



**SUPPLEMENTAL WORK AUTHORIZATION NO. 4
TO
WORK AUTHORIZATION NO. 2**

**WILLIAMSON COUNTY ROAD BOND PROJECT:
North Mays Extension (Paloma Dr. to Oakmont Dr.)**

This Supplemental Work Authorization No. 4 to Work Authorization No. 2 is made pursuant to the terms and conditions of the Williamson County Contract for Engineering Services, being dated January 26, 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").

WHEREAS, the County and the Engineer executed Work Authorization No. 2 dated effective May 5, 2016 (the "Work Authorization");

WHEREAS, pursuant to Article 14 of the Contract, amendments, changes and modifications to a fully executed Work Authorization shall be made in the form of a Supplemental Work Authorization; and

WHEREAS, it has become necessary to amend, change and modify the Work Authorization.

AGREEMENT

NOW, THEREFORE, premises considered, the County and the Engineer agree that the Work Authorization shall be amended, changed and modified as follows:

- I. The Services to be Provided by the County that were set out in the original Attachment "A" of the Work Authorization are hereby amended, changed and modified as shown in the attached revised Attachment "A" (must be attached).
- II. The Services to be Provided by the Engineer that were set out in the original Attachment "B" of the Work Authorization are hereby amended, changed and modified as shown in the attached revised Attachment "B" (must be attached).
- III. The Work Authorization shall terminate on December 31, 2018. The Services to be Provided by the Engineer shall be fully completed on or before said date unless extended by an additional Supplemental Work Authorization. The revised Work Schedule is attached hereto as Attachment "C" (must be attached).
- IV. The maximum amount payable for this Work Authorization is increased from \$746,616.25 to \$832,693.00. The revised Fee Schedule is attached hereto as Attachment "D" (must be attached).

Except as otherwise amended by prior or future Supplemental Work Authorizations, all other terms of the Work Authorization are unchanged and will remain in full force and effect.

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

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

ENGINEER:

By: *Kenneth G. Schrock*
Signature

KENNETH G. SCHROCK, PE
Printed Name

Sr. Vice President
Title

2/2/18
Date

COUNTY:

By: _____
Signature

Printed Name

Title

Date

LIST OF ATTACHMENTS

- Attachment A – Services to be Provided by the County
- Attachment B – Services to be Provided by the Engineer
- Attachment C – Work Schedule
- Attachment D - Fee Schedule

*OK
my 2/2/18*

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 existing CADD files.
4. Williamson County will provide timely reviews in conjunction with the agreed upon schedule. It is our understanding that Round Rock will also provide reviews through Williamson County GEC.
5. Williamson County will provide right-of-way acquisition services for this project.
6. Williamson County will provide right-of-way relocation assistance if necessary.
7. Williamson County will provide utility coordination services for this project.
8. Williamson County will provide S.U.E. services for this project, if needed.
9. Williamson County will provide TDLR review and registration for this project.

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 the City of Round Rock, GEC, & GEC Utility Coordinator**
 - Coordinate with the GEC and assist in coordination with the City of Round Rock and GEC Utility Coordinator.
- ◆ **Manage Sub Consultants**
 - Prepare Subcontracts and monitor budget, scope and schedule for subconsultant work. Ensure that deliverables are on time and communicate with subconsultants throughout the design.
- ◆ **Meetings**
 - Attend Pond Design Draft Review Meeting

TASK 2 – SURVEY SERVICES

The Engineer will:

- ◆ **Set Control**
 - Recover, verify and utilize established control (previous work on project). The values will be relative to NAD 83 Texas State Plane Coordinates, Central Zone 4203 (scaled to surface values). Vertical Datum will be GPS Orthometric heights and projected through the length of the project.
- ◆ **Collect Data**
 - Collect spot elevations and grade breaks. The data will include curbs, gutters, driveways, portions of parking areas, visible utilities, drainage features, trees (ornamentals and/or 8" and up dbh) and any improvement within the defined area. NOTE: reasonable attempts for measurement at silted drainage structures will be performed. Significant excavation of silt could result in seeking of additional fees for data acquisition.
- ◆ **Process Data**

- Generate a 1 foot contour level interval DTM file of the project area and merge with the existing file.
-

TASK 3 –PLANS, SPECIFICATIONS, AND ESTIMATE (PS&E) DEVELOPMENT

The Engineer will:

◆ Roadway Plans

- Update drainage design and drainage plan sheets to incorporate pond design.
- Update Cross Sections to reflect grading associated with the pond design.
- Incorporate Pond Design Sheets into the overall plan set.

◆ Detention Pond Design

- Prepare construction drawings and specifications for the reconfiguration of the detention pond in accordance with the latest City of Round Rock Design and Construction Standards and generally accepted engineering practices. Plans will not be developed as a stand-alone set but will be formatted to be included with the Client's plan package. Plans are anticipated to include the following general sections:
 - General Notes and Estimated Quantities
 - Existing Conditions
 - Demolition Plan
 - Site Plan
 - Grading Plan
 - Retaining Wall Layout
 - Standard Details
- Analyze Client's roadway improvement plans and coordinate minor adjustments to the pond and/or roadway design, as necessary.
- Prepare project quantities and a probable cost of construction for the pond reconfiguration.
- Submit plans to Client for review. Modify plans based on comments received.
- Submit Site Plan to City of Round Rock staff for review and modify plans based on comments received. The estimated submittal fee(s) is \$1,300 based on a project site size of 2.5 acres. This fee is included in the Fee Schedule as a direct expense. Any additional work or fee(s) required by the City of Round Rock and not explicitly described herein warrants a modification to this scope and fee.
- The pond design has the following exclusions:
 - Modifications to the existing water quality pond, and resulting coordination with TCEQ
 - Parking lot design
 - Landscape or Irrigation design
 - Geologic Assessment

- Public Involvement (meetings with landowners, etc.)
- Work in any area outside of the Project Limits
- TDLR review & inspection (no pedestrian elements proposed)

◆ **Utility Coordination**

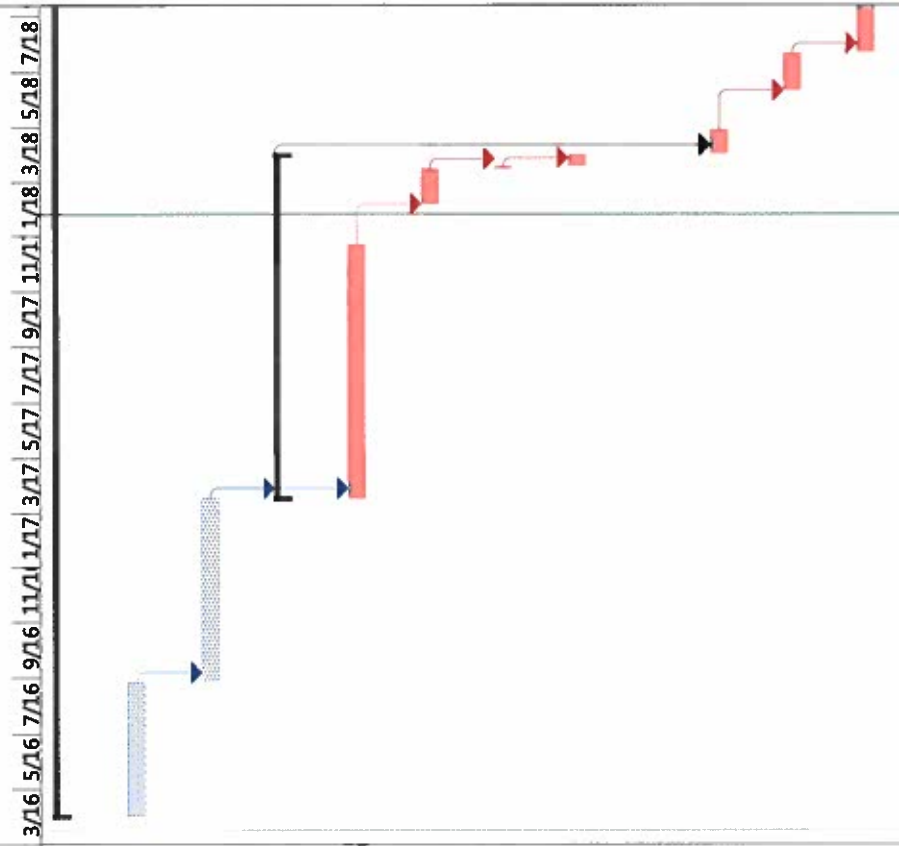
- Update design files with GEC Utility Coordinator and incorporate any additional utility information into plan sheets.

◆ **QA/QC**

- Require these reviews: Detailed Check Review for all designs, Inter-discipline coordination review, detailed plan and construction reviews, and County oversight review.
- PM will maintain documentation of the reviews and it will be made available to the County at their request. All submittals will include a red line set.

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#2
 Supplemental #4
 Date: Thu 1/25/18

Task		Inactive Summary		External Tasks	
Split		Manual Task		External Milestone	
Milestone		Duration-only		Deadline	
Summary		Manual Summary Rollup		Critical	
Project Summary		Manual Summary		Critical Split	
Inactive Task		Start-only		Progress	
Inactive Milestone		Finish-only		Manual Progress	

ATTACHMENT D

SERVICES FOR NORTH MAYS WA#2 Supp #4:	
LABOR	
LJA	\$22,390.00
Steger Bizzell (Sub Consultant - Pond Design)	\$58,628.00
Inland Geodetics (Sub Consultant - Survey)	\$3,703.00
DIRECT COSTS	
LJA	\$55.75
Steger Bizzell (Sub Consultant - Pond Design)	\$1,300.00
Inland Geodetics (Sub Consultant - Survey)	-
TOTAL FOR WA#2 Supplemental #4	\$86,076.75

TASK DESCRIPTION	North Mays										Total	Hours/Sheet
	Senior Project Manager	Senior Engineer	Project Engineer	E.I.T.	Senior Engineering Tech	CADD Operator	Admin	Hours	Number of Sheets	Hours/Sheet		
TASK 1 - PROJECT MANAGEMENT AND COMMUNICATION PLAN												
1.1												
	Investing, Contract Document Coord, Progress Reports											
	Monthly Progress Reports & Invoicest (3 Months)											
1.2												
	Coordinate with GEC	1.0	8.0									9.0
	Coordinate with City		8.0									8.0
1.3												
	Manage Sub Consultants	1.0	4.0	4.0								9.0
	Manage Inland	1.0	16.0	18.0								33.0
1.4												
	Meetings	2.0		2.0								4.0
	Attend Pond Draft Submittal Comment Response Meeting	5.0	41.0	22.0	0.0	0.0	0.0	0.0	0.0	0.0	5.0	73.0
	SUB TOTAL HOURS	11.0	77.0	44.0	0.0	0.0	0.0	0.0	0.0	0.0	5.0	137.0
	SUB TOTAL FEE	\$1,075	\$7,175	\$3,190	\$0	\$0	\$0	\$0	\$0	\$0	\$350	\$11,790
TASK 2 - SURVEY SERVICES												
2.1												
	Additional Topographic Survey											
	See Inland Geodetics Fee											
TASK 3 - PLANS, SPECIFICATIONS, AND ESTIMATE (P&S&E) DEVELOPMENT												
3.1												
	Roadway Plans											
	Update Drainage Plans for Pond		2.0	8.0	8.0					16.0		34.0
	Update Cross Sections for Pond		4.0	4.0	4.0							16.0
	Include Pond Design Sheets into plan set		2.0	2.0	4.0					4.0		10.0
3.2												
	Detention Pond Design											
	See Steger Bizzell Fee											
3.3												
	Utility Coordination											
	Additional Coordination with GEC UC			4.0	4.0							8.0
3.4												
	GAQC											
	Review Pond Design											
	SUB TOTAL HOURS	0.0	8.0	8.0	20.0	8.0	8.0	8.0	8.0	20.0	0.0	84.0
	SUB TOTAL FEE	\$0	\$1,750	\$3,770	\$2,600	\$680	\$0	\$1,800	\$0	\$10,600.0	\$0	\$10,600.0
TOTAL North Mays Tasks												
	TOTAL HOURS (LJA)	5.0	51.0	48.0	20.0	8.0	5.0	20.0	8.0	20.0	5.0	157.0
	TOTAL LABOR FEE (LJA)	\$1,075	\$8,925	\$6,960	\$2,600	\$680	\$350	\$1,600	\$0	\$22,390	\$0	\$22,390

LJA'S OVERHEAD DIRECT COSTS

DIRECT REIMBURSABLE EXPENSES	Rate	Quantity	Cost
Lodging/Hotels	\$85.00		
Meals	\$36.00		
Mileage	\$0.58	50	\$28.75
Rental Car	\$45.00		
Standard Postage	\$0.42		
Overnight Mail - letter size	\$16.00		
Overnight Mail - oversized box	\$30.00		
Courier Services (Deliveries)	\$30.00		
CADD Plotting (per SQ/FT)	\$1.50		
Photocopies B/W (8.5 X 11)	\$0.10	20	\$2.00
Photocopies B/W (11 X 17)	\$0.15	50	\$7.50
Photocopies Color (8 X 10)	\$0.75	10	\$7.50
Photocopies Color (11 X 17)	\$1.00	10	\$10.00
Blue/Blackline Prints (11" X 17")	\$0.20		
Blue/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		
TOTAL LJA DIRECT COSTS			\$55.75

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

Prepared by
STEGER BIZZELL

Estimated Fee Schedule

Task and Description	Engineer (Principal)	Senior Engineer	Engineer (PE)	Registered Surveyor	Engineer in Training	Senior Technician	Clerical	2-Man Survey	Direct Expense(s)	Total Estimate
Design Phase										
a. Prepare construction drawings and specs	2	8	80	150						35,024
b. Proposed roadway coordination		12	8							2,996
c. Prepare project quantities and cost estimate		8	12							2,884
d. Client review and revisions		12	40							7,252
e. Prepare and submit SDP to City		8	16					1300		3,416
Subtotal Hours:	2	8	120	0	226	0	0	0	0	356
Subtotal Fees:	\$466	\$1,728	\$19,320	\$0	\$30,058	\$0	\$0	\$0	\$1,300	\$52,872
Bidding & Construction Phase Services										
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
Subtotal Hours:	0	24	0	0	0	0	0	0	0	48
Subtotal Fees:	\$0	\$0	\$3,864	\$0	\$3,192	\$0	\$0	\$0	\$0	\$7,056
TOTAL HOURS:	2	8	144	0	250	0	0	0	0	404