

## **EXHIBIT "A"**

### **Paving, Drainage and Utility Improvements along Tarrant Road at Arbor Creek, W.O.#622.69 and W.O.#622.137**

## **ATTACHMENT "A"**

Project Description - Halff Associates will revise the construction drawings and finalize the below tasks.

### **SCOPE OF WORK**

#### **I. PRELIMINARY DESIGN**

##### **A. Data Collection**

1. No additional work

##### **B. Field Surveys**

1. No additional work

##### **C. Subsurface Utility Engineering**

1. No additional work

##### **D. Geotechnical Investigations (CMJ Engineering)**

1. No additional work

##### **E. Easements/Letters of Permission**

1. No additional work

##### **F. Wetland/Section 404 Nationwide Permitting**

1. Additional USACE/THC coordination and cultural resources
2. Cultural resource fieldwork (trenching) the archeological survey

##### **G. Preliminary Design – 30%**

1. No additional work

#### **II. FINAL DESIGN**

##### **H. Final Design:**

1. Address the following changes to the Bid Book:
  - a. TRA Bid Book Modifications
  - b. TxDOT Bid Book Modifications
  - c. Update Bid Book Per City Template Revisions
2. Additional Coordination with TRA

- a. Service Area Map and Calculations
  - b. Address TRA comments and finalize application for approval
  - c. Design replacement of 27" wastewater line
  - d. Pipe calculations for pipe material
  - e. Coordination and meetings (2) with TRA to finalize permit application
3. Additional Oncor Coordination
  - a. Oncor coordination consisting of the following:
    - Power pole location exhibits (2)
    - Addressing pole location comments
    - Utility Plan Sheets (3)
    - Redesign water line to accommodate power pole location
4. Grant Research
  - a. Deduction for Grant applications
5. Neighborhood Meeting Attendance and Support
  - a. No additional work
6. Project Detours
  - a. Develop detour alternatives (3)
  - b. Detour exhibits (2)
  - c. Detour memorandum
  - d. Social media exhibit
  - e. Address detour plan comments
  - f. Evaluate pavement damage along detours and quantify
7. TDLR Submittal
  - a. Submit Plans to TDLR for review. Submittal fee to be reimbursed by the City.

**I. Bidding Services**

1. No additional work

**J. Construction Services**

1. No additional work

**K. Floodplain Permits**

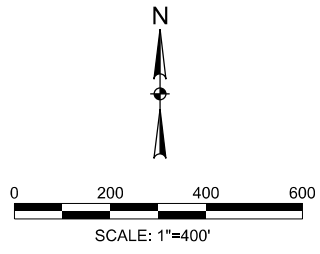
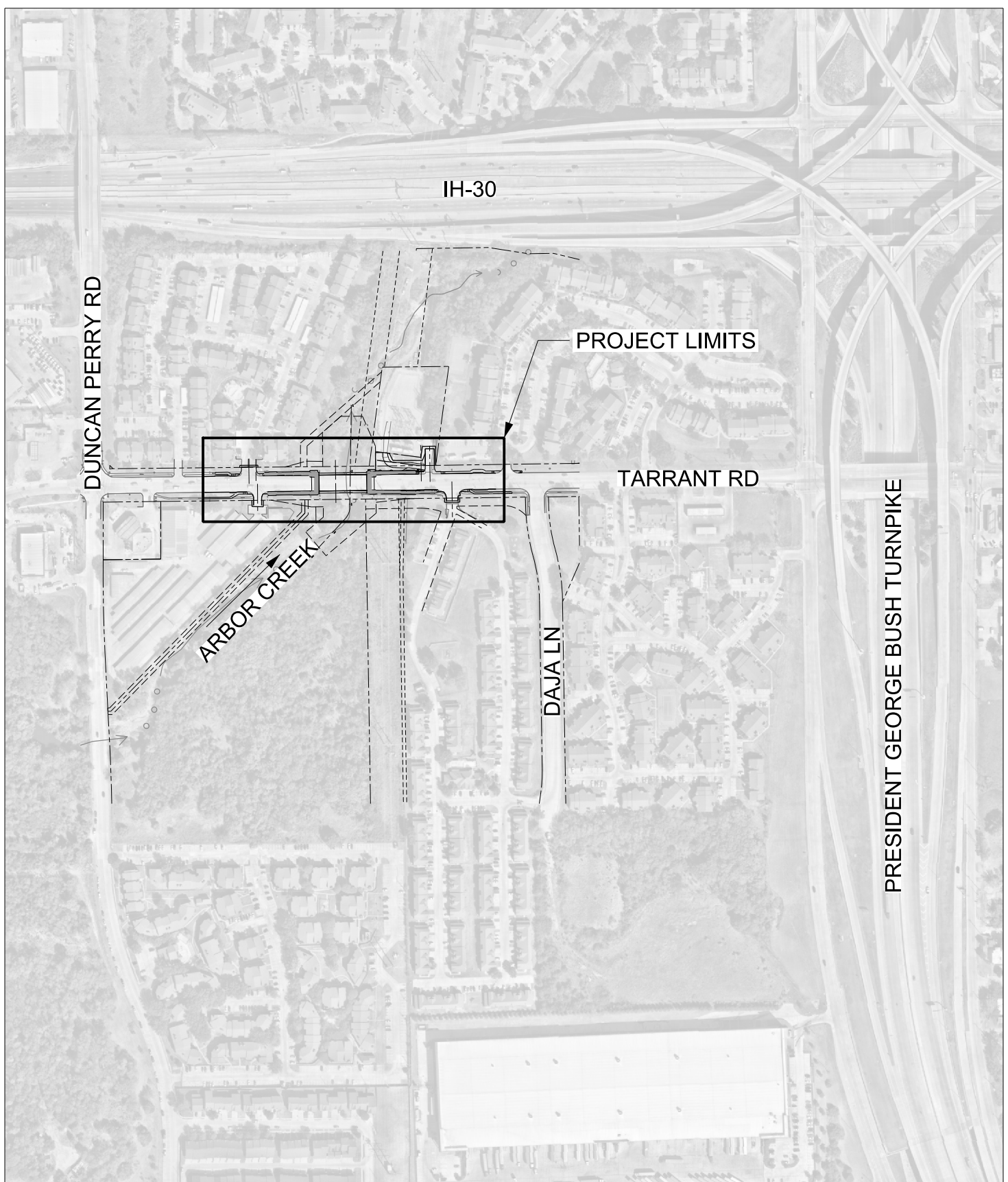
1. No additional work
1. FEMA Conditional Letter of Map Revision (CLOMR)
  - a. No additional work
2. FEMA Letter of Map Revision (LOMR)
  - a. No additional work

**EXHIBIT "A"**

**Paving, Drainage and Utility Improvements  
along Tarrant Road at Arbor Creek , W.O.#622.69 and W.O.#622.137**

**ATTACHMENT "B"**

**PROJECT MAP**



OVERALL PROJECT EXHIBIT

TARRANT ROAD AT ARBOR CREEK  
DRAINAGE IMPROVEMENTS  
DATE: 01/30/2023 AVO: 43504.001

 **HALFF**

1201 NORTH BOWSER ROAD, RICHARDSON, TX 75081 (214) 346-6200  
TPELS ENGINEERING FIRM #312

**EXHIBIT "A"****Paving, Drainage and Utility Improvements  
along Tarrant Road at Arbor Creek , W.O.#622.69 and W.O.#622.137****ATTACHMENT "C"****COMPENSATION BY TASK**

The total maximum fee for items described in Attachment "A" shall be on an hourly, not-to-exceed basis for \$87,400, which includes printing, direct costs, and computer charges normally associated with production of these services.

The compensation for services shall be on the basis of 2.3 times total salary cost for each employee engaged directly on the project. Total fees will not be exceeded without prior approval. Direct costs including printing and reproduction, postage, courier/overnight service and travel outside the Dallas/Fort Worth Metroplex will be considered reimbursable and will be billed at 1.1 times the direct cost incurred.

The project will be billed monthly on an hourly basis. Progress reports will be submitted to the City of Grand Prairie monthly along with invoices.

Paving, Drainage and Utility Improvements along Tarrant Road at Arbor Creek , W.O.#622.69 and W.O.#622.137											Attachment "C" Cont.	
ITEM No.	TASK	PM Cleavelin \$250.00	DPM Woodson \$300.00	W/WW Stephens \$250.00	Design Engineer Viggiano \$160.00	Design Engineer Rojas \$140.00	EIT Greaney \$115.00	CADD McGown \$130.00	Clerical Tisdale \$88.00	Total Labor	Expenses	Total
	<b>TARRANT ROAD/ARBOR CREEK - 2024 DESIGN COSTS</b>											
	<b>PRELIMINARY DESIGN</b>											
A	Data Collection											
B	Field Surveys											
C	Subsurface Utility Engineering											
D	Geotechnical Investigations											
E	Easements/Letters of Permission											
F	Section 404 Permitting											
	<i>Additional Coordination w/USACE/THC / Cultural Excavation</i>				16	4		4		\$ 3,640.00	\$6,600	\$10,240
G	Preliminary Design - 30%											
	<b>FINAL DESIGN</b>											
H	Final Design - 100%											
1	<i>TRA Bid Book Modifications</i>				16	4				\$ 3,120.00		\$3,120
	<i>TxDOT Bid Book Modifications</i>				16	4				\$ 3,120.00		\$3,120
	<i>Update Bid Book Per City Template Revisions</i>				10	4				\$ 2,160.00		\$2,160
2	<i>TRA</i>											
	<i>Service Area Map and Calculations</i>				8	16				\$ 3,520.00		\$3,520
	<i>Review/Comment Response</i>				16	8				\$ 3,680.00		\$3,680
	<i>Design of WWL Replacement</i>				12	20		40		\$ 9,920.00		\$9,920
	<i>Calculations</i>			8	8					\$ 3,280.00		\$3,280
	<i>Additional Coordination and Two Meetings</i>		2		20	8				\$ 4,920.00		\$4,920
3	<i>Oncor Coordination and Waterline Relocation</i>											
	<i>Power Pole Location Exhibits and Comment Resolution</i>				16	8		8		\$ 4,720.00		\$4,720
	<i>Utility Plans (3 Sheets)</i>				20	40		20		\$ 11,400.00		\$11,400
	<i>Waterline Revision</i>				8	16		10		\$ 4,820.00		\$4,820
4	<i>Grant Research</i>											
	<i>Grant Applications</i>											-\$4,000
6	<i>Project Detours</i>											
	<i>Developed Three Alternatives (January, Main and Egyptian)</i>	2			32	16		8		\$ 8,900.00		\$8,900
	<i>Detour Exhibits (2 – January and Main)</i>	1			12	16		8		\$ 5,450.00		\$5,450
	<i>Detour Memorandum</i>	1			20	6		2		\$ 4,550.00		\$4,550
	<i>Social Media Exhibit</i>				2	2				\$ 600.00		\$600
	<i>Address Detour Plan Comments</i>				4	2				\$ 920.00		\$920
	<i>Evaluated Pavement Damage Along Detours; Quantity Takeoffs</i>				16	4				\$ 3,120.00		\$3,120
										\$ -		
7	<i>TDLR Submittal</i>				6					\$ 960.00	\$2,000	\$2,960
I	Bidding Services											
J	Construction Services											
K	Floodplain Permits											
Total		4	2	8	258	178	0	100	0	\$82,800		\$87,400