# CONTRACT AMENDMENT NO. 1 TO WILLIAMSON COUNTY CONTRACT FOR ENGINEERING SERVICES

### WILLIAMSON COUNTY ROAD BOND PROJECT: Liberty Hill Bypass East (Segment 3) ("Project")

THIS CONTRACT AMENDMENT NO. 1 to Williamson County Contract for Engineering Services is by and between Williamson County, Texas, a political subdivision of the State of Texas, (the "County") and LJA Engineering, Inc. (the "Engineer") and becomes effective as of the date of the last party's execution below.

WHEREAS, the County and the Engineer executed the Williamson County Contract for Engineering Services dated effective March 19<sup>th</sup>, 2024 (the "Contract");

WHEREAS, pursuant to Article 14 of the Contract, the terms of the Contract may be modified by a written fully executed Contract Amendment;

WHEREAS, the "Compensation Cap" under Article 5 of the Contract limits the maximum amount payable under the Contract to \$2,600,000.00; and,

WHEREAS, the Rate Schedule in Exhibit D of the Contract are limited to the rates noted in said Exhibit D; and,

WHEREAS, it has become necessary to amend the Contract.

#### **AGREEMENT**

NOW, THEREFORE, premises considered, the County and the Engineer agree that the Contract is amended as follows:

- I. The Compensation Cap under Article 5 of the Contract is hereby increased from \$2,600,000.00 to \$2,650,000.00, reflecting a total increase of \$50,000.00.
- II. The hourly Rates in the original Exhibit D of the Contract are hereby amended as shown in the attached revised Exhibit D (must be attached).

All other terms of the Contract are unchanged and will remain in full force and effect.

**IN WITNESS WHEREOF,** the County and the Engineer have executed this Contract Amendment, in duplicate, to be effective as of the date of the last party's execution below.

ENGINEER:	COUNTY:
By: 2 2 4 2 4	By: Valerie Covey
Signature	Signature
Derek Bohls, PE	Valerie Covey
Printed Name	Printed Name
Vice President	Presiding Officer
Title	Title
3/25/2025	Apr 9, 2025
Date	Date

# **APPROVED**

By Christen Eschberger at 2:23 pm, Apr 01, 2025

#### Exhibit D

#### LJA ENGINEERING **LIBERTY HILL BYPASS - SEGMENT 3 RATE SCHEDULE IN PSA EXHIBIT D** (per hour) **Project Principal** \$325.00 Senior Project Manager \$290.00 Project Manager \$260.00 Quality Manager \$260.00 Senior Engineer (15+ yrs) \$240.00 Project Engineer (10-15 yrs) \$210.00 Design Engineer (5-10 yrs) \$180.00 Senior Designer \$175.00 Designer \$125.00 Engineer-in-Training \$150.00 Senior Structural Engineer \$260.00 Structural Engineer \$220.00 \$160.00 Senior Engineering Technician Senior CADD Operator \$145.00 **CADD Technician** \$120.00 **Project Representative** \$130.00 **Utility Coordinator** \$140.00 Senior Utility Coordinator \$175.00 GIS Analyst/Cartography \$145.00 GIS Technician \$130.00 \$90.00 Admin

No changes in rates for LJA

# Exhibit D

No changes in rates for SWCA

SWCA Environmental Consultants		
LIBERTY HILL BYPASS - SEGMENT 3		
	RATE SCHEDULE	
	IN PSA	
	EXHIBIT D	
	(per hour)	
Subject Matter Expert IV	\$293.00	
Subject Matter Expert III	\$268.00	
Subject Matter Expert II	\$242.00	
Subject Matter Expert I	\$230.00	
Specialist XII	\$226.00	
Specialist XI	\$207.00	
Specialist X	\$189.00	
Specialist IX	\$169.00	
Specialist VIII	\$158.00	
Specialist VII	\$147.00	
Specialist VI	\$137.00	
Specialist V	\$123.00	
Specialist IV	\$114.00	
Specialist III	\$104.00	
Specialist II	\$91.00	
Specialist I	\$77.00	

	RATE SCHEDULE IN PSA EXHIBIT D
	(per hour)
Conventional Field Crew Services:	4
1 man reconnaissance or data gathering	\$140.00
2 man survey crew, with vehicle and data collection	\$190.00
3 man survey crew, with vehicle and data collection	\$225.00
Fixed Wing Flight crew (Includes pilot and Sensor Operator)	\$225.00
Helicopter Flight crew (Includes pilot and Sensor Operator)	\$225.00
Office/Professional/Technical Services:	1
Project Manager	\$201.50
GIS Technician - Senior	\$107.17
GIS Technician	\$87.32
Abstractor	\$85.97
Surveyor (RPLS) Senior	\$188.06
Surveyor (RPLS)	\$166.57
Survey Technician (Surveyor-In-Training) - SIT	\$115.53
Survey Technician	\$95.38
Certified Photogrammetrist	\$107.47
Aerial Mapping Technician	\$94.03
Aerial Office Technician	\$90.00
Aerial Processing Technician	\$91.35
LiDAR Task Lead	\$107.47
LiDAR Mapping Technician (Aerial)	\$96.72
LiDAR Office Technician (Aerial)	\$96.72
LiDAR Processing Technician (Helicopter, Fixed Wing, Mobile, UAS, Terrestrial)	\$96.72
Mapping Editor (includes QA/QC, Finishing & Finalization)	\$102.09
Orthophoto Specialist	\$91.35
Survey Field Crew Coordinator	\$91.35
Project Coordinator – Acquisition (Helicopter, Fixed Wing, Mobile, UAS, Terrestrial)	\$107.47
Project Coordinator - (Helicopter, Fixed Wing, Mobile, UAS, Terrestrial)	\$107.47
Administrative/ Clerical	\$85.97
Specialized Equipment:	
ATV (All-Terrain Vehicle)	\$85.00 per day
Additional Survey Vehicle	\$100.00 per day
LiDAR Terrestrial Scanner	\$100.00 per hour
UAV (Drone) Aerial Mapper	\$5,000.00 per day
Mobile Mapper	\$9,000.00 per day

No changes in rates for Raba Kistner

Sr. QC Reviewer         \$255.00           Senior Project Engineer         \$233.58           Project Engineer         \$159.12           Design Engineer         \$182.03           EIT         \$146.07           Geotechnical Logger         \$119.02           Senior Geotech Technician         \$91.80           Geotech Laboratory Technician         \$77.22           Geotech Laboratory Technician         \$154.02           Senior GIS Technician         \$110.16           CADD Technician         \$110.16           CADD Technician         \$104.81           Administrative Coordinator         \$71.40           FIELD OPERATIONS           Mobilization of drill rig         \$600.00 each           Logger Truck         \$68.01 per day           3 in. Thin wall Shelby Tube sampling         \$24.40 per ft           Hollow Stem Drilling         \$30.89 per ft           NX Rock Coring (shale)         \$40.31 per ft           NX Rock Coring (shale)         \$53.04 per ft           Standard Penetration Testing (SPT)         \$29.92 per test           TCP with intermittent sampling         \$32.88 per test           Bentonite Backfill         \$7.00 per ft           Standard Pavement Coring         \$93.05 each	RABA KISTNER		
IN PSA   EXHIBIT D (per hour)	LIBERTY HILL BYPASS - SEGMEN	IT 3	
Project Manager   \$204.10		RATE SCHEDULE	
Project Manager   \$204.10		IN PSA	
Project Manager \$204.10  Sr. QC Reviewer \$255.00  Senior Project Engineer \$1359.12  Design Engineer \$139.12  Design Engineer \$139.12  Design Engineer \$182.03  EIT \$3146.07  Geotechnical Logger \$119.02  Senior Geotech Technician \$91.80  Geotech Laboratory Technician \$97.22  Geotech Laboratory Technician \$82.74  Geologist \$154.02  Senior GIS Technician \$10.16  CADD Technician \$10.481  Administrative Coordinator \$71.40  FIELD OPERATIONS  Mobilization of drill rig \$600.00 each Logger Truck \$68.01 per day 3 in. Thin wall Shelby Tube sampling \$24.40 per ft Hollow Stem Drilling \$30.89 per ft NX Rock Coring (Ishale) \$40.31 per ft Standard Penetration Testing (SPT) \$29.92 per test TCP with intermittent sampling \$32.88 per test Bentonite Backfill \$7.00 per ft Standard Pavement Coring \$93.05 each Concrete/AC patch \$79.38 each \$79.38 each \$154.02  Standby (setup time and cleanup) \$284.29 per hr LABORATORY TESTING  Atterberg Limits \$125.84 each Moisture Content \$16.65 each \$150.40 each Longing Content \$125.12 each Unconfined Compression (Soil) \$60.06 each Unconfined Compression (Rock) \$75.46 each Direct Shear \$650.18 each Consolidated Undrained (CU) Triaxial Comp Test \$1,925 each Lime Series (Tex-121-E Part III) \$452.33 each Sto.45 each Consolidated Undrained (CU) Triaxial Comp Test \$1,925 each Lime Series (Tex-121-E Part III) \$452.33 each Sto.45 each Consolidated Undrained (CU) Triaxial Comp Test \$1,925 each Lime Series (Tex-121-E Part III) \$452.33 each Sto.45 each Sinchudes moisture-density relationship (TEX-114-E) \$2,200 each California Bearing Ratio (ASTM D 1833) includes moisture-density relationship test and 3 test specimens		EXHIBIT D	
Sr. QC Reviewer   \$255.00		(per hour)	
Sr. QC Reviewer   \$255.00			
Senior Project Engineer   \$233.58	Project Manager	\$204.10	
Project Engineer	Sr. QC Reviewer	\$255.00	
Standard Penetration Testing (SPT)   Standard Pavement Coring   Standard Pavement Coring   Standard Pavement Coring   Standard Pavement Content   Standard Pavement Pavement Pavement Paveme	Senior Project Engineer	\$233.58	
EIT \$146.07 Geotechnical Logger \$119.02 Senior Geotech Technician \$91.80 Geotech Technician \$91.80 Geotech Laboratory Technician \$82.74 Geologist \$154.02 Senior Gis Technician \$110.16 CADD Technician \$110.16 CADD Technician \$110.16 CADD Technician \$104.81 Administrative Coordinator \$71.40  FIELD OPERATIONS Mobilization of drill rig \$600.00 each Logger Truck \$68.01 per day 3 in. Thin wall Shelby Tube sampling \$24.40 per ft Hollow Stem Drilling \$30.89 per ft NX Rock Coring (shale) \$40.31 per ft NX Rock Coring (limestone) \$53.04 per ft Standard Penetration Testing (SPT) \$29.92 per test TCP with intermittent sampling \$32.88 per test Bentonite Backfill \$7.00 per ft Standard Pavement Coring \$93.05 each Concrete/AC patch \$79.38 each Standard Venetration Testing (SPT) \$29.92 per hy LABORATORY TESTING  Atterberg Limits \$125.84 each Standard Venetration Rock Of Sieve Analysis (passing No. 200) \$70.75 each Sieve Analysis (passing No. 4, 40, 200) \$120.04 each Sulfate Testing \$125.12 each Unconfined Compression (Soil) \$75.46 each Unconfined Compression (Rock) \$75.46 each Consolidated Undrained (CU) Triaxial Comp Test \$1,925 each Lime Series (Tex-121-E Part III) \$452.33 each California Bearing Ratio (ASTM D 1833) includes moisture-density relationship test and 3 test specimens \$1,011.05 each includes moisture-density relationship test and 3 test specimens	Project Engineer	\$159.12	
Geotechnical Logger \$119.02  Senior Geotech Technician \$91.80  Geotech Technician \$77.22  Geotech Laboratory Technician \$82.74  Geologist \$154.02  Senior GIS Technician \$104.81  CADD Technician \$104.81  Administrative Coordinator \$71.40  FIELD OPERATIONS  Mobilization of drill rig \$600.00 each Logger Truck \$68.01 per day 3 in. Thin wall Shelby Tube sampling \$30.89 per ft NX Rock Coring (shale) \$40.31 per ft NX Rock Coring (limestone) \$53.04 per ft Standard Penetration Testing (SPT) \$29.92 per test TCP with intermittent sampling \$32.88 per test Bentonite Backfill \$7.00 per ft Standard Pavement Coring \$93.05 each Concrete/AC patch \$79.38 each Standard Pavement Coring \$284.29 per hr LABORATORY TESTING  Atterberg Limits \$125.84 each Moisture Content \$16.65 each Sieve Analysis (passing No. 200) \$70.75 each Sieve Analysis (passing No. 4, 40, 200) \$120.04 each SUlfate Testing \$125.12 each Unconfined Compression (Soil) \$60.06 each Unconfined Compression (Rock) \$75.46 each Direct Shear \$650.18 each Consolidated Undrained (CU) Triaxial Comp Test \$1,925 each Lime Series (Tex-121-E Part III) \$452.33 each Consolidated Undrained (CU) Triaxial Comp Test \$1,925 each Lime Series (Tex-121-E Part III) \$452.33 each California Bearing Ratio (ASTM D 1833) includes moisture-density relationship test and 3 test specimens \$1,011.05 each includes moisture-density relationship test and 3 test specimens	Design Engineer	\$182.03	
Senior Geotech Technician \$91.80 Geotech Technician \$77.22 Geotech Laboratory Technician \$82.74 Geologist \$154.02 Senior GIS Technician \$10.16 CADD Technician \$104.81 Administrative Coordinator \$71.40  FIELD OPERATIONS Mobilization of drill rig \$600.00 each Logger Truck \$68.01 per day 3 in. Thin wall Shelby Tube sampling \$30.89 per ft NX Rock Coring (shale) \$40.31 per ft NX Rock Coring (limestone) \$53.04 per ft Standard Penetration Testing (SPT) \$29.92 per test TCP with intermittent sampling \$32.88 per test Bentonite Backfill \$7.00 per ft Standard Pavement Coring \$93.05 each Concrete/AC patch \$79.38 each Standby (setup time and cleanup) \$284.29 per hr LABORATORY TESTING  Atterberg Limits \$125.84 each Moisture Content \$16.65 each Sieve Analysis (passing No. 200) \$70.75 each Sieve Analysis (passing No. 4, 40, 200) \$120.04 each Sulfate Testing Unconfined Compression (Soil) \$60.06 each Unconfined Compression (Rock) \$75.46 each Direct Shear \$650.18 each Consolidated Undrained (CU) Triaxial Comp Test \$1,925 each Lime Series (Tex-121-E Part III) \$452.33 each Consolidated Undrained (CU) Triaxial Comp Test \$1,925 each Lime Series (Tex-121-E Part III) \$452.33 each California Bearing Ratio (ASTM D 1833) includes moisture-density relationship test and 3 test specimens \$1,011.05 each includes moisture-density relationship test and 3 test specimens	EIT	\$146.07	
Geotech Technician \$77.22  Geotech Laboratory Technician \$82.74  Geologist \$154.02  Senior GIS Technician \$110.16  CADD Technician \$110.16  CADD Technician \$104.81  Administrative Coordinator \$71.40  FIELD OPERATIONS  Mobilization of drill rig \$600.00 each Logger Truck \$68.01 per day 3 in. Thin wall Shelby Tube sampling \$24.40 per ft Hollow Stem Drilling \$30.89 per ft NX Rock Coring (shale) \$40.31 per ft NX Rock Coring (shale) \$40.31 per ft Standard Penetration Testing (SPT) \$29.92 per test TCP with intermittent sampling \$32.88 per test Standard Penetration Testing (SPT) \$29.92 per test TCP with intermittent sampling \$32.88 per test Standard Pavement Coring \$93.05 each Concrete/AC patch \$79.38 each Standby (setup time and cleanup) \$284.29 per hr  LABORATORY TESTING  Atterberg Limits \$125.84 each Moisture Content \$16.65 each Sieve Analysis (passing No. 200) \$120.04 each Sulfate Testing \$125.12 each Unconfined Compression (Soil) \$60.06 each Unconfined Compression (Rock) \$75.46 each Direct Shear \$650.18 each Consolidated Undrained (CU) Triaxial Comp Test \$1,925 each Lime Series (Tex-121-E Part III) \$452.33 each Moisture Denisty Relationship (TEX-117-E) \$2,200 each California Bearing Ratio (ASTM D 1833) includes moisture-density relationship test and 3 test specimens \$1,011.05 each includes moisture-density relationship test and 3 test specimens	Geotechnical Logger	\$119.02	
Geotech Laboratory Technician  Geologist  Senior GIS Technician  CADD Technician  Administrative Coordinator  FIELD OPERATIONS  Mobilization of drill rig  Logger Truck  3 in. Thin wall Shelby Tube sampling  Standard Penetration (SPT)  Standard Penetration Testing (SPT)  TCP with intermittent sampling  Standard Pavement Coring  Concrete/AC patch  Standard Pavement Coring  Concrete/AC patch  Standby (setup time and cleanup)  Atterberg Limits  Moisture Content  Sieve Analysis (passing No. 200)  Sieve Analysis (passing No. 4, 40, 200)  Sulfate Testing  Unconfined Compression (Rock)  Direct Shear  Consolidated Undrained (CU) Triaxial Comp Test  Lime Series (Tex-117-E)  Laboratory Laboratory Laboratory Specimens  \$ 1,011.05 each  Standard Penisty Relationship test and 3 test specimens  \$ 1,011.05 each	Senior Geotech Technician	\$91.80	
Geologist \$154.02 Senior GIS Technician \$110.16 CADD Technician \$104.81 Administrative Coordinator \$71.40  FIELD OPERATIONS  Mobilization of drill rig \$600.00 each Logger Truck \$68.01 per day 3 in. Thin wall Shelby Tube sampling \$24.40 per ft Hollow Stem Drilling \$30.89 per ft NX Rock Coring (shale) \$40.31 per ft NX Rock Coring (shale) \$53.04 per ft Standard Penetration Testing (SPT) \$29.92 per test TCP with intermittent sampling \$32.88 per test Bentonite Backfill \$7.00 per ft Standard Pavement Coring \$93.05 each Concrete/AC patch \$79.38 each Standby (setup time and cleanup) \$284.29 per hr  LABORATORY TESTING  Atterberg Limits \$125.84 each Moisture Content \$16.65 each Sieve Analysis (passing No. 200) \$70.75 each Sulfate Testing \$125.12 each Unconfined Compression (Rock) \$75.46 each Direct Shear \$650.18 each Consolidated Undrained (CU) Triaxial Comp Test \$1,925 each Lime Series (Tex-121-E Part III) \$452.33 each Consolidated Undrained (CU) Triaxial Comp Test \$1,925 each Lime Series (Tex-121-E Part III) \$452.33 each Consolidated Undrained (CU) Triaxial Comp Test \$1,925 each Lime Series (Tex-121-E Part III) \$452.33 each Consolidated Undrained (CU) Triaxial Comp Test \$1,925 each Lime Series (Tex-121-E Part III) \$452.33 each Consolidated Undrained (CU) Triaxial Comp Test \$1,925 each Lime Series (Tex-121-E Part III) \$452.33 each Consolidated Undrained (CU) Triaxial Comp Test \$1,925 each Lime Series (Tex-121-E Part III) \$452.33 each Consolidated Undrained (CU) Triaxial Comp Test \$1,925 each Lime Series (Tex-121-E Part III) \$452.33 each Consolidated Undrained (CU) Triaxial Comp Test \$1,925 each Lime Series (Tex-121-E Part III) \$452.33 each Consolidated Undrained (CU) Triaxial Comp Test \$1,925 each Lime Series (Tex-121-E Part III) \$452.33 each Consolidated Undrained (CU) Triaxial Comp Test \$1,925 each Lime Series (Tex-121-E Part III) \$452.33 each Consolidated Undrained (CU) Triaxial Comp Test \$1,925 each Lime Series (Tex-121-E Part III) \$452.33 each Consolidated Undrained (CU) Triaxial Comp Test \$1,925 each Lime Series (	Geotech Technician	\$77.22	
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Administrative Coordinator \$71.40  FIELD OPERATIONS  Mobilization of drill rig \$600.00 each Logger Truck \$68.01 per day 3 in. Thin wall Shelby Tube sampling \$24.40 per ft Hollow Stem Drilling \$30.89 per ft NX Rock Coring (shale) \$40.31 per ft NX Rock Coring (shale) \$53.04 per ft Standard Penetration Testing (SPT) \$29.92 per test TCP with intermittent sampling \$32.88 per test TCP with intermittent sampling \$32.88 per test Standard Pavement Coring \$93.05 each Concrete/AC patch \$79.38 each Standby (setup time and cleanup) \$284.29 per hr LABORATORY TESTING  Atterberg Limits \$125.84 each Moisture Content \$16.65 each Sieve Analysis (passing No. 200) \$70.75 each Sieve Analysis (passing No. 4, 40, 200) \$120.04 each Sulfate Testing \$125.12 each Unconfined Compression (Soil) \$60.06 each Unconfined Compression (Rock) \$75.46 each Direct Shear \$650.18 each Consolidated Undrained (CU) Triaxial Comp Test \$1,925 each Lime Series (Tex-121-E Part III) \$452.33 each Moisture Denisty Relationship (TEX-114-E) \$2,200 each California Bearing Ratio (ASTM D 1833) includes moisture-density relationship test and 3 test specimens	Geologist	\$154.02	
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FIELD OPERATIONS  Mobilization of drill rig \$600.00 each Logger Truck \$68.01 per day 3 in. Thin wall Shelby Tube sampling \$24.40 per ft Hollow Stem Drilling \$30.89 per ft NX Rock Coring (shale) \$40.31 per ft NX Rock Coring (limestone) \$53.04 per ft Standard Penetration Testing (SPT) \$29.92 per test TCP with intermittent sampling \$32.88 per test Bentonite Backfill \$7.00 per ft Standard Pavement Coring \$93.05 each Concrete/AC patch \$79.38 each Standby (setup time and cleanup) \$284.29 per hr LABORATORY TESTING  Atterberg Limits \$125.84 each Moisture Content \$16.65 each Sieve Analysis (passing No. 200) \$70.75 each Sieve Analysis (passing No. 4, 40, 200) \$120.04 each Sulfate Testing \$125.12 each Unconfined Compression (Rock) \$75.46 each Direct Shear \$650.18 each Consolidated Undrained (CU) Triaxial Comp Test \$1,925 each Lime Series (Tex-121-E Part III) \$452.33 each Moisture Denisty Relationship (TEX-114-E) \$350.45 each Texas Triaxial Compression (TEX-117-E) \$2,200 each California Bearing Ratio (ASTM D 1833) includes moisture-density relationship test and 3 test specimens	CADD Technician	\$104.81	
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Logger Truck 3 in. Thin wall Shelby Tube sampling \$ 24.40 per ft Hollow Stem Drilling \$ 30.89 per ft NX Rock Coring (shale) \$ 40.31 per ft NX Rock Coring (limestone) \$ 53.04 per ft Standard Penetration Testing (SPT) \$ 29.92 per test TCP with intermittent sampling \$ 32.88 per test Bentonite Backfill \$ 7.00 per ft Standard Pavement Coring \$ 93.05 each Concrete/AC patch \$ 79.38 each Standby (setup time and cleanup) \$ 284.29 per hr  LABORATORY TESTING  Atterberg Limits \$ 125.84 each Moisture Content Sieve Analysis (passing No. 200) \$ 70.75 each Sieve Analysis (passing No. 4, 40, 200) \$ 120.04 each Sulfate Testing \$ 125.12 each Unconfined Compression (Soil) \$ 60.06 each Unconfined Compression (Rock) \$ 75.46 each Direct Shear \$ 650.18 each Consolidated Undrained (CU) Triaxial Comp Test Lime Series (Tex-121-E Part III) \$ 452.33 each Moisture Denisty Relationship (TEX-114-E) \$ 350.45 each California Bearing Ratio (ASTM D 1833) includes moisture-density relationship test and 3 test specimens	FIELD OPERATIONS		
3 in. Thin wall Shelby Tube sampling \$24.40 per ft Hollow Stem Drilling \$30.89 per ft NX Rock Coring (shale) \$40.31 per ft NX Rock Coring (limestone) \$53.04 per ft Standard Penetration Testing (SPT) \$29.92 per test TCP with intermittent sampling \$32.88 per test Bentonite Backfill \$7.00 per ft Standard Pavement Coring \$93.05 each Concrete/AC patch \$79.38 each Standby (setup time and cleanup) \$284.29 per hr  LABORATORY TESTING  Atterberg Limits \$125.84 each Moisture Content \$16.65 each Sieve Analysis (passing No. 200) \$70.75 each Sieve Analysis (passing No. 4, 40, 200) \$120.04 each Sulfate Testing \$125.12 each Unconfined Compression (Soil) \$60.06 each Unconfined Compression (Rock) \$75.46 each Direct Shear \$650.18 each Consolidated Undrained (CU) Triaxial Comp Test \$1,925 each Lime Series (Tex-121-E Part III) \$452.33 each Moisture Denisty Relationship (TEX-114-E) \$2,200 each California Bearing Ratio (ASTM D 1833) includes moisture-density relationship test and 3 test specimens	Mobilization of drill rig	\$ 600.00 each	
Hollow Stem Drilling \$ 30.89 per ft  NX Rock Coring (shale) \$ 40.31 per ft  NX Rock Coring (limestone) \$ 53.04 per ft  Standard Penetration Testing (SPT) \$ 29.92 per test  TCP with intermittent sampling \$ 32.88 per test  Bentonite Backfill \$ 7.00 per ft  Standard Pavement Coring \$ 93.05 each  Concrete/AC patch \$ 79.38 each  Standby (setup time and cleanup) \$ 284.29 per hr  LABORATORY TESTING  Atterberg Limits \$ 125.84 each  Moisture Content \$ 16.65 each  Sieve Analysis (passing No. 200) \$ 70.75 each  Sieve Analysis (passing No. 4, 40, 200) \$ 120.04 each  Sulfate Testing \$ 125.12 each  Unconfined Compression (Soil) \$ 60.06 each  Unconfined Compression (Rock) \$ 75.46 each  Direct Shear \$ 650.18 each  Consolidated Undrained (CU) Triaxial Comp Test \$ 1,925 each  Lime Series (Tex-121-E Part III) \$ 452.33 each  Moisture Denisty Relationship (TEX-114-E) \$ 350.45 each  Texas Triaxial Compression (TEX-117-E) \$ 2,200 each  California Bearing Ratio (ASTM D 1833) includes moisture-density relationship test and 3 test specimens	Logger Truck	\$ 68.01 per day	
NX Rock Coring (shale)  NX Rock Coring (limestone)  Standard Penetration Testing (SPT)  Standard Pavement Sampling  Standard Pavement Coring  Standard Pavement Coring  Standard Pavement Coring  Standard Pavement Coring  Standby (setup time and cleanup)  Standard Pavement Coring  Standard Pavement Standard Pavement  Standard Pavement Coring  Standard Pavement Standard Pavement  Standard Pavement Coring  Standard Pavement Standard Pavement  Standard Pavement Coring  Standard Pavement Standard Pavement Standard Pavement Standard Pavement Standard Pa	3 in. Thin wall Shelby Tube sampling	\$ 24.40 per ft	
NX Rock Coring (limestone)  Standard Penetration Testing (SPT)  TCP with intermittent sampling  \$ 32.88 per test  Bentonite Backfill  \$ 7.00 per ft  Standard Pavement Coring  \$ 93.05 each  Concrete/AC patch  \$ 79.38 each  Standby (setup time and cleanup)  **LABORATORY TESTING**  Atterberg Limits  Atterberg Limits  \$ 125.84 each  Moisture Content  Sieve Analysis (passing No. 200)  \$ 70.75 each  Sieve Analysis (passing No. 4, 40, 200)  \$ 120.04 each  Sulfate Testing  \$ 125.12 each  Unconfined Compression (Soil)  \$ 60.06 each  Unconfined Compression (Rock)  Direct Shear  Consolidated Undrained (CU) Triaxial Comp Test  Lime Series (Tex-121-E Part III)  \$ 452.33 each  Moisture Denisty Relationship (TEX-114-E)  \$ 2,200 each  California Bearing Ratio (ASTM D 1833)  includes moisture-density relationship test and 3 test specimens  \$ 1,011.05 each	Hollow Stem Drilling	\$ 30.89 per ft	
Standard Penetration Testing (SPT)  TCP with intermittent sampling  \$ 32.88 per test  Bentonite Backfill  \$ 7.00 per ft  Standard Pavement Coring  \$ 93.05 each  Concrete/AC patch  \$ 79.38 each  Standby (setup time and cleanup)  **EABORATORY TESTING**  Atterberg Limits  Atterberg Limits  \$ 125.84 each  Moisture Content  \$ 16.65 each  Sieve Analysis (passing No. 200)  \$ 70.75 each  Sieve Analysis (passing No. 4, 40, 200)  \$ 120.04 each  Sulfate Testing  \$ 125.12 each  Unconfined Compression (Soil)  \$ 60.06 each  Unconfined Compression (Rock)  Direct Shear  \$ 650.18 each  Consolidated Undrained (CU) Triaxial Comp Test  Lime Series (Tex-121-E Part III)  \$ 452.33 each  Moisture Denisty Relationship (TEX-114-E)  \$ 2,200 each  California Bearing Ratio (ASTM D 1833)  includes moisture-density relationship test and 3 test specimens  **Size Penets 18	NX Rock Coring (shale)	\$ 40.31 per ft	
TCP with intermittent sampling \$32.88 per test  Bentonite Backfill \$7.00 per ft  Standard Pavement Coring \$93.05 each  Concrete/AC patch \$79.38 each  Standby (setup time and cleanup) \$284.29 per hr  LABORATORY TESTING  Atterberg Limits \$125.84 each  Moisture Content \$16.65 each  Sieve Analysis (passing No. 200) \$70.75 each  Sieve Analysis (passing No. 4, 40, 200) \$120.04 each  Sulfate Testing \$125.12 each  Unconfined Compression (Soil) \$60.06 each  Unconfined Compression (Rock) \$75.46 each  Direct Shear \$650.18 each  Consolidated Undrained (CU) Triaxial Comp Test \$1,925 each  Lime Series (Tex-121-E Part III) \$452.33 each  Moisture Denisty Relationship (TEX-114-E) \$350.45 each  Texas Triaxial Compression (TEX-117-E) \$2,200 each  California Bearing Ratio (ASTM D 1833) includes moisture-density relationship test and 3 test specimens	NX Rock Coring (limestone)	\$ 53.04 per ft	
Bentonite Backfill \$7.00 per ft Standard Pavement Coring \$93.05 each Concrete/AC patch \$79.38 each Standby (setup time and cleanup) \$284.29 per hr  LABORATORY TESTING  Atterberg Limits \$125.84 each Moisture Content \$16.65 each Sieve Analysis (passing No. 200) \$70.75 each Sieve Analysis (passing No. 4, 40, 200) \$120.04 each Sulfate Testing \$125.12 each Unconfined Compression (Soil) \$60.06 each Unconfined Compression (Rock) \$75.46 each Direct Shear \$650.18 each Consolidated Undrained (CU) Triaxial Comp Test \$1,925 each Lime Series (Tex-121-E Part III) \$452.33 each Moisture Denisty Relationship (TEX-114-E) \$350.45 each Texas Triaxial Compression (TEX-117-E) \$2,200 each California Bearing Ratio (ASTM D 1833) includes moisture-density relationship test and 3 test specimens	Standard Penetration Testing (SPT)	\$ 29.92 per test	
Standard Pavement Coring  Concrete/AC patch  Standby (setup time and cleanup)  LABORATORY TESTING  Atterberg Limits  Atterberg Limits  Moisture Content  Sieve Analysis (passing No. 200)  Sieve Analysis (passing No. 4, 40, 200)  Sieve Analysis (passing No. 200)  Sieve Analysis (passi	TCP with intermittent sampling	\$ 32.88 per test	
Concrete/AC patch \$ 79.38 each Standby (setup time and cleanup) \$ 284.29 per hr  LABORATORY TESTING  Atterberg Limits \$ 125.84 each Moisture Content \$ 16.65 each Sieve Analysis (passing No. 200) \$ 70.75 each Sieve Analysis (passing No. 4, 40, 200) \$ 120.04 each Sulfate Testing \$ 125.12 each Unconfined Compression (Soil) \$ 60.06 each Unconfined Compression (Rock) \$ 75.46 each Direct Shear \$ 650.18 each Consolidated Undrained (CU) Triaxial Comp Test \$ 1,925 each Lime Series (Tex-121-E Part III) \$ 452.33 each Moisture Denisty Relationship (TEX-114-E) \$ 350.45 each Texas Triaxial Compression (TEX-117-E) \$ 2,200 each California Bearing Ratio (ASTM D 1833) includes moisture-density relationship test and 3 test specimens	Bentonite Backfill	\$ 7.00 per ft	
Standby (setup time and cleanup)  LABORATORY TESTING  Atterberg Limits  Atterberg Limits  S 125.84 each  Moisture Content  Sieve Analysis (passing No. 200)  Sieve Analysis (passing No. 4, 40, 200)  Sieve Analysis (passing No. 4, 40, 200)  Sulfate Testing  Unconfined Compression (Soil)  Unconfined Compression (Rock)  Direct Shear  Consolidated Undrained (CU) Triaxial Comp Test  Lime Series (Tex-121-E Part III)  Moisture Denisty Relationship (TEX-114-E)  Texas Triaxial Compression (TEX-117-E)  California Bearing Ratio (ASTM D 1833)  includes moisture-density relationship test and 3 test specimens  \$ 1,011.05 each	Standard Pavement Coring	\$ 93.05 each	
Atterberg Limits \$ 125.84 each Moisture Content \$ 16.65 each Sieve Analysis (passing No. 200) \$ 70.75 each Sieve Analysis (passing No. 4, 40, 200) \$ 120.04 each Sulfate Testing \$ 125.12 each Unconfined Compression (Soil) \$ 60.06 each Unconfined Compression (Rock) \$ 75.46 each Direct Shear \$ 650.18 each Consolidated Undrained (CU) Triaxial Comp Test \$ 1,925 each Lime Series (Tex-121-E Part III) \$ 452.33 each Moisture Denisty Relationship (TEX-114-E) \$ 350.45 each Texas Triaxial Compression (TEX-117-E) \$ 2,200 each California Bearing Ratio (ASTM D 1833) \$ 1,011.05 each	Concrete/AC patch	\$ 79.38 each	
Atterberg Limits \$ 125.84 each  Moisture Content \$ 16.65 each  Sieve Analysis (passing No. 200) \$ 70.75 each  Sieve Analysis (passing No. 4, 40, 200) \$ 120.04 each  Sulfate Testing \$ 125.12 each  Unconfined Compression (Soil) \$ 60.06 each  Unconfined Compression (Rock) \$ 75.46 each  Direct Shear \$ 650.18 each  Consolidated Undrained (CU) Triaxial Comp Test \$ 1,925 each  Lime Series (Tex-121-E Part III) \$ 452.33 each  Moisture Denisty Relationship (TEX-114-E) \$ 350.45 each  Texas Triaxial Compression (TEX-117-E) \$ 2,200 each  California Bearing Ratio (ASTM D 1833) \$ 1,011.05 each	Standby (setup time and cleanup)	\$ 284.29 per hr	
Moisture Content  Sieve Analysis (passing No. 200)  Sieve Analysis (passing No. 4, 40, 200)  Sieve Analysis (passing No. 4, 40, 200)  \$ 120.04 each  Sulfate Testing  \$ 125.12 each  Unconfined Compression (Soil)  \$ 60.06 each  Unconfined Compression (Rock)  \$ 75.46 each  Direct Shear  \$ 650.18 each  Consolidated Undrained (CU) Triaxial Comp Test  \$ 1,925 each  Lime Series (Tex-121-E Part III)  \$ 452.33 each  Moisture Denisty Relationship (TEX-114-E)  \$ 350.45 each  Texas Triaxial Compression (TEX-117-E)  \$ 2,200 each  California Bearing Ratio (ASTM D 1833)  includes moisture-density relationship test and 3 test specimens	LABORATORY TESTING		
Sieve Analysis (passing No. 200) \$ 70.75 each Sieve Analysis (passing No. 4, 40, 200) \$ 120.04 each Sulfate Testing \$ 125.12 each Unconfined Compression (Soil) \$ 60.06 each Unconfined Compression (Rock) \$ 75.46 each Direct Shear \$ 650.18 each Consolidated Undrained (CU) Triaxial Comp Test \$ 1,925 each Lime Series (Tex-121-E Part III) \$ 452.33 each Moisture Denisty Relationship (TEX-114-E) \$ 350.45 each Texas Triaxial Compression (TEX-117-E) \$ 2,200 each California Bearing Ratio (ASTM D 1833) \$ 1,011.05 each	Atterberg Limits	\$ 125.84 each	
Sieve Analysis (passing No. 4, 40, 200) \$ 120.04 each Sulfate Testing \$ 125.12 each Unconfined Compression (Soil) \$ 60.06 each Unconfined Compression (Rock) \$ 75.46 each Direct Shear \$ 650.18 each Consolidated Undrained (CU) Triaxial Comp Test \$ 1,925 each Lime Series (Tex-121-E Part III) \$ 452.33 each Moisture Denisty Relationship (TEX-114-E) \$ 350.45 each Texas Triaxial Compression (TEX-117-E) \$ 2,200 each California Bearing Ratio (ASTM D 1833) \$ 1,011.05 each	Moisture Content	\$ 16.65 each	
Sulfate Testing \$ 125.12 each Unconfined Compression (Soil) \$ 60.06 each Unconfined Compression (Rock) \$ 75.46 each Direct Shear \$ 650.18 each Consolidated Undrained (CU) Triaxial Comp Test \$ 1,925 each Lime Series (Tex-121-E Part III) \$ 452.33 each Moisture Denisty Relationship (TEX-114-E) \$ 350.45 each Texas Triaxial Compression (TEX-117-E) \$ 2,200 each California Bearing Ratio (ASTM D 1833) \$ 1,011.05 each	Sieve Analysis (passing No. 200)	\$ 70.75 each	
Sulfate Testing \$ 125.12 each Unconfined Compression (Soil) \$ 60.06 each Unconfined Compression (Rock) \$ 75.46 each Direct Shear \$ 650.18 each Consolidated Undrained (CU) Triaxial Comp Test \$ 1,925 each Lime Series (Tex-121-E Part III) \$ 452.33 each Moisture Denisty Relationship (TEX-114-E) \$ 350.45 each Texas Triaxial Compression (TEX-117-E) \$ 2,200 each California Bearing Ratio (ASTM D 1833) \$ 1,011.05 each	Sieve Analysis (passing No. 4, 40, 200)	\$ 120.04 each	
Unconfined Compression (Rock) \$ 75.46 each  Direct Shear \$ 650.18 each  Consolidated Undrained (CU) Triaxial Comp Test \$ 1,925 each  Lime Series (Tex-121-E Part III) \$ 452.33 each  Moisture Denisty Relationship (TEX-114-E) \$ 350.45 each  Texas Triaxial Compression (TEX-117-E) \$ 2,200 each  California Bearing Ratio (ASTM D 1833) \$ 1,011.05 each	Sulfate Testing	\$ 125.12 each	
Direct Shear \$650.18 each  Consolidated Undrained (CU) Triaxial Comp Test \$1,925 each  Lime Series (Tex-121-E Part III) \$452.33 each  Moisture Denisty Relationship (TEX-114-E) \$350.45 each  Texas Triaxial Compression (TEX-117-E) \$2,200 each  California Bearing Ratio (ASTM D 1833) \$1,011.05 each  includes moisture-density relationship test and 3 test specimens	Unconfined Compression (Soil)	\$ 60.06 each	
Consolidated Undrained (CU) Triaxial Comp Test \$ 1,925 each Lime Series (Tex-121-E Part III) \$ 452.33 each Moisture Denisty Relationship (TEX-114-E) \$ 350.45 each Texas Triaxial Compression (TEX-117-E) \$ 2,200 each California Bearing Ratio (ASTM D 1833) \$ 1,011.05 each	Unconfined Compression (Rock)	\$ 75.46 each	
Lime Series (Tex-121-E Part III) \$ 452.33 each  Moisture Denisty Relationship (TEX-114-E) \$ 350.45 each  Texas Triaxial Compression (TEX-117-E) \$ 2,200 each  California Bearing Ratio (ASTM D 1833) \$ 1,011.05 each  includes moisture-density relationship test and 3 test specimens	Direct Shear	\$ 650.18 each	
Moisture Denisty Relationship (TEX-114-E) \$ 350.45 each Texas Triaxial Compression (TEX-117-E) \$ 2,200 each California Bearing Ratio (ASTM D 1833) \$ 1,011.05 each includes moisture-density relationship test and 3 test specimens	Consolidated Undrained (CU) Triaxial Comp Test	\$ 1,925 each	
Moisture Denisty Relationship (TEX-114-E) \$ 350.45 each Texas Triaxial Compression (TEX-117-E) \$ 2,200 each California Bearing Ratio (ASTM D 1833) \$ 1,011.05 each includes moisture-density relationship test and 3 test specimens	Lime Series (Tex-121-E Part III)	\$ 452.33 each	
Texas Triaxial Compression (TEX-117-E) \$ 2,200 each California Bearing Ratio (ASTM D 1833) \$ 1,011.05 each includes moisture-density relationship test and 3 test specimens	Moisture Denisty Relationship (TEX-114-E)		
California Bearing Ratio (ASTM D 1833) \$ 1,011.05 each includes moisture-density relationship test and 3 test specimens	Texas Triaxial Compression (TEX-117-E)	\$ 2,200 each	
	California Bearing Ratio (ASTM D 1833)		
Fach additional shedimen	Each additional specimen	\$ 220.20 each	

## Exhibit D

New Subconsultant

dss+ LIBERTY HILL BYPASS - SEGMENT 3	
	RATE SCHEDULE IN PSA EXHIBIT D (per hour)
Project Manager	\$258.32
Sr. Systems Safety Engineer	\$228.99
Systems Safety Engineer	\$200.74