



**SUPPLEMENTAL WORK AUTHORIZATION NO. 1  
TO  
WORK AUTHORIZATION NO. 3**

**WILLIAMSON COUNTY ROAD BOND PROJECT:**

Ronald Reagan Blvd. at IH 35 Final Design

This Supplemental Work Authorization No. 1 to Work Authorization No. 3 is made pursuant to the terms and conditions of the Williamson County Contract for Engineering Services, being dated October 10, 2014 ("Contract") and entered into by and between Williamson County, Texas, a political subdivision of the State of Texas, (the "County") and Binkley & Barfield, Inc. (the "Engineer").

WHEREAS, the County and the Engineer executed Work Authorization No. 3 dated effective June 14, 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:

- 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, 2019. 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 \$724,504 to \$807,245.

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: BDR  
Signature

Brian Rice  
Printed Name

Vice President  
Title

9/14/17  
Date

**COUNTY:**

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

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

\_\_\_\_\_  
Title

\_\_\_\_\_  
Date

OK  
M 9/12/2017

**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 Engineer

The general tasks below, not in the original scope of work, are proposed to be added to this WA:

- **Prior Modifications:**
  - There were several iterations of the frontage road configurations to meet TxDOT construction phasing requirements. BBI has agreed to accept several iterations as part of design refinement. However, there were multiple iterations, the most significant being that TxDOT wanted to maintain 2 lanes on the frontage roads for possible I-35 closures and reconsidered the original TCP later to only keep one open lane on the frontage roads.
    - Following development of construction phasing plans that provided 1-lane frontage roads, TxDOT requested that 2-lanes of traffic be maintained on the NB and SB frontage roads at all times, 2-way traffic on the existing bridge and 1-way traffic on the new EB bridge during construction. WB and SB traffic from CR 311 was to be routed north to Bud Stockton Loop and back to the Ronald Reagan interchange.
    - After the 60% submittal review, TxDOT changed their construction traffic control and construction phasing requirements to allow 1-lane of traffic on the frontage roads during mainlane closures, 2-way traffic on the existing bridge and 1-way traffic on the new EB bridge during construction. This did not change the WB and SB detour from CR 311 to Bud Stockton.
    - Following the 90% submittal, TxDOT reconsidered the original TCP design to allow continuous access to the gas station with 1 lane of traffic on the frontage roads and allowing 2-way traffic on the new EB bridge with a 2-way detour between the new EB and WB Ronald Reagan alignments during construction. This created revisions to the TCP, construction phasing, detour lane design, and added significant effort to provide submittal modifications.
  - Modify the pavement section to include Portland cement concrete pavement (PCCP) in the interchange, 500' before each bridge, between the bridges, extending past the second bridge 200'. This change from AC pavement to PCC pavement after 60% design created significant impact to the quantities, typical sections, construction phasing, quantities, and affected the construction schedule and construction cost estimate.
  - The Engineer prepared an alternative analysis for the temporary incorporation of an interim auxiliary lane underneath the existing Ronald Reagan bridge prior to the construction of this project.
- **New Tasks:**

- The Engineer shall prepare a Design Exception Request for the inside shoulders at the proposed Ronald Reagan Bridge. The mainline inside shoulders will be less than required for a short distance due to existing and proposed bridge center columns. Per TxDOT, the design will keep the existing 8' inside shoulder as is.
- Updated TxDOT schematic checklist. The latest design checklist from TxDOT was received in May 2017 with over 12 pages of items needing to be on the schematic drawings, compared to the previous checklist, submitted in May 2016, with only 4 pages. BBI needs additional time to include the additional items shown on the new TxDOT schematic checklist.
- Pre-Letting Plan for delayed construction start (September 2019 letting schedule). BBI will develop a pre-letting plan, including incorporation into the PS&E documents and construction schedule. This will require update to general notes, standards, bid items, etc.

WA 3 Exclusions:

- Scope of work does not include construction phase services for previous proposal scope of work items.
- Additional design work required due to rejection of design exception.

Total Fee to be added:

Project Management:	\$20,729
QA/QC:	\$ 6,286
Schematic & PS&E:	\$49,437
Drainage Design:	\$ 5,850
<u>Reimbursable:</u>	<u>\$ 439</u>
Total:	\$82,741

Attachment C – Work Schedule

<u>Milestone</u>	<u>Task Description</u>	<u>Begin Date</u>	<u>End Date</u>
Task 1	Project Management	9/27/17	9/30/19
Task 2	Schematic and Environmental Revisions	9/27/17	2/12/18
Task 3	PS&E Design Phase Services	12/8/17	5/10/18
Task 4	Letting Phase	On TxDOT Letting Schedule for September 2019	

ATTACHMENT D - WA 43

PRIME PROVIDER NAME: Binkley & Barfield, Inc.  
 PROJECT NAME: IH-35 @ Ronald Reagan Blvd  
 Work Authorization #3 - Final Design Ronald Reagan Blvd  
 9/7/2017

Final Design Ronald Reagan Blvd	GRAND TOTAL	BBI	LJA	Alliance	CosMcLain	Inland	Riba-Misher	CD&P	TASK TOTAL
TASK NO/DESCRIPTION									
I. PROJECT MANAGEMENT									
SUBTOTAL		\$19,601	\$1,128						\$20,729
II. QAVC AND PROJECT SPECIFIC QA/QC PLAN									
SUBTOTAL		\$6,236							\$6,236
III. RR SCHEMATIC PRELIMINARY AND ROADWAY DESIGN REVISIONS (100%)									
SUBTOTAL		\$49,437							\$49,437
IV. ADDITIONAL TOPOGRAPHIC AND ROW SURVEYS REVIEW									
SUBTOTAL		\$0							\$0
V. IAJR AND TRAFFIC OPERATIONS UPDATES									
SUBTOTAL		\$0							\$0
VI. DRAINAGE DESIGN									
SUBTOTAL		\$0	\$5,850						\$5,850
VII. PUBLIC INVOLVEMENT									
SUBTOTAL		\$0							\$0
VIII. GEOTECHNICAL INVESTIGATIONS AND REPORT									
SUBTOTAL		\$0							\$0
IX. ENVIRONMENTAL STUDIES AND REPORT									
SUBTOTAL		\$0							\$0
X. BID PHASE SERVICES									
SUBTOTAL		\$0							\$0
TOTAL LABOR FOR DESIGN SERVICES	\$	\$75,324	\$ 6,078						\$ 81,402
PROJECT EXPENSE ESTIMATE	\$	439	\$ 439						\$ 439
TOTAL PROJECT COST	\$	\$75,324	\$ 7,417						\$ 82,741

Attachment D - WA #3  
RATE SCHEDULE  
Binkley & Barfield - Prime  
Schematic Development, Preliminary Design, Final Design and Construction Documents

PRIME PROVIDER NAME: Binkley & Barfield, Inc.  
PROJECT NAME: IH-35 @ Ronald Reagan Blvd  
Work Authorization #3 - Final Design Ronald Reagan Blvd  
#7/2017

TASK DESCRIPTION	PRINCIPAL	Sr. PROJECT MANAGER	SENIOR ENGINEER	PROJECT ENGINEER	DESIGN ENGINEER	ETT	PRODUCTION MANAGER	Sr. CAD MANAGER	CAD OPERATOR	CLERICAL	TOTAL LABOR HRS. & COSTS
<b>3. PROJECT MANAGEMENT</b>											
1. Project Coordination with County, FHWA and TxDOT (Jan-Oct 2017)	1	5	3								11
2. General Administration, internal progress meetings (EIT), including Sub-Contractor Coordination	2	40	20								62
3. Assist Weekly Program Meetings	3	3	2								5
4. Partner Coordination with Stakeholders	4	66	28								94
<b>HOURS SUB-TOTALS</b>		115	53								168
<b>CONTRACT RATE PER HOUR</b>		\$231.00	\$169.00								\$195.00
<b>TOTAL LABOR COSTS</b>		\$26,460.00	\$8,957.00								\$35,417.00
<b>% DISTRIBUTION OF STAFFING</b>		3.25%	7.22%								20.5%
<b>SUBTOTAL</b>											\$35,417.00

TASK DESCRIPTION	PRINCIPAL	Sr. PROJECT MANAGER	SENIOR ENGINEER	PROJECT ENGINEER	DESIGN ENGINEER	ETT	PRODUCTION MANAGER	Sr. CAD MANAGER	CAD OPERATOR	CLERICAL	TOTAL LABOR HRS. & COSTS
<b>5. MAJOR AND PROJECT SPECIFIC CAD PLAN</b>											
1. CAD for Ronald Reagan Blvd, Final Schematic and P&ID (April/May 2017)	2	4	12	18							36
<b>HOURS SUB-TOTALS</b>		4	12	18							36
<b>CONTRACT RATE PER HOUR</b>		\$231.00	\$169.00	\$115.00							\$195.00
<b>TOTAL LABOR COSTS</b>		\$927.00	\$2,028.00	\$2,070.00							\$4,025.00
<b>% DISTRIBUTION OF STAFFING</b>											
<b>SUBTOTAL</b>											\$4,025.00

TASK DESCRIPTION	PRINCIPAL	Sr. PROJECT MANAGER	SENIOR ENGINEER	PROJECT ENGINEER	DESIGN ENGINEER	ETT	PRODUCTION MANAGER	Sr. CAD MANAGER	CAD OPERATOR	CLERICAL	TOTAL LABOR HRS. & COSTS
<b>6. FOR ARCHITECTURAL PRIMARY AND SECONDARY DESIGN REVISIONS (100%)</b>											
1. Increase Number of Detail Levels from 1 to 2 based on Director of Materials Fields	1	9	2	4							15
2. Review T&E Design at 50% for Truck Stop access (1 User FR, other Road (see FR&WB) 2-user (SB Bridge)	2	7	2	28							37
3. Identify Personnel System to provide PCOP for Major Portion of the Interchange	3	1	2	4							7
4. Review & Enhance of Design Documents (REVISIONS) (100%) (100%)	4	2	1	13							16
5. Update Stationing Data	5	5	6	8							19
6. Update design sheets and modifications to the schedule	6	4	0	6							10
7. Preparing plan sheets for delivery and approval of notes, standards, bid items, etc.	7	0	0	32							32
<b>HOURS SUB-TOTALS</b>		24	20	116							160
<b>CONTRACT RATE PER HOUR</b>		\$231.00	\$169.00	\$115.00							\$195.00
<b>TOTAL LABOR COSTS</b>		\$5,544.00	\$3,380.00	\$13,260.00							\$22,184.00
<b>% DISTRIBUTION OF STAFFING</b>		3.12%	5.42%	20.8%							29.6%
<b>SUBTOTAL</b>											\$22,184.00

TASK DESCRIPTION	PRINCIPAL	Sr. PROJECT MANAGER	SENIOR ENGINEER	PROJECT ENGINEER	DESIGN ENGINEER	EIT	PRODUCTION MANAGER	Sr. CADD MANAGER	CADD OPERATOR	CLERICAL	TOTAL LABOR HRS. & COSTS
1. ADDITIONAL TOPOGRAFC AND BROW SURVEYS REVIEW	0	0	0	0	0	0	0	0	0	0	0
HOURS SUB-TOTALS	0	0	0	0	0	0	0	0	0	0	0
CONTRACT RATE PER HOUR	\$231.00	\$201.00	\$180.00	\$150.00	\$115.00	\$85.00	\$300.00	\$100.00	\$45.00	\$15.00	\$0.00
TOTAL LABOR COSTS	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
% DISTRIBUTION OF STAFFING											
SUBTOTAL											\$0.00

TASK DESCRIPTION	PRINCIPAL	Sr. PROJECT MANAGER	SENIOR ENGINEER	PROJECT ENGINEER	DESIGN ENGINEER	EIT	PRODUCTION MANAGER	Sr. CADD MANAGER	CADD OPERATOR	CLERICAL	TOTAL LABOR HRS. & COSTS
1. LAKE AND TRAPPE OPERATIONS UTILITIES	0	0	0	0	0	0	0	0	0	0	0
HOURS SUB-TOTALS	0	0	0	0	0	0	0	0	0	0	0
CONTRACT RATE PER HOUR	\$231.00	\$201.00	\$180.00	\$150.00	\$115.00	\$85.00	\$300.00	\$100.00	\$45.00	\$15.00	\$0.00
TOTAL LABOR COSTS	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
% DISTRIBUTION OF STAFFING											
SUBTOTAL											\$0.00

TASK DESCRIPTION	PRINCIPAL	Sr. PROJECT MANAGER	SENIOR ENGINEER	PROJECT ENGINEER	DESIGN ENGINEER	EIT	PRODUCTION MANAGER	Sr. CADD MANAGER	CADD OPERATOR	CLERICAL	TOTAL LABOR HRS. & COSTS
1. DRAINAGE DESIGN	0	0	0	0	0	0	0	0	0	0	0
ALSO SEE LIA DRAINAGE FEE ESTIMATE											
1. REVIEW DRAINAGE DESIGN TO COORDINATE WITH RAMP DESIGN	0	0	0	0	0	0	0	0	0	0	0
HOURS SUB-TOTALS	0	0	0	0	0	0	0	0	0	0	0
CONTRACT RATE PER HOUR	\$231.00	\$201.00	\$180.00	\$150.00	\$115.00	\$85.00	\$300.00	\$100.00	\$45.00	\$15.00	\$0.00
TOTAL LABOR COSTS	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
% DISTRIBUTION OF STAFFING											
SUBTOTAL											\$0.00

TASK DESCRIPTION	PRINCIPAL	Sr. PROJECT MANAGER	SENIOR ENGINEER	PROJECT ENGINEER	DESIGN ENGINEER	EIT	PRODUCTION MANAGER	Sr. CAD OPERATOR	CAD OPERATOR	CLERICAL	TOTAL LABOR HRS. & COSTS
NE PUBLIC INVOLVEMENT ALSO SEE RFP PUBLIC INVOLVEMENT FEE ESTIMATE											0
1. PUBLIC OUTREACH	0	0	0	0	0	0	0	0	0	0	0
HOURS SUB-TOTALS											0
CONTRACT RATE PER HOUR	\$231.00	\$201.00	\$182.00	\$150.00	\$113.00	\$85.00	\$200.00	\$100.00	\$45.00	\$45.00	\$0.00
TOTAL LABOR COSTS	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
% DISTRIBUTION OF STAFFING											
SUBTOTAL											\$0.00

TASK DESCRIPTION	PRINCIPAL	Sr. PROJECT MANAGER	SENIOR ENGINEER	PROJECT ENGINEER	DESIGN ENGINEER	EIT	PRODUCTION MANAGER	Sr. CAD OPERATOR	CAD OPERATOR	CLERICAL	TOTAL LABOR HRS. & COSTS
NE GEOLOGICAL INVESTIGATION AND REPORT ALSO SEE PARA 8.01.01 ESTIMATE											0
1. GEOLOGICAL INVESTIGATION AND REPORT	0	0	0	0	0	0	0	0	0	0	0
HOURS SUB-TOTALS											0
CONTRACT RATE PER HOUR	\$231.00	\$201.00	\$182.00	\$150.00	\$113.00	\$85.00	\$200.00	\$100.00	\$45.00	\$45.00	\$0.00
TOTAL LABOR COSTS	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
% DISTRIBUTION OF STAFFING											
SUBTOTAL											\$0.00

TASK DESCRIPTION	PRINCIPAL	Sr. PROJECT MANAGER	SENIOR ENGINEER	PROJECT ENGINEER	DESIGN ENGINEER	EIT	PRODUCTION MANAGER	Sr. CAD OPERATOR	CAD OPERATOR	CLERICAL	TOTAL LABOR HRS. & COSTS
NE ENVIRONMENTAL STUDIES AND REPORT											0
1. ENVIRONMENTAL STUDIES AND REPORT	0	0	0	0	0	0	0	0	0	0	0
HOURS SUB-TOTALS											0
CONTRACT RATE PER HOUR	\$231.00	\$201.00	\$182.00	\$150.00	\$113.00	\$85.00	\$200.00	\$100.00	\$45.00	\$45.00	\$0.00
TOTAL LABOR COSTS	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
% DISTRIBUTION OF STAFFING											
SUBTOTAL											\$0.00

TASK DESCRIPTION	PRINCIPAL	Sr. PROJECT MANAGER	SENIOR ENGINEER	PROJECT ENGINEER	DESIGN ENGINEER	EIT	PRODUCTION MANAGER	Sr. CAD OPERATOR	CAD OPERATOR	CLERICAL	TOTAL LABOR HRS. & COSTS
NE RFP PUBLIC SERVICES											0
1. ATTEND AND COORDINATE A PRE AND CONFERENCE	0	0	0	0	0	0	0	0	0	0	0
2. ASSESS THE COUNTY IN CONTRACT AND OPERING	0	0	0	0	0	0	0	0	0	0	0
3. TABULATE BIDS AND PREPARE PROJECT AWARD	0	0	0	0	0	0	0	0	0	0	0
HOURS SUB-TOTALS											0
CONTRACT RATE PER HOUR	\$231.00	\$201.00	\$182.00	\$150.00	\$113.00	\$85.00	\$200.00	\$100.00	\$45.00	\$45.00	\$0.00
TOTAL LABOR COSTS	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
% DISTRIBUTION OF STAFFING											
SUBTOTAL											\$0.00

LABOR NUMBERS BY TASK	TOTAL AMOUNT	TOTAL COST BY TASK
I. PROJECT MANAGEMENT	99	119,601.00
II. O&M AND PROJECT SPECIFIC O&M PLAN	33	14,724.00
III. SCHEMATIC AND DESIGN DOCUMENTS	200	849,437.00
IV. TOPOGRAPHIC AND ROW SURVEYS	0	0.00
V. PLANS & TRAFFIC OPERATIONS	0	0.00
VI. DRAINAGE	0	0.00
VII. PUBLIC INVOLVEMENT	0	0.00
VIII. SITE CHECK	0	0.00
IX. CONSTRUCTION	0	0.00
X. END PHASE SERVICES	0	0.00
<b>SUBTOTAL LABOR EXPENSES</b>	<b>608</b>	<b>878,222.00</b>
OTHER DIRECT EXPENSES		
Algebra (B of math) (Project B13 use)	0.673	0.00
Per diem	34,000	0.00
Meal	65,000	0.00
Photocopy B/W (11 x 17)	0.250	0.00
Printer Paper (11 x 17)	3,000	0.00
Color Ink/toner	3,500	0.00
CD Address	8,200	0.00
Photocopy Color (8.5 x 11)	6,750	0.00
Photocopy Color (11 x 17)	1,000	0.00
<b>SUBTOTAL OTHER DIRECT EXPENSES</b>		<b>878,222.00</b>
<b>SUMMARY</b>		
TOTAL COSTS FOR PRIME ONLY	\$	75,312.00
NON-SALARY (OTHER DIRECT EXPENSES) FOR PRIME ONLY	\$	71,334.00
<b>GRAND TOTAL</b>	<b>\$</b>	<b>146,646.00</b>

