

**EXHIBIT C**

**WORK AUTHORIZATION NO. 3**

**PROJECT: North Mays Extension**

This Work Authorization No. 3 is made pursuant to the terms and conditions of the Williamson County Contract for Engineering Services, being dated April 7, 2015 ("Contract") and entered into by and between Williamson County, Texas, a political subdivision of the State of Texas, (the "County") and LJA Engineering, 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 \$51,872.25.

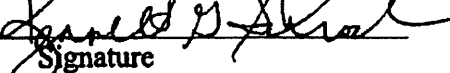
Part 3. Payment to the Engineer for the services established under this Work Authorization shall be made in accordance with the Contract.

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 the 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.

**ENGINEER:**

By:   
Signature

Kenneth G. Schrock, PE  
Printed Name

Senior Vice President  
Title

2/2/18  
Date

**COUNTY:**

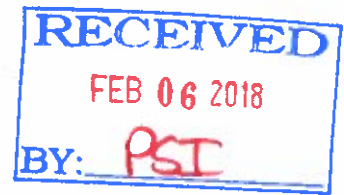
By:   
Signature

DA - A GATTI  
Printed Name

County Judge  
Title

02-16-2018  
Date

*OK  
2/2/18*



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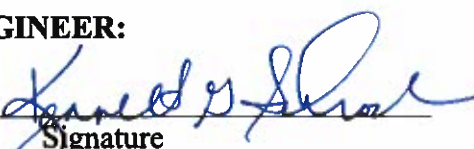
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**ENGINEER:**

By:   
Signature

Kenneth G. Schrock PE  
Printed Name

Senior Vice President  
Title

2/2/18  
Date

**COUNTY:**

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

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

\_\_\_\_\_  
Title

\_\_\_\_\_  
Date

*OK  
2/2/18*

## **LIST OF ATTACHMENTS**

**Attachment A – Services to be Provided by County**

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

**Attachment C – Work Schedule**

**Attachment D- Fee Schedule**

**ATTACHMENT A**

**SERVICES TO BE PROVIDED BY WILLIAMSON COUNTY  
North Mays (Arterial M)**

1. Williamson County will provide a Project Manager, through their GEC, to serve as the primary point of contact for the consultant.
2. Williamson County or its GEC, will act as direct contact with City of Round Rock.
3. Williamson County shall provide all Construction Phase Services Activities not specifically noted in Attachment B, such as Inspection, Materials Testing and Oversight.

## **ATTACHMENT B – Services to be Provided by the Engineer**

The Engineer will perform the following tasks listed below as a supplemental services to the original work authorization which generally include the design of a detention pond and construction phase services:

### **TASK 1 – PROJECT MANAGEMENT AND COMMUNICATION PLAN**

The Engineer will:

- ◆ **Invoicing, Contract Document Coordination, Progress Reports**
  - Prepare monthly progress reports and send with invoice to County & GEC via email/ProjectWise.
  - Prepare monthly invoices for submission to the County for all requests for payment.
- ◆ **Coordinate with GEC**
  - Coordinate with GEC regarding construction related activities.
  - Coordinate with Sub Consultants regarding construction related activities.

### **TASK 2 –CONSTRUCTION PHASE SERVICES**

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The Engineer will:

- ◆ **Construction Phase Services**
  - Request For Information – RFIs (15 Assumed):
    - 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.
- ◆ **Review Contractor Submittals & Shop Drawings (40 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.
- ◆ **Plan Revisions For Field Changes (10 Sheets Assumed):**
  - 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.
- ◆ **Attend Meetings (5 Assumed):**

- Attend meetings at the project site or Williamson County representative office, as requested.
- Visit the project site on request (2 hours per visit) during construction to address questions on interpretation of plans.

◆ **Water Quality BMP Certification:**

- 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.
- Prepare and submit to TCEQ a letter certifying that the permanent BMPs were constructed as designed.

◆ **WCID Permit Site Visit**

- Visit the site one time per month while construction is occurring within the Inundation Easement (assumed 6 months). Document the site visit with photos and using Engineering Judgement determine if construction is progressing per the plans with regards to earthwork within the limits of the Inundation Easement.
  - Send a letter sign and sealed by a Licensed Professional Engineer in the State of Texas stating that earthwork construction within the Inundation Easement is proceeding per the plans to the City of Round Rock Watershed Department.
-

# Attachment C

ID	Task Mode	Task Name	Duration	Start	Finish
1		PS&E Development	891 days	Fri 4/1/16	Fri 8/30/19
2		60% Design	105 days	Fri 4/1/16	Thu 8/25/16
3		90% Design	145 days	Fri 8/26/16	Thu 3/16/17
4		100% Design	271 days	Fri 3/17/17	Fri 3/30/18
5		100% Plan Development	200 days	Fri 3/17/17	Thu 12/21/17
6		Pond Design	29 days	Mon 2/5/18	Thu 3/15/18
7		Draft Pond Submittal	1 day	Fri 3/16/18	Fri 3/16/18
8		Pond Review (Landowner & City & GEC)	10 days	Mon 3/19/18	Fri 3/30/18
9		Final Submittal	20 days	Mon 4/2/18	Fri 4/27/18
10		Bidding	30 days	Mon 6/11/18	Fri 7/20/18
11		Construction	290 days	Mon 7/23/18	Fri 8/30/19

Project: North Mays WA#3

Date: Thu 1/25/18

Task

Split

Milestone

Summary

Project Summary

Inactive Task

Inactive Milestone

Inactive Summary

Manual Task

Duration-only

Manual Summary Rollup

Manual Summary

Start-only

Finish-only

External Tasks

External Milestone

Deadline

Critical

Critical Split

Progress

Manual Progress

## ATTACHMENT D

## SERVICES FOR NORTH MAYS WA#3:

## LABOR

LJA

\$39,170.00

Steger Bizzell

\$7,056.00

KCI

\$4,970.00

## DIRECT COSTS

LJA

\$676.25

Steger Bizzell

-

KCI

\$57.50

TOTAL FOR WA#3

\$51,872.25



North Mays													
TASK DESCRIPTION		Senior Project Manager	Senior Engineer	Project Engineer	E.I.T.	Senior Engineering Tech	CADD Operator	Admin	Total	Number of Sheets	Hours/Sheet		
		HOURS	HOURS	HOURS	HOURS	HOURS	HOURS	HOURS	HOURS				
TASK 1 – PROJECT MANAGEMENT AND COMMUNICATION PLAN													
1.1	Invoicing, Contract Document Coord, Progress Reports		6.0					12.0	18.0				
	Monthly Progress Reports & Invoices (12 Months)												
1.2	Coordinate with GEC & Subconsultants		8.0						8.0				
	Coordinate with GEC		4.0						4.0				
	Coordinate with Sub Consultants												
		0.0	18.0	0.0	0.0	0.0	0.0	12.0	30.0				
	SUB TOTAL HOURS												
	SUB TOTAL FEE	\$0	\$3,150	\$0	\$0	\$0	\$0	\$840	\$3,990				
TASK 4 – CONSTRUCTION PHASE SERVICES													
4.1	Respond to Request For Information (RFI) (Assume 13 RFI)			16.0					16.0				
	Attend Site Visit for RFI		8.0	32.0	40.0		40.0		120.0				
	RFI Response												
4.2	Contractor Submittal Review			24.0	40.0				64.0				
	Review Construction Submittals (Assume 40)												
4.3	Plan Revisions for Field Changes												
	Plan Revisions for Field Changes (Assume 5)			10.0	16.0		16.0		42.0				
4.4	Attend Meetings												
	Attend Construction Meetings (Assume 5)			10.0					10.0				
4.5	WQ BMP Certification												
	Site Visit & TCEQ Certification Letter			6.0					6.0				
4.6	WCID Permit Site Visit												
	Site Visits for WCID Permit (Assume 6)			12.0					12.0				
	Certified Monthly Letter for work in WCID Inundation Area			6.0					6.0				
		0.0	8.0	116.0	96.0	0.0	56.0	0.0	276.0				
	SUB TOTAL HOURS												
	SUB TOTAL FEE	\$0	\$1,400	\$16,820	\$12,480	\$0	\$4,480	\$0	\$35,180.0				
TOTAL North Mays Tasks													
	TOTAL HOURS (L/A)	0.0	26.0	116.0	96.0	0.0	56.0	12.0	306.0				
	TOTAL LABOR FEE (L/A)	\$0	\$4,550	\$16,820	\$12,480	\$0	\$4,480	\$840	\$39,170				

North Mays										
Project Manager		Senior Prof 2	Senior Prof 1	Eng. Technician	Prof 1 / Tech	Admin / Clerical	Total	Number of Sheets	Hours/Sheet	
HOURS		HOURS	HOURS	HOURS	HOURS	HOURS	HOURS		HOURS	
200.00		185.00	165.00	140.00	110.00	65.00				
TASK DESCRIPTION										
TASK 4 - CONSTRUCTION PHASE SERVICES										
4.1 Respond to Request For Information (RFI) (Assume 3 RFI)										
				4.0			4.0			
				4.0	8.0		14.0			
RFI Response										
		2.0								
4.2 Contractor Submittal Review										
				2.0	6.0		10.0			
Review Construction Submittals (Assume 4)										
4.3 Plan Revisions for Field Changes										
				2.0	8.0		10.0			
Plan Revisions for Field Changes (Assume 1)										
4.4 Attend Meetings										
				2.0			2.0			
		0.0	2.0	0.0	14.0	24.0	40.0			
SUB TOTAL HOURS		\$0	\$370	\$0	\$1,960	\$2,640	\$4,970.0			
SUB TOTAL FEE										
TOTAL North Mays Tasks										
		0.0	2.0	0.0	14.0	24.0	40.0			
TOTAL HOURS (KCI)										
		\$0	\$370	\$0	\$1,960	\$2,640	\$4,970			
TOTAL LABOR FEE (KCI)										

# Estimated Fee Schedule

Parcel 7 (Chandler Creek Commercial Condos) Pond Design  
North Mays Extension Project

1/16/2018

## Estimated Fee Schedule

Task and Description	Engineer (Principal)	Senior Engineer	Engineer (PE)	Registered Surveyor	Engineer in Training	Senior Technician	Clerical	2-Man Survey	Direct	Estimate
Hourly Rate:	233	216	161	134	133	128		160		
<b>Design Phase</b>										
a. Prepare construction drawings and specs		8	80		150					35,024
b. Proposed roadway coordination					8					2,996
c. Prepare project quantities and cost estimate			8		12					2,884
d. Client review and revisions			12							7,252
e. Prepare and submit SDP to City			8		16				1300	3,416
<b>Subtotal Hours:</b>	<b>2</b>	<b>8</b>	<b>120</b>	<b>0</b>	<b>226</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>356</b>
<b>Subtotal Fees:</b>	<b>\$400</b>	<b>\$1,728</b>	<b>\$23,760</b>	<b>\$0</b>	<b>\$33,936</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$59,928</b>
<b>Bidding &amp; Construction Phase Services</b>										
a. Respond to Bidder questions as necessary			8		8					2,352
b. Prepare change orders and RFI's as necessary			8		8					2,352
c. Site Visits (4 max)			8		8					2,352
<b>Subtotal Hours:</b>	<b>0</b>	<b>0</b>	<b>24</b>	<b>0</b>	<b>24</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>48</b>
<b>Subtotal Fees:</b>	<b>\$0</b>	<b>\$0</b>	<b>\$3,864</b>	<b>\$0</b>	<b>\$3,192</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$7,056</b>
<b>TOTAL HOURS:</b>	<b>2</b>	<b>8</b>	<b>144</b>	<b>0</b>	<b>250</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>404</b>
<b>TOTAL FEES:</b>	<b>\$466</b>	<b>\$1,728</b>	<b>\$23,184</b>	<b>\$0</b>	<b>\$33,250</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$1,300</b>	<b>\$59,928</b>

## LJA'S OVERHEAD DIRECT COSTS

DIRECT REIMBURSABLE EXPENSES	Rate	Quantity	Cost
Lodging/Hote	\$85.00		
Meals	\$36.00		
Mileage	\$0.58	850	\$488.75
Rental Car	\$45.00		
Standard Postage	\$0.42		
Overnight Mail - letter size	\$16.00		
Overnight Mail - oversized bo:	\$30.00		
Courier Services (Deliveries)	\$30.00	2	\$60.00
CADD Plotting (per SQ/FT)	\$1.50		
Photocopies B/W (8.5 X 11)	\$0.10	100	\$10.00
Photocopies B/W (11 X 17)	\$0.15	200	\$30.00
Photocopies Color (8 X 10)	\$0.75	50	\$37.50
Photocopies Color (11 X 17)	\$1.00	50	\$50.00
Blueline/Blackline Prints (11" X 17"	\$0.20		
Blueline/Blackline Prints (22" X 34"	\$0.50		
Plots (B/W on Bond)	\$0.25		
Plots (Color on Bond)	\$2.00		
Plots (Color on Photographic Paper)	\$5.50		
Mylar (11" X 17"	\$3.00		
Traffic Count	\$2,000.00		
CD Archive	\$1.50		
TCEQ SCS Filing Fee	\$650.00		
TDLR Registration and Inspection	\$1,450.00		
<b>TOTAL LJA DIRECT COSTS</b>			<b>\$676.25</b>

## KCI'S OVERHEAD DIRECT COSTS

DIRECT REIMBURSABLE EXPENSES	Rate	Quantity	Cost
Lodging/Hotel	\$85.00		
Meals	\$36.00		
Mileage	\$0.58	100	\$57.50
Rental Car	\$45.00		
Standard Postage	\$0.42		
Overnight Mail - letter size	\$16.00		
Overnight Mail - oversized bo:	\$30.00		
Courier Services (Deliveries)	\$30.00		
CADD Plotting (per SQ/FT)	\$1.50		
Photocopies B/W (8.5 X 11)	\$0.10		
Photocopies B/W (11 X 17)	\$0.15		
Photocopies Color (8 X 10)	\$0.75		
Photocopies Color (11 X 17)	\$1.00		
Blue/line/Blackline Prints (11" X 17"	\$0.20		
Blue/line/Blackline Prints (22" X 34"	\$0.50		
Plots (B/W on Bond)	\$0.25		
Plots (Color on Bond)	\$2.00		
Plots (Color on Photographic Paper)	\$5.50		
Mylar (11" X 17"	\$3.00		
Traffic Count:	\$2,000.00		
CD Archive	\$1.50		
TCEQ SCS Filing Fee	\$650.00		
TDLR Registration and Inspection	\$1,450.00		
<b>TOTAL KCI DIRECT COSTS</b>			<b>\$57.50</b>