

**SUPPLEMENTAL WORK AUTHORIZATION NO. 1**  
**TO**  
**WORK AUTHORIZATION NO. 1**

**WILLIAMSON COUNTY ROAD BOND PROJECT:**  
**Corridor A2 Segment 1**

This Supplemental Work Authorization No. 1 to Work Authorization No. 1 is made pursuant to the terms and conditions of the Williamson County Contract for Engineering Services, being dated March 19<sup>th</sup>, 2024 ("Contract") and entered into by and between Williamson County, Texas, a political subdivision of the State of Texas, (the "County") and LJA Engineering (the "Engineer").

WHEREAS, the County and the Engineer executed Work Authorization No. 1 dated effective March 22<sup>nd</sup>, 2024 (the "Work Authorization");

WHEREAS, pursuant to Article 14 of the Contract, amendments, changes and modifications to a fully executed Work Authorization shall be made in the form of a Supplemental Work Authorization; and

WHEREAS, it has become necessary to amend, change and modify the Work Authorization.

**AGREEMENT**

NOW, THEREFORE, premises considered, the County and the Engineer agree that the Work Authorization shall be amended, changed and modified as follows:

- I. The Services to be Provided by the Engineer that were set out in the original Attachment "B" of the Work Authorization are hereby amended, changed and modified as shown in the attached revised Attachment "B" (must be attached).
- II. The Work Authorization shall terminate on October 31<sup>st</sup>, 2026. The Services to be Provided by the Engineer shall be fully completed on or before said date unless extended by an additional Supplemental Work Authorization. The revised Work Schedule is attached hereto as Attachment "C" (must be attached).
- III. The maximum amount payable for services under the Work Authorization is hereby increased by \$ 109,220.07 from \$ 1,512,930.36 to \$ 1,622,150.43. The revised Fee Schedule is attached hereto as Attachment "D" (must be attached).

Except as otherwise amended by prior or future Supplemental Work Authorizations, all other terms of the Work Authorization are unchanged and will remain in full force and effect.

This Supplemental Work Authorization does not waive the parties' responsibilities and obligations provided under the Contract.

**IN WITNESS WHEREOF**, the County and the Engineer have executed this Supplemental Work Authorization, to be effective as of the date of the last party's execution below.

**ENGINEER:**


By:   
Signature

Derek Bohls, PE  
Printed Name

Vice President  
Title

5/16/2025  
Date

**COUNTY:**

By:  Steve Snell (Jun 17, 2025 08:42 CDT)  
Signature

Steve Snell  
Printed Name

County Judge  
Title

06/17/2025  
Date

**LIST OF ATTACHMENTS**

Attachment B - Services to be Provided by Engineer

Attachment C - Work Schedule

Attachment D - Fee Schedule

**APPROVED**

*By Christen Eschberger at 2:20 pm, Jun 03, 2025*

**ATTACHMENT B**  
**ADDITIONAL SERVICES TO BE PROVIDED BY THE ENGINEER FOR**  
**CORRIDOR A2 SEGMENT 1 (FM 973 to CR 406)**

**PROJECT DESCRIPTION**

**Project Limits**

**The proposed limits are FM 973 to CR 406 on the east end, a distance of approximately 2 miles.**

**Existing Facility**

**This new alignment road will tie into the existing FM 973 road at west end and CR 406 road at the east end. There is no existing ROW for this new location road.**

**Proposed Facility**

**The proposed facility is a new 2-lane road with 2-12' lanes and 10' shoulders that will serve as the future frontage road of Corridor A2. The proposed ROW is generally 350'. The project includes two bridges at pond / stream crossings and a modified traffic signal at FM 973.**

**Design Criteria**

**The project will be designed in accordance with the Williamson County, City of Taylor, and TxDOT design criteria. TxDOT design criteria will only apply to portions of the project within TxDOT ROW at the intersection with FM 973.**

**1. PROJECT MANAGEMENT**

**a. MONTHLY PROGRESS REPORTS, INVOICES, AND BILLINGS (additional 10 months assumed):**

- Submit monthly progress status reports to the GEC. Progress reports will include: deliverable table, tasks completed, tasks/objectives that are planned for the upcoming periods, lists or descriptions of items or decisions needed from the County and its representatives. Subconsultant progress will be incorporated into the monthly progress report. A copy of the monthly progress report will be uploaded to ProjectWise.
- Prepare correspondence, invoices, and progress reports on a monthly basis in accordance with current County requirements.

**b. ADDITIONAL PROJECT COORDINATION & ADMINISTRATION:**

- Prepare and maintain routine project record keeping including records of meetings and minutes.
- Correspondence and coordination will be handled through & with the concurrence of the GEC.

- Manage Project activities (including documenting emails, phone and conference calls, maintain project files for the length of the project, meeting agendas, meeting minutes, and schedule meetings), direct Engineer's team/staff, coordinate and review sub-consultant work, correspond with the County and its representatives, and assist the County and its representatives in preparing responses to Project-related inquiries.
- c. PROGRESS/COORDINATION MEETINGS (additional **20** external meetings assumed):
  - Attend coordination/progress meeting with the County and its representatives and stakeholders, as necessary to communicate development of the project and design issues.
  - Conduct internal coordination meetings as required to advance the development of the project.

## 2. SURVEYING

### a. ROW ACQUISITION FIELD NOTES

- Review and revise right-of-way acquisition documents. Evaluate the field data, perform boundary analysis and prepare a set of field notes with sketch to accompany.

### b. FIELD SURVEYING:

- Finalize survey of the corridor area at approximately 50 foot intervals and to include 100 feet on either side of the proposed roadway centerline as necessary to produce one-foot interval contours. Information collected will typically include as follows: visible improvements and visible utilities including driveways, water wells, storage tanks, drainage structures (size, material, flowline elevations), edge of pavement/shoulder, physical centerline, roadway striping, guardrail, fences, signs, mailboxes, top and bottom of drainage ditches, sidewalk, and trees 8" inch diameter and greater.

### c. DELIVERABLES:

- Mapping in 2-D and 3-D MicroStation Files
- DTM of Proposed Corridor
- PDF and CADD file of Field Notes

### 3. GEOTECHNICAL SERVICES

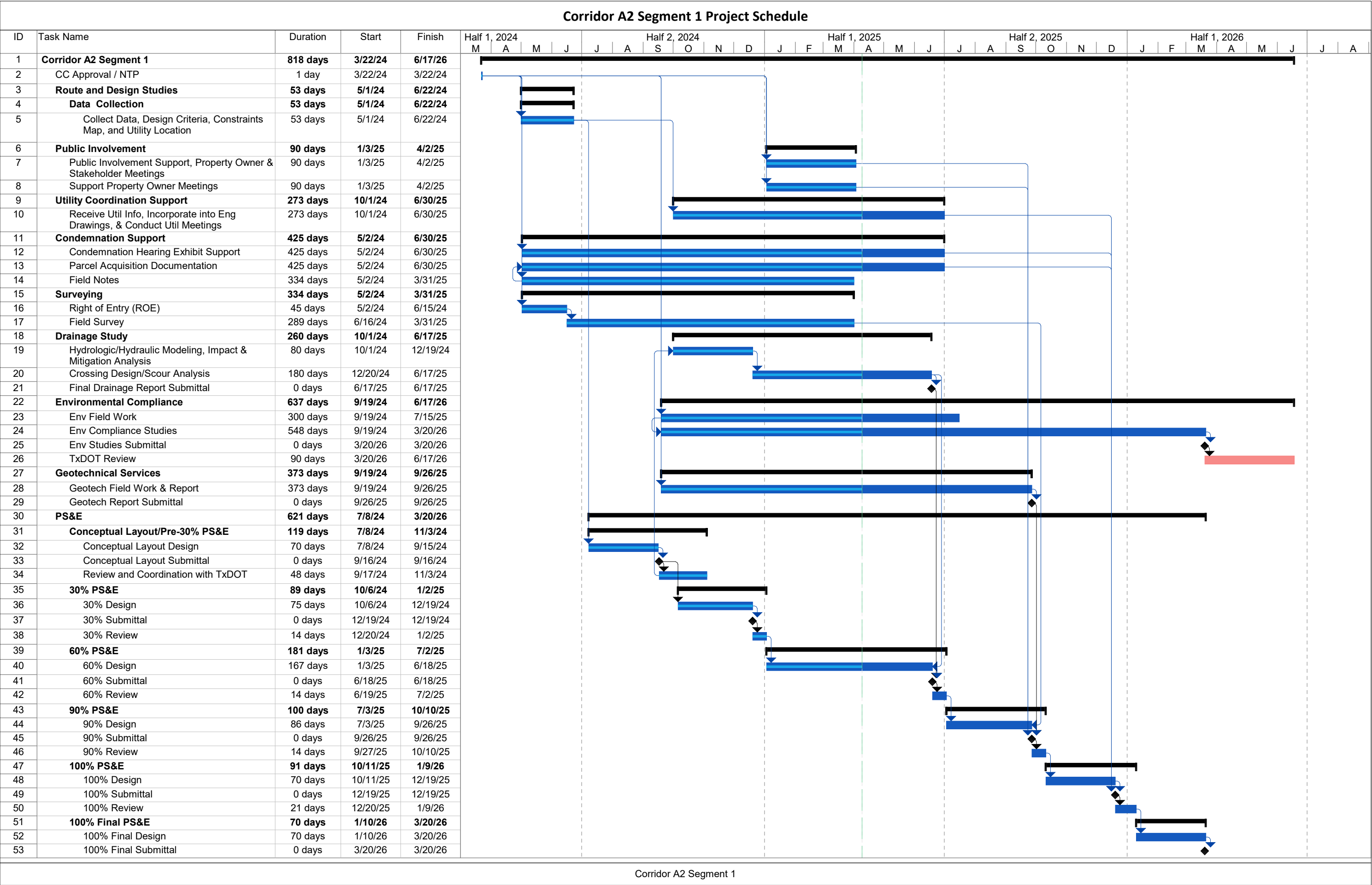
#### a. BORINGS:

- Additional bridge borings and geotechnical analysis due to new 2024 Geotechnical TxDOT requirements.

#### b. DELIVERABLES:

- Draft & Final Pavement Design Report
- Draft & Final Bridge Design Report
- Draft & Final Retaining Wall Report
- Draft & Final Scour Analysis

ATTACHMENT C



ATTACHMENT D - FEE SCHEDULE	
ADDITIONAL SERVICES FOR CORRIDOR A2 SEGMENT 1:	
<b>LABOR</b>	
LJA Engineering (Prime)	\$ 27,700.00
LJA Survey (Survey)	\$ 19,964.00
Raba Kistner (Geotech)	\$ 15,215.01
<b>DIRECT COSTS</b>	
Raba Kistner (Geotech)	\$ 46,341.06
<b>TOTAL</b>	<b>\$ 109,220.07</b>

LJA Engineering

Corridor A2 Segment 1																	
TASK DESCRIPTION	Project Principal	Senior Project Manager	Project Manager	Quality Manager	Senior Engineer	Project Engineer	Design Engineer	Senior Designer	Designer	E.I.T.	Senior Structural Engineer	Structural Engineer	Senior Engineering Technician	Senior CADD Operator	CADD Technician	Admin	Total
	325.00	290.00	260.00	260.00	240.00	210.00	180.00	175.00	125.00	150.00	260.00	220.00	160.00	145.00	120.00	90.00	
	HOURS	HOURS	HOURS	HOURS	HOURS	HOURS	HOURS	HOURS	HOURS	HOURS	HOURS	HOURS	HOURS	HOURS	HOURS	HOURS	HOURS
1.a Monthly Progress Report, Invoices, & Billings (10 months assumed)																	
Monthly Progress Reports			5													5	10
Monthly Invoices			5													5	10
1.b Project Coordination & Administration																	
Prepare Project Records & Meeting Minutes			2							8						8	18
Coordination with the GEC		4	2		4												10
Manage Project Activities (emails, calls, meetings, manage/review subs, coordination)		8	8		8											8	32
1.c Progress/Coordination Meetings (20 external meetings assumed)																	
Kickoff and Progress Meetings with County and Representatives (30 Meetings)		2	8														10
Prepare Agenda and Sign-in Sheets			4													4	8
Prepare Meeting Minutes			4													8	12
Internal Coordination Meetings		2	8		8	8											26
TASK 1 TOTAL HOURS	0.0	16.0	46.0	0.0	20.0	8.0	0.0	0.0	0.0	8.0	0.0	0.0	0.0	0.0	0.0	38.0	136.0
TASK 1 TOTAL FEE	\$0	\$4,640	\$11,960	\$0	\$4,800	\$1,680	\$0	\$0	\$0	\$1,200	\$0	\$0	\$0	\$0	\$0	\$3,420	\$27,700
TASK 2 – SURVEYING																	
(See LJA Survey Fee)																	
TASK 3 – GEOTECHNICAL SERVICES																	
(See Raba Kistner Fee)																	
TASK 4 – ENVIRONMENTAL SERVICES																	
(See SWCA Fee)																	
TOTAL Corridor A2 Segment 1 Tasks																	
TOTAL HOURS (LJA)	0.0	16.0	46.0	0.0	20.0	8.0	0.0	0.0	0.0	8.0	0.0	0.0	0.0	0.0	0.0	38.0	136.0
TOTAL LABOR FEE (LJA)	\$0	\$4,640	\$11,960	\$0	\$4,800	\$1,680	\$0	\$0	\$0	\$1,200	\$0	\$0	\$0	\$0	\$0	\$3,420	\$27,700



# LJA Survey

FM 971 LJA SURVEY									
TASK DESCRIPTION	Sr. Project Manager RPLS	Project Manager RPLS	Sr. Project Surveyor	Project Surveyor	Survey Technician	Survey Draftsman	Two Man Survey Crew	Clerical	Hours Total
	220.00	185.00	160.00	139.00	115.00	95.00	175.00	75.00	
	HOURS	HOURS	HOURS	HOURS	HOURS	HOURS	HOURS	HOURS	HOURS
<b>TASK 2 - SURVEY</b>									
ROW Acquisition Field Notes - Revise & Finalize	4	6	6	12	12	16	18	4	78
Field Surveying	2	8	4	4	8	8	24		58
<b>TASK 2 TOTAL HOURS</b>	6.0	14.0	10.0	16.0	20.0	24.0	42.0	4.0	136.0
<b>TASK 2 TOTAL FEE</b>	\$1,320	\$2,590	\$1,600	\$2,224	\$2,300	\$2,280	\$7,350	\$300	<b>\$19,964</b>

CORRIDOR A2 SEG 1 (From FM 973 to CR 406) WILLIAMSON COUNTY											UNITS	SENIOR PROJECT ENGINEER \$233.58	PROJECT MANAGER \$204.10	DESIGN ENGINEER \$182.03	PROJECT ENGINEER \$159.12	EIT \$146.07	Field Coordinator /Logger \$119.02	Senior Geotech Technician \$91.80	Senior GIS/CADD Tech \$110.16	ADMIN \$71.40	Sub Total	Hr/Unit	RKCI Labor	
TASK											Hourly Rate:	Hours								Hours		Cost		
GEOTECHNICAL ENGINEERING SERVICES- LABOR																								
											0		\$ -											
FIELD COORDINATION (STAKE BORINGS AND UTILITY LOCATE)																10	6				16		\$ 1,741.00	
FIELD EXPLORATION (INCLUDING DYNAMIC ONE PENETROMETER)																	76				76		\$ 6,976.80	
PVR ANALYSES															2	4					6		\$ 902.52	
DRILLED SHAFT CAPACITIES (WINCORE capacity charts and Lpile parameters)															5	10					17		\$ 2,664.50	
FLEXIBLE PAVEMENT DESIGN ANALYSES													1								1		\$ 204.10	
DRAFT GEOTECHNICAL REPORT PREPARATION															4	6				3	13		\$ 1,727.10	
GEOTECHNICAL REPORT REVIEW & FINALIZATION													2		1	1				4	8		\$ 998.99	
																							\$ -	
																							\$ -	
TOTALS HOURS:											0		0	5	0	12	21	10	82	0	7	Row Total = 137 Column Total = 137		
LABOR COST:											\$ -	\$ 1,021	\$ -	\$ 1,909	\$ 3,067	\$ 1,190	\$ 7,528	\$ -	\$ 500			\$ 15,215.01		
											0.0%	3.6%	0.0%	8.8%	15.3%	7.3%	59.9%	0.0%	5.1%			\$ 15,215.01		
UNIT EXPENSES:																								
BASE SCOPE BRIDGE AND PAVEMENT BORINGS											FIELD OPERATIONS													
2.0 mile (approx. 10,600 lf)											Mobilization of Drill Rig 13 units \$600.00 each \$7,800.00													
13 Pavement Borings to 15 ft (approx. 800 ft apart)											Logger truck 4 units \$68.01 day \$272.04													
with DCP Testing											3" Thin-Wall Continuous Sampling 160 ft \$24.40 ft \$3,904.00													
											NX Rock Coring (Shale) 260 ft \$40.31 ft \$10,480.60													
1 Signal Boring to 40 ft											NX Rock Coring (Limestone) 0 ft \$53.04 ft \$0.00													
TWO BRIDGE STRUCTURES											TCP with Intermittent Sampling 80 ft \$32.88 each \$2,630.40													
1 Signal Boring to 40 ft											Standard Penetration Test (SPT) 0 ft \$29.92 each \$0.00													
4 Bridge Borings to 70 ft (FM 973 to CR 406)											Bentonite Backfill 420 ft \$7.00 ft \$2,940.00													
1 Signal Boring to 40 ft at CR 973											Concrete/AC Patch 0 units \$79.38 each \$0.00													
											Standby (setup, cleanup, travel btw borings) 4 hrs \$284.29 hr \$1,137.16													
											LABORATORY TESTING													
											Atterberg Limits 26 units \$125.84 each \$3,271.84													
											Moisture Content 60 units \$16.65 each \$999.00													
											Sieve Analysis (passing No. 4, 40, 200) 26 units \$120.04 each \$3,121.04													
											Unconfined Compression (Rock) 70 units \$75.46 each \$5,282.20													
											Lime Series (Tex-121-E Part III) 1 units \$452.33 each \$452.33													
											Moisture Denisty Relationship (TEX-114-E) 1 units \$350.45 each \$350.45													
											Texas Triaxial Compression (TEX-117-E) 1 units \$2,200.00 each \$2,200.00													
TOTAL UNIT EXPENSES:											\$44,841.06													
OTHER DIRECT EXPENSES:																								
											Utility Locates 1 days \$1,500.00 day \$1,500.00													
TOTAL OTHER DIRECT EXPENSES:											\$1,500.00													
TOTAL PROJECT COST:											\$61,556.07													