C & B**

February 16, 2022

PRIME PROVIDER NAME: Landtech Surveying, Inc.
SUBCONSULTANT NAME: RODS Subsurface Utility Engineering, Inc.



TASK DESCRIPTION	SUE PROJECT MANAGER	SUE SENIOR ENGINEER	SUE GRADUATE ENGINEER	SUE ENGINEERING TECHNICIAN	3-PERSON DESIGNATION CREW	TOTAL LABOR HOURS & COSTS
SUE Quality Levels D, C & B Services						
1. One Call, Site Visit & Records Research	1	2	6	8		\$1,930
2. SUE Field Designation of Above Ground Utility Features		3			30	\$7,530
3. Update CADD Utility Base Map		2	8	16		\$2,760
4. Update Utility Conflict Table	1	2	4	8		\$1,720
5. Update Existing Utility Plan & Profile Sheets		4	10	20		\$3,690
6. QA/QC	1	2	2	4		\$1,110
HOUR SUBTOTALS	3	15	30	56	30	134
LABOR RATE PER HOUR	\$180.00	\$160.00	\$105.00	\$100.00	\$235.00	
TOTAL LABOR COSTS	\$540.00	\$2,400.00	\$3,150.00	\$5,600.00	\$7,050.00	\$18,740.00
TOTAL FOR QL D, C & B SERVICES						\$18,740.00

Notes:

1. Project to be invoiced on a lump sum basis not to exceed total shown above.
2. Survey of QLB markings to be performed by Landtech Surveying, not included in this estimate.



Legend

-  Ashe Road - Suggested Survey Limits
-  Bowser Road Previous Survey

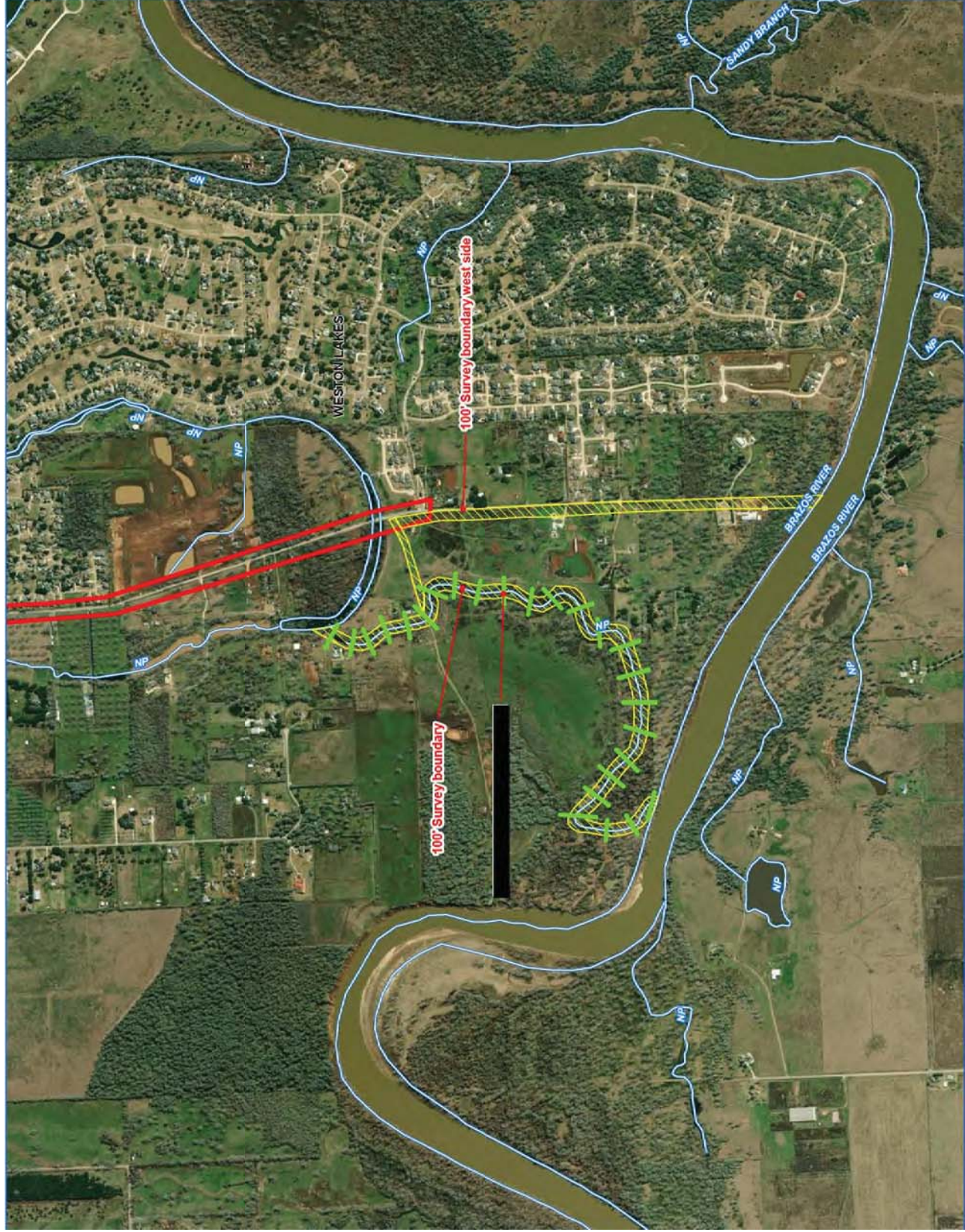
Ashe Road
Survey Limits

Google Earth

300 ft



ATTACHMENT C – PROJECT VICINITY MAP



Note: This aerial shows features necessary to locate the project. It is not intended to include all physical characteristics of the site.

Date: Survey
Aerial Photography: 2018 (Reimage)

- LEGEND
- BOWSER ROAD BOUNDARY
 - CROSS SECTIONS
 - SURVEY BOUNDARY

Exhibit 7

**BOWSER ROAD
DRAINAGE IMPACT ANALYSIS
SURVEY NEEDS**

Date: January 2022 Job No. 1704-2101

