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**WORK AUTHORIZATION NO. 2**  
**PROJECT: BAGDAD AT CR 278**

This Work Authorization is made pursuant to the terms and conditions of the Williamson County Contract for Engineering Services, being dated February 12, 2016 and entered into by and between Williamson County, Texas, a political subdivision of the State of Texas, (the "County") and LOCKWOOD, ANDREWS & NEWNAM, INC. (the "Engineer").

Part 1. The Engineer will provide the following Engineering Services set forth in Attachment "B" of this Work Authorization.

Part 2. The maximum amount payable for services under this Work Authorization without modification is twenty nine thousand five hundred two dollars (\$29,502.00).

Part 3. Payment to the Engineer for the services established under this Work Authorization shall be made in accordance with the Contract.

Part 4. This Work Authorization shall become effective on the date of final acceptance and full execution of the parties hereto and shall terminate on December 31, 2019. The Engineering Services set forth in Attachment "B" of this Work Authorization shall be fully completed on or before said date unless extended by a Supplemental Work Authorization.

Part 5. This Work Authorization does not waive the parties' responsibilities and obligations provided under the Contract.

Part 6. This Work Authorization is hereby accepted and acknowledged below.

OK  
M 4/13/18

EXECUTED this 14<sup>TH</sup> day of APRIL, 2018.

ENGINEER:

COUNTY:

Lockwood, Andrews & Newnam, Inc.

Williamson County, Texas

By: Robert D. Austin  
Signature

By: \_\_\_\_\_  
Signature

Robert D. Austin, P.E.  
Printed Name

\_\_\_\_\_  
Printed Name

Sr. Associate, Team Leader  
Title

\_\_\_\_\_  
Title

## **LIST OF ATTACHMENTS**

**Attachment B - Services to be Provided by Engineer**

**Attachment C - Work Schedule**

**Attachment D - Fee Schedule**

**ATTACHMENT B**  
**SERVICES TO BE PROVIDED BY THE ENGINEER**

**PROJECT DESCRIPTION**

**Existing Facility**

The existing Bagdad Road consists of one 11 foot lane in each direction with three foot shoulders within existing right of way varying between 70 to 80 feet. CR 278 consists of one 9 foot lane in each direction to the east of Bagdad Road and terminates at Bagdad Road.

**Proposed Facility**

The proposed project includes the reconstruction of an interim section of Bagdad Road for approximately 1000 feet to the north and 1000 feet to the south of CR 278 and the extension of CR 278 approximately 2500 to the west from Bagdad Road.

The interim section of Bagdad Road will consist of one lane in each direction, a northbound left turn lane into the extension of CR 278, and a southbound right turn lane into the extension of CR 278, as well as northbound and southbound acceleration lanes from the extension of CR 278. The roadway design will accommodate a future shared use path on the west side of the Bagdad Road and along the extension of CR 278 and proposed right of way will consist of a minimum of 150 feet.

**General Scope**

**1. CONSTRUCTION PHASE SERVICES**

**a. REQUESTS FOR INFORMATION - RFIs (5 assumed):**

- Attend pre-construction meeting
- Attend site visits and/or meetings to gather data and information for RFI responses.
- Respond to Contractor RFIs and provide design clarifications, additional information, and additional data to the GEC as required.

**b. REVIEW CONTRACTOR SUBMITTALS & SHOP DRAWINGS (5 assumed):**

- Review Contractor submittals and shop drawings received from the GEC. Shop drawings will be reviewed for general conformance with the plans and specifications and will include providing stamped concurrence, exceptions or resubmittal notations to the Contractor.

**c. PLAN REVISIONS FOR FIELD CHANGES (10 sheets assumed):**

- Engineer will provide minor revisions to plans in order to address differing site conditions, third party accommodation, or other owner directed changes. Revisions to plans will include revision clouds around any changes, will include descriptions and quantities of changes, CAD files, and will be sealed by a professional engineer.

d. ATTEND MEETINGS (2 assumed):

- Engineer will attend meetings at the project site or Williamson County representative office, as requested.
- Visit the project site on request (16 hours per visit) during construction to address questions on interpretation of plans.

e. WATER QUALITY BMP CERTIFICATION:

- Engineer will visit the project site and review the construction work related to adherence to the permanent water quality design plans. Provide a list of issues to be corrected to the GEC, if necessary.
- Engineer will prepare and submit to TCEQ a letter certifying that the permanent BMPs were constructed as designed.

2. DELIVERABLES

- a. All contract documents, including hard copies and electronic files, shall be turned over to the County at each milestone and at the completion of the project. Documents shall be posted to the County's project management database as requested.



PRIME PROVIDER NAME: Lockwood, Andrews & Newnam, Inc.  
 LAN CONTRACT NO.: 140-10987-100  
 PROJECT NAME: Bagdad at CR 278

**TASK SUMMARY**

TASK	TOTAL	LAN (Prime)	SWCA (Env)	HVJ (Geo)	SAM (TOPO-R/W)
TASK 1: Construction Phase Services	\$ 29,502.00	\$ 29,502.00	\$ -	\$ -	\$ -
Direct Expenses	\$ -	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
<b>TOTAL</b>	<b>\$ 29,502.00</b>	<b>\$ 29,502.00</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>

PRIME PROVIDER NAME: Lockwood, Andrews & Newnam, Inc.  
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TASK DESCRIPTION	PROJECT MANAGER	SENIOR PLANNER	ENGINEER VI	ENGINEER V	ENGINEER IV	ENGINEER III	DESIGNER III	ENGINEER II	QA/QC	ADMIN CLERICAL	TOTAL LABOR HRS. & COSTS
<b>TASK 1: CONSTRUCTION PHASE SERVICES</b>											
a. Respond to RFI (5 assumed)	5		20				5				\$ 5,130.00
b. Review Contractor Shop Drawings (5 assumed)	5		20				5				\$ 5,130.00
c. Plan Revisions for Field Changes (10 sheets assumed)	10		30				20				\$ 9,670.00
d. Attend Meetings (2 assumed)	16		16								\$ 6,448.00
e. Water Quality BMP Certification	8		8								\$ 3,224.00
											\$
											\$
											\$
<b>HOURS SUB-TOTALS</b>	44	0	94	0	0	0	30	0	0	0	168
<b>CONTRACT RATE PER HOUR</b>	\$ 230.00	\$ 140.00	\$ 173.00	\$ 166.00	\$ 129.00	\$ 115.00	\$ 104.00	\$ 102.00	\$ 253.00	\$ 72.00	
<b>TOTAL LABOR COSTS</b>	\$10,120.00	\$0.00	\$16,262.00	\$0.00	\$0.00	\$0.00	\$3,120.00	\$0.00	\$0.00	\$0.00	\$29,502.00
<b>% DISTRIBUTION OF STAFFING</b>	26.2%	0.0%	56.0%	0.0%	0.0%	0.00%	17.86%	0.00%	0.00%	0.00%	
<b>SUBTOTAL ENVIRONMENTAL PERMITTING</b>											
											\$29,502.00

TASK	TOTAL MH BY TASK	TASK
TASK 1: CONSTRUCTION PHASE SERVICES	168	\$29,502.00
<b>SUBTOTAL LABOR EXPENSES</b>	168	\$29,502.00
<b>OTHER DIRECT EXPENSES - DESIGN REPRODUCTION (11"x17") (3 FORMAL SUBM)</b>		
OVERNIGHT MAIL (LETTER)		\$0.00
OVERNIGHT MAIL (BOX)		\$0.00
TDLR Registration & Design Review		\$0.00
TDLR Construction Review		\$0.00
TCEQ C2P Permit Fee		\$0.00
<b>SUBTOTAL DIRECT EXPENSES</b>		\$0.00

<b>SUMMARY</b>	
TOTAL COSTS FOR PRIME ONLY	\$29,502.00
DN-SALARY (OTHER DIRECT EXPENSES) FOR PRIME ONLY	\$0.00
<b>GRAND TOTAL</b>	<b>\$29,502.00</b>