



**SUPPLEMENTAL WORK AUTHORIZATION NO. 5
TO
WORK AUTHORIZATION NO. 1**

WILLIAMSON COUNTY ROAD BOND PROJECT:

Neenah Avenue Widening

This Supplemental Work Authorization No. 5 to Work Authorization No. 1 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 Stantec Consulting Services Inc. (the "Engineer").

WHEREAS, the County and the Engineer executed Work Authorization No. 1 dated effective March 2, 2015 (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 July 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 services under the Work Authorization is hereby increased from \$572,283 to \$642,283. The revised Rate 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: _____

Signature

Printed Name

Title

11.3.17

Date

COUNTY:

By: _____

Signature

Printed Name

Title

Date

OK
11/17/2017

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 - Rate Schedule

ATTACHMENT A
SERVICES TO BE PROVIDED BY THE COUNTY
DESIGN SERVICES FOR Neenah Avenue Widening

The project will require frequent and responsive communication with various departments within the County and City to obtain definition of project requirements and concurrence with concepts. The County's project manager will serve as STANTEC's point of contact and will be responsible for coordination with other County and City departments through the completion of the project.

The County's project manager will manage construction coordination if multiple contractors are working in the project area. The County's project manager will coordinate with utility companies and the Utility Consultant for the duration of the project. County's project manager will coordinate with the City of Austin Public Works department on tree mitigation and irrigation related items.

The County's project manager will close-out the permit and project as required with the City of Austin and its various departments including providing all required deliverables required for acceptance and closeout. The County's project manager will be responsible for all aspects of the TDLR inspection and working with the City of Austin for any corrective action required resulting from pre-project non-compliance items identified, and responding to TDLR.

The County is responsible for compliance with the Neenah Avenue Interlocal Cooperation Agreement City of Austin and Williamson County. The County's project manager will provide the City of Austin all information and deliverables as outlined in the ILA.

ATTACHMENT B
SERVICES TO BE PROVIDED BY THE ENGINEER
Choose an item. **FOR NEENAH AVE WIDENING**

PROJECT DESCRIPTION

Existing Facility

Neenah Avenue is an existing 40-foot wide 2-lane with shoulders, asphalt roadway from east of Olive Hill Drive eastward to the drive entrance to the St. Dominic Savio School drive entrance located in a right-of-way varying in width from 90-feet to 114-feet wide. The project limits include two (2) tee intersections at Altona Way and Solera Drive. The roadway is curbed and runoff is collected in three (3) storm drain systems which convey runoff to one (1) water quality pond and two (2) combination water quality and detention ponds. The project is located over the Edwards Aquifer Recharge Zone.

Proposed Facility

The proposed construction will widen Neenah Avenue along the southern side of the roadway to provide a 5-lane section consisting of two (2) 10-foot wide travel lanes in each direction with a center 11-foot wide two-way left turn lane within the existing right-of-way. The project improvements also include extension of a multiple barrel bridge class culvert under Neenah Avenue, improvements to Water Quality/Detention Pond #2, improvements to the swale along the north side of the roadway, and intersection improvements at Altona Way and Solera Drive. A water pollution abatement plan has been approved by TCEQ for the project. The project also includes construction of an 8-foot wide shared use path on each side of the roadway with an extension further east along the south side of the right-of-way to connect to the existing trail end.

Services to be provided by the Engineer:

1. **BIDDING PHASE SERVICES:**

- a. Prepare all applicable construction documents for bidding.
- b. Attend one (1) pre-bid meeting.
- c. Respond to bidder's questions during the bid period.
- d. Prepare up to three (3) project addenda during bid period.
- e. Analyze contractor bids, prepare bid tabulation, prepare and submit letter of recommendation for award to the apparent low bidder for one bid opening.

2. **CONSTRUCTION PHASE SERVICES:**

- a. Attend one (1) pre-construction conference.
- b. REQUESTS FOR INFORMATION - RFIs :
 - i. Attend up to one (1) site visit or meeting to gather data and information.

- ii. Respond to Contractor RFIs and provide design clarifications, additional information, and additional data to the GEC as required for plan interpretation.
- c. REVIEW CONTRACTOR SUBMITTALS & SHOP DRAWINGS:
 - i. Review Contractor submittals and/or shop drawings received from the GEC. Shop drawings will be reviewed for general conformance with the plans and specifications and will include providing a response of concurrence, exceptions or resubmittal notations to the Contractor.
- d. PLAN REVISIONS FOR FIELD CHANGES:
 - i. 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, descriptions and quantities of changes, CAD files, and will be sealed by a Professional Engineer. For errors and/or omissions refer to Article 18, Section D of the Contract.
- e. ATTEND MEETINGS:
 - i. Engineer will attend meetings at the project site or Williamson County representative office, as requested. (3 hours are budgeted)
 - ii. Visit the project site on request during construction to address questions on interpretation of plans. (3 hours budgeted)
- f. WATER QUALITY BMP CERTIFICATION:
 - i. 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.
 - ii. Engineer will prepare and submit to TCEQ a letter certifying that the permanent BMPs were constructed as designed.
- g. PERMIT CORRECTIONS:
 - i. Engineer will populate Site Plan Correction Request Form and summary letter.
 - ii. Engineer will request redstamp plans from City of Austin.
 - iii. Engineer will prepare redlined redstamp plans and cover sheet.

- iv. Engineer will submit for initial review and address up to one (1) round of comments from the City of Austin and resubmit.
- v. Engineer will provide replacement sheets to City for recordation, once approved.

3. PROJECT CLOSE-OUT

a. RECORD DRAWINGS

- i. Transmit CAD files to the County that include the design revisions/field changes coordinated through us during construction.

4. CONTRACT ADMINISTRATION :

- a. Engineer will respond to questions from the Client /GEC including emails and phone calls. (12 hours are budgeted)
- b. Engineer will prepare and submit up to twelve (12) monthly progress reports and invoices for the project to the Client. If the project requires more than 12 monthly progress reports additional services will be requested.
- c. Engineer will coordinate with project team members throughout bid, and construction phase of the project to distribute information. Coordination will include emails, phone calls, and electronic file exchange. (8 hours are budgeted)

5. 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 as outlined below. Documents will be submitted to the county's Representative, as requested and in accordance with our Contract rate table.
 - i. RFI's will be responded to in 7 business days and include electronic deliverables.
 - ii. Submittals and/or shop drawings will be responded to in 5 business days and include electronic deliverables.
 - iii. Electronic deliverables of plan sheets revised under item 2d will be provided to the GEC.
 - iv. Permit corrections will be routed to GEC for review and approval prior to processing with the City of Austin. Timelines for processing permit corrections will vary. Deliverables will be in electronic format only.

- v. CAD files will be delivered to the County 30 days after final completion of the roadway construction. Deliverables will be an electronic copy only.

6. SUBCONSULTANT ALLOWANCES

- a. Engineer will retain a geotechnical engineering sub-consultant (Terracon), who will perform geotechnical testing for the purposes of quality assurance (QA) and pond construction certification in accordance with item 2.f above. The Terracon scope of services includes sampling and laboratory testing of subgrade soils and clay liner soil, observation of clay liner installation, moisture density testing of the subgrade and clay liner, and reporting.

7. REIMBURSABLES/REPRODUCTION

- a. Reproduction, courier, and delivery services will be provided for this project and billed in accordance to Consultant's Standard Rate Schedule. In addition, minor out-of-pocket expenses for outside reproduction, travel expenses, and courier fees, etc. incurred will be billed at Cost. A preliminary budget for reimbursables/reproduction has been estimated once this budget has been exceeded only electronic deliverables uploaded to the Project Wise website will be provided unless additional services are authorized.

8. ASSUMPTIONS

- a. Services above will be performed on an hourly basis until the contract capacity has been reached.
- b. Coordination with City of Austin Inspection Division is not included.
- c. Coordination with City of Austin Right of Way Management, or revisions to the approved Traffic Control Plans and Details is not included.
- d. Coordination with Utility companies is not included.
- e. Construction phase services for tree mitigation and irrigation elements of the project is not included.
- f. No construction phase surveying or construction staking services are included.
- g. This project will not encounter significant opposition from City, County, or State review agencies, neighborhood groups, environmental groups, etc.
- h. GEC is responsive and makes timely decisions.

- i. GEC directs Contractor's actions based on recommendations provided by Consultant.
- j. GEC will manage construction coordination if multiple Contractors are working in the project area.
- k. GEC will provide third party inspection, if required.
- l. GEC will provide TDLR Inspection.
- m. GEC will provide City of Austin with all deliverables and information as required in the ILA.
- n. GEC will coordinate with Utility consultant and City of Austin Public Works Department for acceptance and close-out items required by City of Austin.

9. **EXCLUSIONS**

The following items are excluded from this proposal but can be provided as an additional service:

- a. Field engineering during construction.
- b. Structural design of any kind.
- c. Excessive interpretation of contract drawings and specifications for Contractor who does not familiarize himself with the contract drawings and specifications.
- d. Geotechnical engineering, pavement design, materials testing, soil borings or analysis, unless specifically identified above.
- e. Environmental site assessments, delineation of jurisdictional waters, endangered species and KARST feature investigations, environmental investigations, permitting or coordination with environmental agencies of any kind.
- f. Construction inspection services.
- g. Field changes or change order requests resulting from errors made by the Contractor.
- h. Coordination, scheduling, or performance of construction materials testing and inspection.
- i. FEMA CLOMR or LOMR preparation.

- j. Record Drawings for Tree Mitigation Sheets, Irrigation systems and/or utility improvements.
- k. Plan revisions for irrigation system design accommodations.
- l. City of Austin acceptance and close-out services including but not limited to: letter of concurrence, record drawings, maps & records submittals or coordination, construction summaries, water quality pond certification, maintenance bond, and coordination of any kind associated with City of Austin close-out requirements.
- m. Permit corrections for tree mitigation and irrigation items are not included.

**Neenah Ave Widening SWA #5
Attachment D - Rate Schedule**

Scope of Work		#	190	175	225	140	130	110	80	
Task		Qty	SR PM	PM	PRINCIPAL	CONSULTANT	ASSOCIATE CONSULTANT	SR. TECHNICAL DESIGNER	ADMIN	Fee
1 Bidding Phase services										
a	Prepare all applicable construction documents for bidding		7.5			4				\$ 9,805.00
b	Attend 1 pre-bid meeting		2						4	\$ 2,305.00
c	Respond to bidder's questions during the bid period		4							\$ 380.00
d	prepare up to three (3) project addenda during bid period.		6			12.0	12.0			\$ 760.00
e	analyze contractor's bids, prepare bid tabulation, and make			4.0		8.0			2.0	\$ 4,380.00
										\$ 1,980.00
2 Construction Phase Services										
a	attend 1 preconstruction conference		3							\$ 44,035.00
b	RFI's									\$ 570.00
i	Attend site visit/meeting			2.0		2.0				\$ 630.00
ii	Prepare response			10.0		10.0	20.0			\$ 5,750.00
c	Submittals/Shop Drawings			10.0		20.0				\$ 4,550.00
d	Plan Revisions for field changes		4.0	16.0		32.0	68.0			\$ 16,880.00
e	Meetings									\$ -
i	Williamson County Meetings	1	3.0							\$ 570.00
ii	Project Site Meetings	1	3.0							\$ 570.00
f	water quality bmp certification		4.0				4.0		2.0	\$ 1,440.00
i	observation									
ii	letter									
g	Permit Corrections									
i	populate site plan correction form					2.5				\$ -
ii	request red stamp plans			1.0		2.5				\$ 350.00
iii	prepare redlines			3.0		10.0	20.0			\$ 525.00
iv	submit for initial review and address comments			5.0		10.0	20.0		5.0	\$ 4,525.00
v	provide replacement sheets and pick-up after recordation					5.0	10.0		5.0	\$ 5,275.00
										\$ 2,400.00
3 Project Closeout										
a	Record Drawings									\$ 715.00
i	Submittal for CAD files			1.0		2.0	2.0			\$ 715.00
4 Contract Administration										
a	respond to stakeholder communications			12.0						\$ 6,400.00
b	Invoicing and progress Reports			12.0					12.00	\$ 2,100.00
c	Team Coordination			4.0		2.0	2.0			\$ 3,060.00
6 Subconsultant Allowance										
a	Terracon									\$ 1,240.00
						8411				\$ 8,410.80
7 Reimbursable Reproduction										
a	Courier Trips									\$ 634.20
b	Reproduction - 11x17									\$ 190.20
c	Reproduction - 24x36									\$ 30.00
d	Mileage									\$ 200.00
Total Hours			36.5	80.0	0.0	122.0	158.0	0.0	30.0	\$ 70,000.00



ATTACHMENT D.1
COST ESTIMATE FOR
POND CONSTRUCTION MATERIALS TESTING SERVICES
NEENAH AVENUE WIDENING
Terracon Proposal No. P96161358 - Revision 2

Water Quality Pond Observation				
Service	Quantity	Unit	Unit Rate	Estimate
Senior Engineer Technician, per hour	84	Hour	\$ 48.00	\$ 4,032.00
Moisture/Density Curve (ASTM D698)	2	Each	\$ 170.00	\$ 340.00
Atterberg Limits (ASTM D4318)	2	Each	\$ 55.00	\$ 110.00
Sieve Analyses (ASTM C136 & C117)	2	Each	\$ 95.00	\$ 190.00
Permeability (ASTM D5084)	2	Each	\$ 350.00	\$ 700.00
Field Nuclear Density (ASTM D2922 & D3017)	18	Each	\$ 18.00	\$ 324.00
Vehicle Mileage	336	Mile	\$ 0.55	\$ 184.80
Subtotal				\$ 5,880.80

This estimate is based on the an assumed schedule of 7 days for pond sitework. The proposal assumes that a 12" clay liner will be installed according to Sheet 123 of 256 in the civil plans.

V. Project Manager	22	Hour	\$ 115.00	\$ 2,530.00
---------------------------	----	------	-----------	--------------------

ESTIMATE TOTAL				\$ 8,410.80
-----------------------	--	--	--	--------------------