

**EXHIBIT**

**“A”**

STATE OF TEXAS

§

§

COUNTY OF WILLIAMSON

§

**SUPPLEMENTAL CONTRACT NO. 5  
TO CONTRACT FOR ENGINEERING SERVICES**

**FIRM:** **FREESE AND NICHOLS, INC.** (“Engineer”)  
**ADDRESS:** **10431 Morado Circle, Suite 300, Bldg. 5, Austin, TX 78759**  
**PROJECT:** **Chisholm Trail South Improvements (Old Town)**

This Supplemental Contract No. 5 to Contract for Engineering Services is made by and between the City of Round Rock, Texas, hereinafter called the “City” and Freese and Nichols, Inc., hereinafter called the “Engineer.”

**WHEREAS**, the City and Engineer executed a Contract for Engineering Services, hereinafter called the “Contract,” on the 24th day of March, 2022 for the Chisholm Trail South Improvements (Old Town) Project in the amount of \$389,055.00; and

**WHEREAS**, the City and Engineer executed Supplemental Contract No. 1 on October, 14, 2022 to amend the Contract to modify the provisions for the scope of services, work schedule, and fee schedule; and

**WHEREAS**, the City and Engineer executed Supplemental Contract No. 2 on June 8, 2023 to amend the scope of services and to increase the compensation by \$584,885.00 to a total of \$973,940.00; and

**WHEREAS**, the City and Engineer executed Supplemental Contract No. 3 on March 8, 2024 to amend the scope of services and to increase the compensation by \$49,679.00 to a total of \$1,023,619.00; and

**WHEREAS**, the City and Engineer executed Supplemental Contract No. 4 on November 18, 2024 to amend the scope of services and to increase the compensation by \$49,934.00 to a total of \$1,073,553.00; and

**WHEREAS**, it has become necessary to amend the Contract to modify the provisions for the scope of services and to increase the compensation by \$145,470.00 to a total of \$1,219,023.00;

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

I.

Article 1, City Services and Exhibit A, City Services shall be amended as set forth in the attached Addendum To Exhibit A.

II.

Article 2, Engineering Services and Exhibit B, Engineering Services shall be amended as set forth in the attached Addendum to Exhibit B. Exhibit C, Work Schedule shall be amended as set forth in the attached Addendum to Exhibit C.

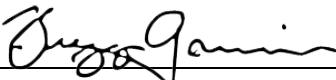
III.

Article 4, Compensation and Exhibit D, Fee Schedule shall be amended by increasing by \$145,470.00 the lump sum amount payable under the Contract for a total of \$1,219,023.00, as shown by the attached Addendum to Exhibit D.

**IN WITNESS WHEREOF**, the City and the Engineer have executed this Supplemental Contract in duplicate.

*[signature pages follow]*

**FREESE AND NICHOLS, INC.**

By:   
Bregger Garrison, Principal/Vice President

4/28/25  
**Date**

**CITY OF ROUND ROCK**

**APPROVED AS TO FORM:**

**By:** \_\_\_\_\_  
**Craig Morgan, Mayor**

\_\_\_\_\_  
**Stephanie L. Sandre, City Attorney**

\_\_\_\_\_  
**Date**

## **ADDENDUM TO EXHIBIT A**

### **City Services**

The **CITY OF ROUND ROCK** ("CITY") is proposing to develop a 0.44 mi segment of Chisholm Trail Road between Sam Bass Road and RM 620. The work to be performed under this work authorization by **FREESE AND NICHOLS, INC.** ("CONSULTANT") will consist of the preliminary engineering and modeling to assess the Brushy Creek floodplain impacts and obtain environmental clearance for the proposed upstream culvert extension at the low water crossing. Additionally, design will be prepared to incorporate a sidewalk connection from Sunset Dr to the existing Heritage Trail pedestrian bridge into the existing Chisholm Trail Road construction contract.

City services will remain unchanged with this amendment.

## **ADDENDUM TO EXHIBIT B**

### **Engineering Services**

The **CITY OF ROUND ROCK** (“CITY”) is proposing to develop a 0.44 mi segment of Chisholm Trail Road between Sam Bass Road and RM 620. The work to be performed under this work authorization by **FREESE AND NICHOLS, INC.** (“CONSULTANT”) will consist of the preliminary engineering and modeling to assess the Brushy Creek floodplain impacts and obtain environmental clearance for the proposed upstream culvert extension at the low water crossing. Additionally, design will be prepared to incorporate a sidewalk connection from Sunset Dr to the existing Heritage Trail pedestrian bridge into the existing Chisholm Trail Road construction contract.

#### **110.0 ROUTE AND DESIGN STUDIES**

1. The CONSULTANT shall evaluate a culvert extension to provide pedestrian crossing on the west side of Chisholm Trail Road over Brushy Creek, including preliminary coordination with the CITY Floodplain Administrator (FPA) for conceptual buy-off.
2. The CONSULTANT shall coordinate with pedestrian rail manufacturers to identify and evaluate potential products for project use.

#### **120.0 SOCIAL/ECON/ENVIRON STUDIES**

1. The CONSULTANT will complete additional coordination with the adjacent post office for the Chisholm Trail South project and utility providers in preparation for construction activities. The CONSULTANT will prepare one (1) additional exhibit for post office coordination.

#### **2. Habitat Assessment and Ordinary High Water Mark (OHWM) Delineation**

The CONSULTANT will conduct one (1) site visit of the proposed project area to gather necessary data and photographs towards the development of a U.S. Army Corps of Engineers (USACE) permit application, including a habitat assessment and delineation of the OHWM of Brushy Creek. The site visit and delineation will be used to develop the Waters of the US (WOTUS) report and quantify the amount of fill below the OHWM.

Assumptions:

- The preliminary environmental evaluation will include a desktop-level review and one (1) field site visit of potential environmental constraints and regulatory requirements.

#### **3. USACE Permitting**

Based on knowledge gained from Task 1, FNI will develop the appropriate permit application to be submitted to the USACE for discharges of fill within WOTUS associated with construction of the project, which is a regulated activity under Section 404 of the Clean Water Act. A Pre-application Meeting with the USACE is recommended to discuss the project with a Corp project manager and establish a permitting approach. After a permitting approach is confirmed by USACE, the CONSULTANT will begin work on the Nationwide Permit with a Pre-construction Notification application package. The application package consists of several components, including the following:

- ENG 6082 or 4345 Form – discloses the applicant’s and project’s information, such as project need and purpose, project location, adjoining properties, etc.
- Representative Photographs – depicts the pre-project conditions.

## Services to be Provided by Consultant – Chisholm Trail South (Old Town) Improvements

- Waters of the US Delineation Report – identifies the presence and extent of regulated waters and identifies the regulated fill discharges that would occur with the proposed project. GIS figures showing the project extent and design components would be developed to accompany the report.
- Federally listed Species Habitat Assessment report – The CONSULTANT will prepare a threatened and endangered species habitat assessment report to document the findings from the desktop review including recommended effect determinations for each species. The draft report will be provided to the City for review and comment.
- Plan and Profile Drawings – clear, concise, and simple drawings developed in the plan set by the CONSULTANT will be included and will identify the regulated fill discharges associated with the project.
- Section 401 Water Quality Certification Checklist (for the Texas Commission on Environmental Quality) – documents the proposed Best Management Plans (BMPs) during construction to maintain water quality standards for demonstrating compliance with Section 401 of the Clean Water Act.
- Cultural Resource Evaluation – desktop survey for previously documented cultural resources in the project area, for demonstrating compliance with Antiquities Code of Texas and Section 106 of the National Historic Preservation Act. A letter documenting the cultural resource evaluation will be submitted to the Texas Historic Commission (THC) for review by the State Historic Preservation Officer (SHPO). The THC's concurrence regarding Antiquities Code of Texas and Section 106 of the National Historic Preservation Act will be included with the USACE permit application.

### Assumptions:

- The USACE would allow the project to be permitted under a Nationwide Permit (NWP) with a Pre-Construction Notification (PCN). If the USACE requires the project to be permitted under a Letter of Procedure (LOP) or Individual Permit (IP), then the effort to produce an LOP or IP application package could be covered with a cost amendment as an additional service.
- The Section 404 permit application cannot be submitted to the USACE until concurrence from the THC is received regarding Antiquities Code of Texas and Section 106 of the National Historic Preservation Act.
- Presence/absence surveys for federally listed or proposed species will not be required. If required by the USACE or USFWS, then this service could be covered with a cost amendment as an additional service.
- The USACE would not require any compensatory mitigation as a result of project impacts. If project impacts require mitigation, those services could be covered with a cost amendment as an additional service.
- The CONSULTANT will conduct a desktop investigation of cultural resources within 1 kilometer of the project area. The results and findings of the desktop cultural resource investigation will be submitted in a coordination letter to the THC. If an additional archeological survey is required by the THC for impacts to historical and archeological resources, then additional services can be provided with a scope and cost amendment.

### 4. Texas Commission on Environmental Quality (TCEQ) Edwards Aquifer Permitting

The CONSULTANT shall perform tasks related to compliance with Edwards Aquifer Protection Program (EAPP), which is regulated by TCEQ and related to Section 401 Water Quality Certification. Compliance with the EAPP is required for projects occurring within the Edwards Aquifer Recharge or Contributing Zones. The property is located within the boundary of the Edwards Aquifer Recharge Zone. Due to the increase in impervious cover for the Chisholm Trail Culvert project, a Water Pollution Abatement Plan (WPAP) will be required by the Edwards Aquifer Protection Program. Because of the minor amount of impervious cover proposed, the CONSULTANT assumes that a WPAP Exception Request can be utilized. The CONSULTANT will coordinate with the TCEQ EAPP for an Exception Request for the project.

### Assumption:

- A Geologic Assessment was performed for the Chisholm Trail South Improvements project in 2023 and that the Geologic Assessment report is still applicable for the WPAP, if required.

## 5. Fish Recovery and Relocation

Since the project will require dewatering of the creek, coordination with the Texas Parks and Wildlife Department (TPWD) to perform an aquatic resource recovery and relocation during dewatering of the cofferdam structure will be required. The CONSULTANT will coordinate with TPWD to receive the necessary permissions to perform the fish recovery and relocation. Access, safety, and schedule will be coordinated with the CITY and construction contractor. The CONSULTANT will notify TPWD Kills and Spills Team (KAST) biologist, Travis Tidwell, at least 72 hours prior to collecting and relocating organisms. Depending on the project size, the survey will be conducted by qualified biologists with seine nets, dip nets, and a backpack electrofishing device. The CONSULTANT will systematically search for and remove any live fish and mussels observed within the project area. Fish, mussels, and other aquatic organisms will be identified, enumerated, and representative photos will be taken of each species. A report will be drafted after the survey and will be provided to the CITY for one round of review and comment. The report will be delivered to the CITY for review and comments, and copies of the report will be sent to TPWD after final approval.

### Assumptions:

- This task does not include the additional effort or coordination required if a state or federally proposed or listed mussel species is observed within the survey area. This finding would result in a follow-up survey effort and additional coordination with the U.S. Fish and Wildlife Service (USFWS) and TPWD.
- The CONSULTANT assumes that the fish relocation can be conducted with one (1) site visit to the construction site once the dewatered area has been lowered to at least 1 foot. If additional site visits are required due to dewatering issues, then those additional relocation efforts may result in a cost amendment.

### Deliverables:

- Preliminary & Final Environmental Technical Memorandum (submitted with the 30% and 60% Designs)
- THC Coordination Letter
- Nationwide Permit Preconstruction Notification (PCN) Package
- WPAP Exception Request
- Aquatic Resource Relocation Permit and Reintroduction Permit
- Fish Recovery and Relocation Report

## 145.0 PROJECT MANAGEMENT

### 1. Project Coordination Services will include the following:

- The CONSULTANT will meet with the CITY as needed. For the purpose of scoping, a maximum of four (4) 1-hour virtual meetings, including agenda and meeting minute prep, are assumed with three (3) attendees. The CONSULTANT will prepare and distribute meeting agendas twenty-four (24) hours before the meeting. The CONSULTANT will prepare and distribute meeting minutes within three (3) business days of each meeting.
- The CONSULTANT will attend a Comment Resolution Meeting after the exhibit submittal to discuss review comments. For the purpose of scoping, a maximum of one (1) three (3) hour in-person meeting, including travel time and agenda and meeting minute prep, are assumed with three (3) attendees. The CONSULTANT will respond in writing to reviewer comments. Responses will include



explanations for any items in disagreement. The CONSULTANT will prepare and distribute meeting minutes within three (3) business days of each meeting.

- The CONSULTANT shall coordinate with the CITY's utility and parks groups to assess the proposed sidewalk connection and identify any potential conflicts.

2. Quality Assurance/Quality Control (QA/QC) Services will include the following:

- The CONSULTANT will perform QC measures for each deliverable.
- The CONSULTANT will complete QA checks throughout the project life cycle. QA documentation will be made available to the CITY upon request.

3. Project Administration Services will include the following:

- Each month for the duration of the project in excess of the current project schedule, the CONSULTANT will submit to the CITY its invoices for services completed and compensation due, arranged by task.
- Each month for the duration of the project, and included with the submission of each invoice, the CONSULTANT will submit a monthly report of the status of work performed through the end of the previous month. The CONSULTANT will summarize decisions or agreements made and will outline unresolved or pending issues requiring the CITY'S involvement or decision.
- The CONSULTANT will complete project administrative maintenance tasks and project set up.

## **160.0 ROADWAY DESIGN SERVICES**

1. The CONSULTANT will revise the issued for bid Roadway plan sheets to incorporate the proposed sidewalk connection and any associated changes to the roadway curb line and/or inlet throat extension.

Deliverables:

- Revised Roadway Plan and Quantity Summary Sheets

## **161.0 DRAINAGE DESIGN SERVICES**

The CONSULTANT shall provide hydraulic analysis and reporting for the extension of the Chisholm Trail box culverts over Brushy Creek to accommodate pedestrian facilities on the west (upstream) side of the crossing. The CONSULTANT will evaluate both the FEMA and Atlas 14 flow conditions and evaluate if a no-rise condition can be met with the proposed improvements.

1. Existing Conditions Hydraulic Analysis

- The CONSULTANT will utilize the Brushy Creek FEMA Effective HEC-RAS model and best available Atlas 14 HEC-RAS model provided by Williamson County. It is assumed the FEMA Effective model and Atlas 14 HEC-RAS model will be provided by the CITY.
- The Chisholm Trail bridge crossing and bounding cross-sections will be updated as necessary with the project survey obtained as part of the Chisholm Trail Improvement project. The upstream bounding cross-section will be adjusted if necessary to not conflict with the proposed culvert extension.
- No other improvements or adjustments to the HEC-RAS models are expected.

2. Proposed Conditions Hydraulic Analysis

- Two different models will be required. The FEMA Effective model with the effective FEMA flows and the Atlas 14 model, recently developed by Williamson County. Both models will be updated with the proposed Chisholm Trail culvert extension.
- In the Atlas 14 model, two conditions will be considered requiring two separate geometries. The first condition will include the 42" tall pedestrian rail and will simulate the higher frequency storms (2-, 5-, 10-, 25-yr). The second condition will remove the pedestrian rail, which will break away via shear pins, and simulate the lower frequency storms (50-, 100-, 500-yr).
- Proposed solutions will be developed, iterated, and modeled with the goal of reaching a no-rise condition in the FEMA and Atlas 14 100-yr and a no adverse impact solution in the higher frequency events.
- The model methods, approach, and results will be coordinated with the CITY FPA for agreement before the Draft Drainage Report. For the purpose of scoping, two (2) four (4) hour in-person meetings, including travel time and agenda and meeting minute prep is included for four (4) attendees.

### 3. Reporting

The CONSULTANT will develop a Drainage Report, which documents the methods and assumptions used for the hydraulic analysis. The report will document the general approach, iterations in the design, and the final results and recommendations.

#### Deliverables:

- Draft Drainage Report
- Final Drainage Report

#### Assumptions:

- No hydrologic analysis will be performed – FEMA or Atlas 14 flows will be used and no hydrology is required.
- No Conditional Letter of Map Revision (CLOMR) is required.
- PS&E document development shall be an additional service.

## **162.0 SIGNING AND PAVEMENT MARKINGS SERVICES**

1. The CONSULTANT will revise the issued for bid signing and pavement marking plan sheets to incorporate the proposed sidewalk connection.

#### Deliverables:

- Revised Signing and Pavement Markings Plan Sheets

## **163.0 MISCELLANEOUS (ROADWAY)**

### **163.1 TRAFFIC CONTROL PLAN DESIGN SERVICES**

1. The CONSULTANT will revise the issued for bid Traffic Control Plan (TCP) to incorporate the proposed sidewalk connection. The TCP will be revised in accordance with the most recent version of the Texas Manual of Uniform Traffic Control devices (TMUTCD).

#### Deliverables:

- Revised TCP Plan Sheets

**163.2 SUPPLEMENTAL PS&E DOCUMENTS**

1. The CONSULTANT will prepare an Opinion of Probable Construction Cost (OPCC) to summarize the changes to the existing construction contract.
2. The CONSULTANT will develop a plan view exhibit illustrating the proposed culvert extension and sidewalk connections across the creek. Vertical elevation data will not be included in the exhibit.

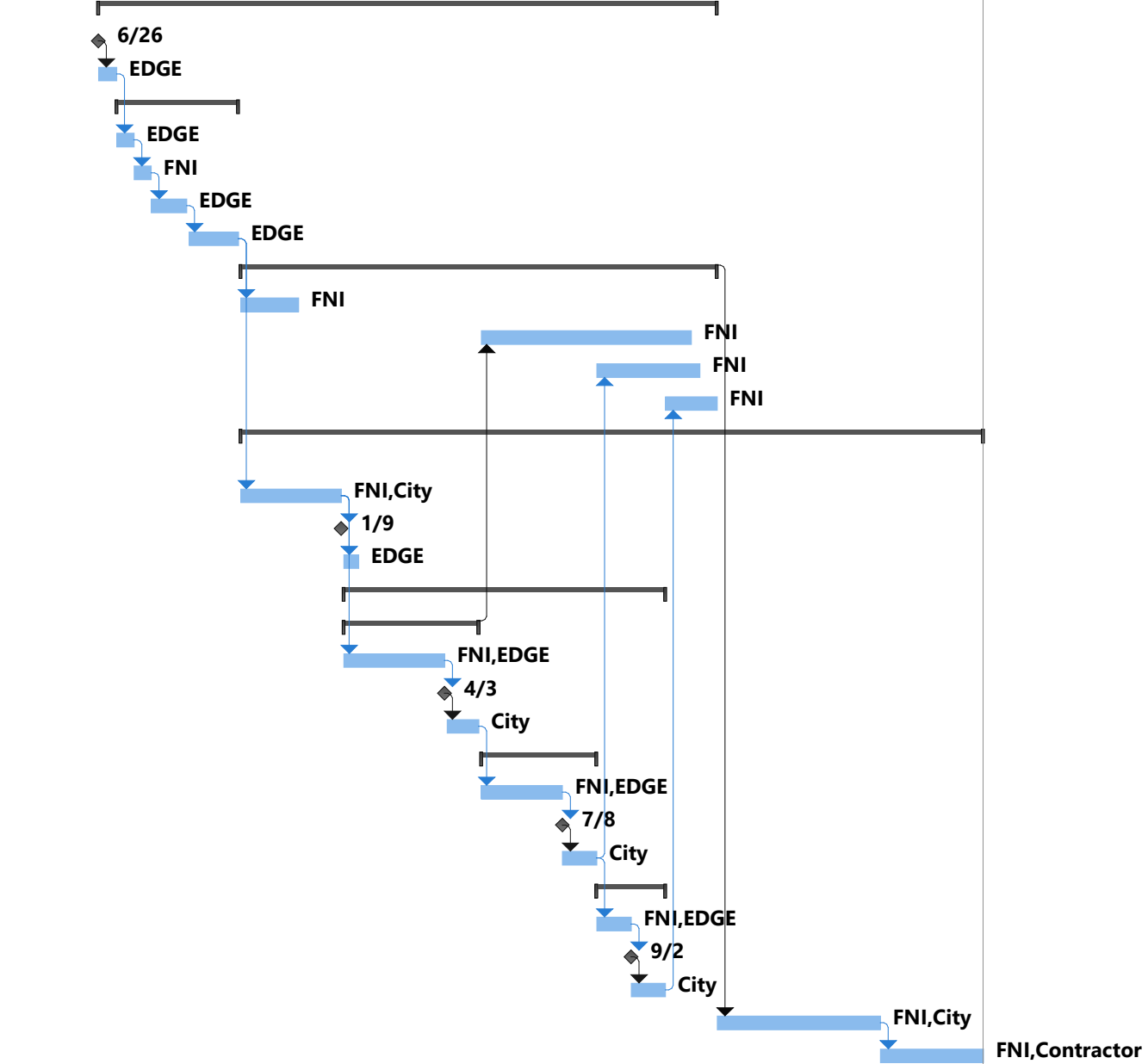
**Deliverables:**

- Change Order OPCC
- 11"x17" Culvert Extension Exhibit

**ADDENDUM TO EXHIBIT C**  
**Work Schedule**

Attached Behind This Page

EXHIBIT C																			
ID	Task Name	Duration	Start	Finish	Resource Names	% Complete													
							Qtr 2	Qtr 3	Qtr 4	2026	Qtr 1	Qtr 2	Qtr 3	Qtr 4	2027	Qtr 1	Qtr 2	Qtr 3	Qtr 4
1	Brushy Creek Culvert Extension (PSSA 5)	340 days	Thu 6/26/25	Wed 11/11/26		0%													
2	PSSA 5 Council Award	0 days	Thu 6/26/25	Thu 6/26/25	FNI,City	0%													
3	PSSA 5 NTP and subconsultant agreements	10 days	Thu 6/26/25	Thu 7/10/25	EDGE	0%													
4	Preliminary Engineering Report	70 days	Fri 7/11/25	Fri 10/17/25		0%													
5	Existing Conditions Hydraulic Analysis	10 days	Fri 7/11/25	Thu 7/24/25	EDGE	0%													
6	Plan View Design & Layout	10 days	Fri 7/25/25	Thu 8/7/25	FNI	0%													
7	Proposed Conditions Hydraulic Analysis	20 days	Fri 8/8/25	Fri 9/5/25	EDGE	0%													
8	Reporting	30 days	Mon 9/8/25	Fri 10/17/25	EDGE	0%													
9	Environmental Permitting	260 days	Mon 10/20/25	Wed 11/11/26		0%													
10	Environmental Analysis	30 days	Mon 10/20/25	Fri 12/5/25	FNI	0%													
11	USACE Coordination and Permitting	120 days	Mon 5/4/26	Wed 10/21/26	FNI	0%													
12	TCEQ Edwards Aquifer Permitting	60 days	Thu 8/6/26	Wed 10/28/26	FNI	0%													
13	TPWD Coordination	30 days	Thu 10/1/26	Wed 11/11/26	FNI	0%													
14	Brushy Creek Culvert Extension PS&E, Bidding and Construction Phase Services (PSSA 6)	400 days	Mon 10/20/25	Wed 6/16/27		0%													
15	PSSA 6 Prep & Review	45 days	Mon 10/20/25	Fri 1/9/26	FNI,City	0%													
16	PSSA 6 Council Award	0 days	Fri 1/9/26	Fri 1/9/26	FNI,City	0%													
17	PSSA 6 NTP and subconsultant agreements	10 days	Mon 1/12/26	Fri 1/23/26	EDGE	0%													
18	PS&E	185 days	Mon 1/12/26	Wed 9/30/26		0%													
19	60% Submittal Development	80 days	Mon 1/12/26	Fri 5/1/26		0%													
20	60% Plans and Manual Development	60 days	Mon 1/12/26	Fri 4/3/26	FNI,EDGE	0%													
21	60% due to City	0 days	Fri 4/3/26	Fri 4/3/26	FNI,EDGE	0%													
22	60% City Review	20 days	Mon 4/6/26	Fri 5/1/26	City	0%													
23	90% Submittal Development	65 days	Mon 5/4/26	Wed 8/5/26		0%													
24	90% Plans and Manual Development	45 days	Mon 5/4/26	Wed 7/8/26	FNI,EDGE	0%													
25	90% due to City	0 days	Wed 7/8/26	Wed 7/8/26	FNI,EDGE	0%													
26	90% City Review	20 days	Thu 7/9/26	Wed 8/5/26	City	0%													
27	100% Submittal Development	40 days	Thu 8/6/26	Wed 9/30/26		0%													
28	100% Plans & Manual Development	20 days	Thu 8/6/26	Wed 9/2/26	FNI,EDGE	0%													
29	100% due to City	0 days	Wed 9/2/26	Wed 9/2/26	FNI,EDGE	0%													
30	100% City Review	20 days	Thu 9/3/26	Wed 9/30/26	City	0%													
31	Bidding & Council Award	4 mons	Thu 11/12/26	Wed 3/24/27	FNI,City	0%													
32	Construction & TPWD Fish Relocation	3 mons	Thu 3/25/27	Wed 6/16/27	FNI,Contractor	0%													



**ADDENDUM TO EXHIBIT D**  
**Fee Schedule**

Attached Behind This Page

Chisholm Trail South Improvements (Old Town) PSSA 5 4/7/2025 Detailed Cost Breakdown	Project Fee Summary	
	Basic Services	\$ 145,470.00
	Special Services	\$ -
	Total Project	\$ 145,470.00

		Labor										Total Hours	Total Labor Effort
Task	Task Description	Project Manager Prof 5	APM Prof 3	Senior Advisor/QC Prof 6	EIT Prof 2	CADD CAD Tech/Des 1	Environmental Prof 4	Jr. Environmental Prof 1	GIS Specialist Prof 3	Accounting Corp Proj Sup 2	Project Administration Corp Proj Sup 3		
		\$243	\$180	\$278	\$162	\$112	\$208	\$132	\$180	\$129	\$172		
110.0	Route and Design Studies												-
110.1	Pedestrian Crossing Evaluation	10	10	1								21	4,508.00
	Floodplain Administrator Coordination	8	8									16	3,384.00
110.2	Pedestrian Rail Product Research & Coordination	2	8									10	1,926.00
													-
120.0	Environmental Services												-
120.1	Post Office and Utility Stakeholder Coord	4	28									32	6,012.00
120.2	Habitat Assessment & OHWM Delineation	2					12	12	6			32	5,646.00
120.3	USACE Permitting	2					52	64	16			134	22,630.00
120.4	TCEQ Edwards Aquifer Permitting	2					32		8			42	8,582.00
120.5	Fish Recovery & Relocation	2					26	24	4			56	9,782.00
													-
145.0	Project Management												-
145.1	Project Coordination	16	24		7							47	9,342.00
145.2	QA/QC	8		16								24	6,392.00
145.3	Project Administration	6								6	6	18	3,264.00
													-
160.0	Roadway Design												-
160.1	Revise Issued-for-Bid Roadway Plan Sheets	12	16		40	24						92	14,964.00
													-
161.0	Drainage Design												-
161.1	Existing Conditions Hydraulic Analysis	2	4									6	1,206.00
161.2	Proposed Conditions Hydraulic Analysis	10	12									22	4,590.00
161.3	Reporting	4	4									8	1,692.00
													-
162.0	Signing and Pavement Markings												-
162.1	Revise Issued-for-Bid Signing & Pavement Marking Plan Sheets		1			4						5	628.00
													-
163.0	Miscellaneous (Roadway)												-
163.1	Traffic Control Plan (TCP)												-
	Revise Issued-for-Bid Traffic Control Plan	2	4		12	20						38	5,390.00
163.2	Supplemental PS&E Documents												-
	Prepare Change Order OPCC		4			12						16	2,064.00
	Develop Plan View Exhibit	4	8			24						36	5,100.00
													-
Total Hours / Quantity		96	131	17	59	84	122	100	34	6	6	655	
Total Effort		\$ 23,328.00	\$ 23,580.00	\$ 4,726.00	\$ 9,558.00	\$ 9,408.00	\$ 25,376.00	\$ 13,200.00	\$ 6,120.00	\$ 774.00	\$ 1,032.00		\$ 117,102.00

Chisholm Trail South Improvements (Old Town) PSSA 5 4/7/2025 Detailed Cost Breakdown	Project Fee Summary	
	Basic Services	145,470
	Special Services	-
	Total Project	145,470

		Expenses	
Task	Task Description	Miles	Total Expense Effort
110.0	Route and Design Studies		
110.1	Pedestrian Crossing Evaluation		
	Floodplain Administrator Coordination	80	56.00
110.2	Pedestrian Rail Product Research & Coordination		
120.0	Environmental Services		
120.1	Post Office and Utility Stakeholder Coord		
120.2	Habitat Assessment & OHWM Delineation		
120.3	USACE Permitting		
120.4	TCEQ Edwards Aquifer Permitting		
120.5	Fish Recovery & Relocation		
145.0	Project Management		
145.1	Project Coordination	80	56.00
145.2	QA/QC		
145.3	Project Administration		
160.0	Roadway Design		
160.1	Revise Issued-for-Bid Roadway Plan Sheets		
161.0	Drainage Design		
161.1	Existing Conditions Hydraulic Analysis		
161.2	Proposed Conditions Hydraulic Analysis	80	56.00
161.3	Reporting		
162.0	Signing and Pavement Markings		
162.1	Revise Issued-for-Bid Signing & Pavement Marking Plan Sheets		
163.0	Miscellaneous (Roadway)		
163.1	Traffic Control Plan (TCP)		
	Revise Issued-for-Bid Traffic Control Plan		
163.2	Supplemental PS&E Documents		
	Prepare Change Order OPCC		
	Develop Plan View Exhibit		
Total Hours / Quantity		240	
Total Effort		\$ 168.00	\$ 168.00



Chisholm Trail South Improvements (Old Town) PSSA 5 4/7/2025 Detailed Cost Breakdown	Project Fee Summary	
	Basic Services	145,470.00
	Special Services	-
	Total Project	145,470.00

		Subconsultants		Total
Task	Task Description	EDGE	Total Sub Effort	Total Effort
110.0	Route and Design Studies		-	-
110.1	Pedestrian Crossing Evaluation		-	4,508.00
	Floodplain Administrator Coordination		-	3,440.00
110.2	Pedestrian Rail Product Research & Coordination		-	1,926.00
120.0	Environmental Services		-	-
120.1	Post Office and Utility Stakeholder Coord		-	6,012.00
120.2	Habitat Assessment & OHWM Delineation		-	5,646.00
120.3	USACE Permitting		-	22,630.00
120.4	TCEQ Edwards Aquifer Permitting		-	8,582.00
120.5	Fish Recovery & Relocation		-	9,782.00
145.0	Project Management		-	-
145.1	Project Coordination		-	9,398.00
145.2	QA/QC		-	6,392.00
145.3	Project Administration		-	3,264.00
160.0	Roadway Design		-	-
160.1	Revise Issued-for-Bid Roadway Plan Sheets		-	14,964.00
161.0	Drainage Design		-	-
161.1	Existing Conditions Hydraulic Analysis	1,850.00	1,850.00	3,056.00
161.2	Proposed Conditions Hydraulic Analysis	17,670.00	17,670.00	22,316.00
161.3	Reporting	8,680.00	8,680.00	10,372.00
162.0	Signing and Pavement Markings		-	-
162.1	Revise Issued-for-Bid Signing & Pavement Marking Plan Sheets		-	628.00
163.0	Miscellaneous (Roadway)		-	-
163.1	Traffic Control Plan (TCP)		-	-
	Revise Issued-for-Bid Traffic Control Plan		-	5,390.00
163.2	Supplemental PS&E Documents		-	-
	Prepare Change Order OPCC		-	2,064.00
	Develop Plan View Exhibit		-	5,100.00
Total Hours / Quantity		28,200.00		
Total Effort		\$ 28,200.00	\$ 28,200.00	\$ 145,470.00

<u>Position</u>	<u>Hourly Rate</u>
Professional 1	132
Professional 2	162
Professional 3	180
Professional 4	208
Professional 5	243
Professional 6	278
Construction Manager 1	114
Construction Manager 2	141
Construction Manager 3	154
Construction Manager 4	193
Construction Manager 5	232
Construction Manager 6	265
Construction Representative 1	102
Construction Representative 2	114
Construction Representative 3	141
Construction Representative 4	154
CAD Technician/Designer 1	112
CAD Technician/Designer 2	144
CAD Technician/Designer 3	179
Corporate Project Support 1	107
Corporate Project Support 2	129
Corporate Project Support 3	172
Intern / Coop	72

**Rates for In-House Services and Equipment**

<u>Mileage</u>	<u>Bulk Printing and Reproduction</u>		<u>Equipment</u>		
Standard IRS Rates		<u>B&amp;W</u>	<u>Color</u>	Valve Crew Vehicle (hour)	\$75
	Small Format (per copy)	\$0.10	\$0.25	Pressure Data Logger (each)	\$500
	Large Format (per sq. ft.)			Water Quality Meter (per day)	\$100
	Bond	\$0.25	\$0.75	Microscope (each)	\$150
	Glossy / Mylar	\$0.75	\$1.25	Ultrasonic Thickness Guage (per day)	\$275
	Vinyl / Adhesive	\$1.50	\$2.00	Coating Inspection Kit (per day)	\$275
				Flushing / Cfactor (each)	\$500
	Mounting (per sq. ft.)	\$2.00		Backpack Electrofisher (each)	\$1,000
	Binding (per binding)	\$0.25			
				<u>Survey Grade</u>	<u>Standard</u>
			Drone (per day)	\$200	\$100
			GPS (per day)	\$150	\$50

**OTHER DIRECT EXPENSES:**

Other direct expenses are reimbursed at actual cost times a multiplier of 1.00. They include outside printing and reproduction expense, communication expense, travel, transportation and subsistence away from the FNI office. For other miscellaneous expenses directly related to the work, including costs of laboratory analysis, test, and other work required to be done by independent persons other than staff members, these services will be billed at a cost times a multiplier of 1.00. For Resident Representative services performed by non-FNI employees and CAD services performed In-house by non-FNI employees where FNI provides workspace and equipment to perform such services, these services will be billed at cost times a multiplier of 2.0. This markup approximates the cost to FNI if an FNI employee was performing the same or similar services.

**These ranges and/or rates will be adjusted annually in February. Last updated 2025.**

April 1, 2025

Andrea Bryant, PE  
Freese and Nichols, Inc  
10431 Morado Circle, Suite 300  
Austin, Texas 78759

*DELIVERED VIA E-MAIL*

**Re: City of Round Rock Chisholm Trail – Brushy Creek Box Culvert Extension PER**

Dear Ms. Bryant:

EDGE Engineering, PLLC (EDGE) appreciates the opportunity to submit this professional engineering proposal to Freese and Nichols, Inc (FNI) in support of the above referenced project. The attached scope of services outlines EDGE's hydraulic modeling and reporting for the extension of the Chisholm Trail culverts over Brushy Creek.

We appreciate the opportunity to support FNI on this project. Please feel free to contact me directly if there are any questions regarding this proposal at 512-766-0463 or [tkaatz@civil-edge.com](mailto:tkaatz@civil-edge.com).

Sincerely,



Travis Kaatz, PE, CFM  
Principal

Attachments:

- Scope of Work
- Fee Schedule

## SCOPE OF WORK

EDGE shall provide hydraulic analysis and reporting for the extension of the Chisholm Trail box culverts over Brushy Creek to accommodate pedestrian facilities on the west (upstream) side of the crossing. EDGE will evaluate both the FEMA and Atlas 14 flow conditions and evaluate if a no-rise condition can be met with the proposed improvements.

### Task 1: Existing Conditions Hydraulic Analysis

- EDGE will utilize the Brushy Creek FEMA Effective HEC-RAS model and best available Atlas 14 HEC-RAS model provided by Williamson County. It is assumed the FEMA Effective model and Atlas 14 HEC-RAS model will be provided by the City.
- The Chisholm Trail bridge crossing and bounding cross-sections will be updated as necessary with the project survey obtained as part of the Chisholm Trail Improvement project. The upstream bounding cross-section will be adjusted if necessary to not conflict with the proposed culvert extension.
- No other improvements or adjustments to the HEC-RAS models are expected.

### Task 2: Proposed Conditions Hydraulic Analysis

- Two different models will be required. The FEMA Effective model with the effective FEMA flows and the Atlas 14 model recently developed by Williamson County. Both models will be updated with the proposed Chisholm Trail culvert extension.
- In the Atlas 14 model, two conditions will be considered requiring two separate geometries. The first condition will include the 42" tall pedestrian rail and will simulate the higher frequency storms (2-, 5-, 10-, 25-yr). The second condition will remove the pedestrian rail, which will break away via shear pins, and simulate the lower frequency storms (50-, 100-, 500-yr).
- Proposed solutions will be developed, iterated, and modeled with the goal of reaching a no-rise condition in the FEMA and Atlas 14 100-yr and a no adverse impact solution in the higher frequency events.
- The model methods, approach, and results will be coordinated with the City's FPA for agreement before the Draft Drainage Report. It is anticipated there will be two in-person meetings with the City FPA.

### Task 3: Reporting

EDGE will develop a Drainage Report which documents the methods and assumptions used for the hydraulic analysis. The report will document the general approach, iterations in the design, and the final results and recommendations.

### Deliverables

- Draft Drainage Report
- Final Drainage Report

### Exclusions

The following assumptions were made during the development of this scope. If any of the below services are found to be necessary during the project, EDGE will request additional services to be considered.

- Hydrologic analysis. It is assumed the FEMA or Atlas 14 flows will be used and no hydrology is required.

- CLOMR
- Any PS&E services

**Basis of Compensation**

EDGE proposes to provide the detailed "Scope of Work" for the Lump Sum amount of **\$28,200**.

**EXHIBIT B  
FEE SCHEDULE**

Task	Description	Senior Engineer \$250	Project Engineer \$190	Design Engineer \$160	Engineer In Training \$120	Total Labor Hours	Total Labor Cost	Expense Cost	Total Cost
1	Existing Conditions Hydraulic Analysis	1		4	8	13	\$1,850		\$1,850
2	Proposed Conditions Hydraulic Analysis					0			
	a. Effective FEMA	1	2	2	8	13	\$1,910		\$1,910
	b. Atlas 14	2	2	6	12	22	\$3,280		\$3,280
	c. Solution Development	8	8	16	24	56	\$8,960		\$8,960
	d. Floodplain Administrator Coordination	8	8			16	\$3,520		\$3,520
3	Reporting	4	8	16	30	58	\$8,680		\$8,680
<b>Project Totals</b>		<b>24</b>	<b>28</b>	<b>44</b>	<b>82</b>	<b>178</b>	<b>\$28,200</b>	<b>\$0</b>	<b>\$28,200</b>