



**SUPPLEMENTAL WORK AUTHORIZATION NO. 2
TO
WORK AUTHORIZATION NO. 1**

PROJECT E: Brushy Creek Trail Extension Along Hairy Man Rd. ("Project")

**PLANNER/ LANDSCAPE
ARCHITECT/ ARCHITECT/
ENGINEER:**

**RVE, Inc. dba
RVi Planning + Landscape Architecture ("A/E")
Mark Smith, PLA, Vice President
1611 W. 5th St., Suite 175
Austin, TX 78703**

COUNTY'S DESIGNATED

**REPRESENTATIVE: Williamson County Parks Department
Attn: Director of Parks
219 Perry Mayfield
Leander, Texas 78641**

THIS SUPPLEMENTAL WORK AUTHORIZATION NO. 2 TO WORK AUTHORIZATION NO. 1, is made pursuant to the terms and conditions of the Agreement for Planning, Design & Engineering Services, dated **August 4, 2020, and becomes effective as of the latest date of the signatories indicated at the conclusion of this document (the "Effective Date"), by and between **Williamson County**, a body corporate and politic under the laws of the State of Texas ("County") and A/E.**

ARTICLE 1

The Planning, Design and Engineering Services provided by A/E under the Work Authorization are hereby modified as set forth in **Attachment A** of this Supplemental Work Authorization.

ARTICLE 2

The maximum amount payable to A/E for Basic Services under the Work Authorization is hereby **modified from Three Hundred Seventy-Four Thousand, Five Hundred Sixty-Nine dollars (\$ 374,569) to Three Hundred Ninety Thousand, Seven Hundred Ninety-Five dollars (\$ 390,795)**, as set forth in **Attachment B** of this Supplemental Work Authorization.
Payment to

A/E for the services established under this Supplemental Work Authorization shall be made in accordance with the Agreement.

ARTICLE 3

The above referenced Work Authorization termination date shall be modified to **December 31, 2022**, as set forth in **Attachment C** of this Supplemental Work Authorization. The Planning, Design and Engineering Services set forth in **Attachment A** of this Supplemental Work Authorization shall be fully completed on or before said date unless extended by an additional Supplemental Work Authorization.

ARTICLE 4

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

ARTICLE 5

County believes it has sufficient funds currently available and authorized for expenditure to finance the costs of this Supplemental Work Authorization. A/E understands and agrees that County's payment of amounts under this Supplemental Work Authorization is contingent on County receiving appropriations or other expenditure authority sufficient to allow County, in the exercise of reasonable administrative discretion, to continue to make payments under the Agreement. It is further understood and agreed by A/E that County shall have the right to terminate the Supplemental Work Authorization at the end of any County fiscal year if the governing body of County does not appropriate sufficient funds as determined by County's budget for the fiscal year in question. County may affect such termination by giving written notice of termination to A/E.

ARTICLE 6

This Supplemental Work Authorization is hereby accepted and acknowledged below.

A/E:

RVE, Inc. dba
RVi Planning + Landscape Architecture

By: 
Signature

Mark W. Smith, PLA
Printed Name

Vice President
Title

Date Signed: May 24, 2022

COUNTY:

Williamson County, Texas

By: _____
Signature

Printed Name

Title

Date Signed: _____

ATTACHMENT A

BASIC SCOPE OF SERVICES

THE FOLLOWING SCOPE OF SERVICES IS INTENDED TO BE CONSISTENT WITH THE AGREEMENT. TO THE EXTENT THIS SCOPE OF SERVICES IS INCONSISTENT WITH THE AGREEMENT, THE AGREEMENT WILL SUPERSEDE THE SCOPE OF SERVICES AND WILL BE CONTROLLING.

In consideration of the Basic Fee provided in the Agreement, A/E shall perform the following Basic Services, based on standard planning, landscape architectural, architectural, and engineering practices:

SCOPE OF WORK:

Brushy Creek Regional Trail
Hairy Man Rd. near Sea Ash Cir. in Round Rock, TX and
Sam Bass Rd. near Faith Missionary Baptist Church in Round Rock, TX
Williamson County Precinct #1
Funding: P551

BRUSHY CREEK TRAIL along HAIRY MAN RD.

PARKS BOND PROGRAM 2020-E (4/26/21)



SCOPE OF WORK

1. DETERMINE & DESIGN CONNECTION FROM EXIST TRAIL TERMINUS ON HAIRY MAN RD. TO CREEK BEND BLVD.
2. DETERMINE & DESIGN TRAILHEAD AT FAITH MISSIONARY BAPTIST CHURCH AND CONNECTION TO EXISTING ADJACENT TRAIL TERMINUS ON BRUSHY CREEK

DESIGN CHALLENGES

- A. SAULS RANCH SUBDIVISION
- 1/4-1/2 MI. EASEMENT ON EAST SIDE OF HAIRY MAN RD.
 - \$100,000 MATCHING FUNDS FOR CONSTRUCTION OF TRAIL
 - HAIRY MAN RD. CROSSINGS @ NORTH & SOUTH NEIGHBORHOOD ENTRANCES
- B. SAULS RANCH SUBDIVISION HAS FIRST RIGHT OF DEVELOPMENT FOR SAULS PROPERTY
- C. FAITH MISSIONARY BAPTIST CHURCH NEGOTIATION FOR TRAILHEAD
- ACQUIRE OR LEASE PROPERTY
- D. IDENTIFY & COORDINATE KEY STAKEHOLDERS / PARTNERS
- COUNTY REAL ESTATE ATTORNEY = CHARLIE CROSSFIELD
 - WILCO ROAD & BRIDGE DIVISION
 - SAULS RANCH SUBDIVISION DEVELOPER
 - FAITH MISSIONARY BAPTIST CHURCH

ALLOCATED FUNDS

ITEM 1 = \$2,505,000 (INCLUDING "SOFT COSTS")

Determine and design connection from the existing Brushy Creek Regional Trail terminus at Hairy Man Rd. to Creek Bend Blvd. Determine and design a trailhead adjacent to Faith Missionary Baptist Church and connection to the existing trail terminus on Brushy Creek.

Design services shall be conducted in phases as outlined herein. Phases may be combined to expedite design process when defined in Attachment C – Production Schedule. Individual phases or groups of phases shall be authorized herein or by fully executed Supplemental Agreement, Work Authorization, or Supplemental Work Authorization thereto.

Phase I+II+III – INVENTORY, PRE-DESIGN, AND TRAIL ALIGNMENT PLAN

Upon receipt of written Notice to Proceed, A/E shall accomplish the following services:

- A. Conduct a project initiation meeting and obtain data.
- B. Assemble existing data and information into a base map of the proposed trail corridor area and identify property ownership from current appraisal district data.
- C. Conduct on-site inventory with team members and County to determine surrounding influences, site conditions, environmental and hydrologic/floodplain constraints, erosion, and access.
- D. Assess all relevant data including applicable regulatory requirements, development standards, property limits, and identify opportunities and constraints.
- E. Identify property ownership and acquisition or access easement requirements necessary to develop the trail.
- F. Identify anticipated permitting requirements (FEMA, US Army Corp of Engineers, US Fish and Wildlife/Texas Parks and Wildlife, Texas Historic Commission, Texas Commission on Environmental Quality, Brazos River Authority, Williamson County, County Floodplain and TxDOT).
- G. Prepare a Preliminary Trail Alignment Plan (PTA) exhibit showing preliminary alignment, property ownership, and easement map for the entire trail corridor.
- H. Provide PTA exhibit for review and comment by County.
- I. Finalize PTA exhibit per County comments.

Deliverables: Digital PDF format Preliminary Trail Alignment Package.

Phase IV - SCHEMATIC DESIGN - 30% (for reduced scope)

Upon County acceptance of previous phase, A/E shall proceed with the following services:

- A. Prepare and submit schematic design for the Project (of approximately 3,700 LF) including:

1. Coordinate the trail alignment assessment with the design team and County, including
 - a. Walk the site and mark/flag proposed trail route and up to four (4) possible connections.
 - b. Create a digital photographic inventory as a resource of existing conditions.
 - c. Identify opportunities and constraints
 - d. Initiate habitat and geologic assessments
2. Conduct preliminary meeting(s) and/or research with regulatory entities to determine permit requirements including Pre-development meeting with City of Round Rock Planning Development Services and Floodplain Administrator.
 - a. Site Plan Development permit through the City of Round Rock for the trailhead parking or restroom is not included in the basic services of this Work Authorization.
3. Prepare and submit schematic design studies including initial plan illustrating:
 - a. One (1) Trail alignment revision of existing schematic alignment including one (1) alternative, if applicable.
 - b. Up to five (3) retaining walls
 - c. Trail access points
 - d. Faith Missionary Baptist Church trailhead:
 - i. Parking, circulation
 - ii. Prefabricated restroom building Trail Connection
 - iii. Drainage
 - iv. Security gate, fencing, and/or bollards
 - e. Up to five (3) Drainage Crossings
 - f. Seating areas
 - g. Interpretive signage locations
4. Review schematic plan design studies, including preliminary trails alignment alternatives, with Registered Accessibility specialist and County maintenance and operations staff.
5. Prepare and submit opinion of probable cost in sufficient detail to allow County to make informed decisions about the budget and scope of the project.
 - a. Opinions of probable costs are based on experience and judgment of A/E and are merely opinions. A/E does not warrant that actual costs will not

vary from those opinions because among other things, A/E has no control over market conditions.

6. Prepare and submit complete Schematic Plan Design Package including design studies, Schematic Alignment Roll Plot (with a horizontal scale of 100-ft, and vertical scale of 10-ft) and opinion of probable costs for CoW1ty review.
 7. Meet with representatives of stakeholder groups, which may include Faith Missionary Baptist Church, Fern Bluff MUD, as arranged by the County, to discuss possible design criteria and general needs, up to (4) meetings.
 8. Structural Engineering is not included in the Basic Services of this Work Authorization.
- B. Prepare and submit a topographic survey along proposed route (approximately 4,000-ft by 75-ft wide minimum). AutoCAD file in surface coordinates shall utilize NAD 1983 (HARN 1993) as the datum.
1. Locate all visible utility features and overhead obstructions along the route.
 2. Locate and tag hardwood trees 8-in or greater.
 3. Graphically locate property lines within the limits of the survey.
 4. Provide up to four (3) metes & bounds descriptions with sketch for the use by County to acquire easements and/or simple acquisition of properties along route.
 5. Flow lines and inverts of utilities will not be obtained.
 6. County will secure right-of-entries for surveys.
- C. Conduct a Texas Commission on Environmental Quality (TCEQ) Geologic Assessment investigation and compile a report for inclusion in the project Water Pollution Abatement Plan as required under the Edwards Aquifer Rules (TAC Chapter 213).
1. The report will include a separate cover letter addressing the potential for any geologic features identified to be associated with habitat for endangered karst invertebrate species known from the area.
 2. County will determine map scale at which the WPAP site maps will be submitted to the TCEQ.
 3. County will secure rights-of-entry for field surveys.
- D. Produce Cultural Background Review using previously prepared Hicks & Co. review as basis.

- E. Provide deliverables in accordance with County's Design Submittal Guidelines.

Deliverables: Digital Schematic Design Package

Phase V - DESIGN DEVELOPMENT – 60% (for reduced scope)

Upon County acceptance of previous phase, A/E shall proceed with the following services:

- A. Consult freely with County concerning the principal phases of the work and immediately advise County of any unusual requirements or features not apparent during execution of the Schematic Design Phase.
- B. Prepare and submit Design Development Documents to fix and describe the size and character of the project, including civil, structural, and any specialty systems and materials that are necessary.
- C. Provide up to five (3) property appraisal exhibits that depict easement or acquisition areas needed for Trail and Trail Construction. This may include one (1) appraisal exhibit for a temporary construction easement.
- D. Review design for conformance with the Americans with Disabilities Act and Texas Accessibility Standards.
- E. Prepare and submit 60% drawings (11x17 plans), cost estimates and meet with County staff to review 1 submittal. Including:
 - 1. Title Sheet
 - 2. Index
 - 3. Estimate and Quantity Sheets - (2 sheets)
 - 4. Project Layout and Survey Control Sheet - (2 sheets)
 - 5. General Notes Sheets - (15 Sheets)
 - 6. Typical Sections - (2 sheets)
 - 7. Shared Use Path Plan and Profile Sheets (1-in = 50-ft scale) - (8 sheets)
 - 8. Miscellaneous Path Details - (1 sheet)
 - 9. Parking design sheets for trail head parking at Faith Missionary Baptist Church
 - 10. Water and Wastewater plans for prefabricated restroom connections per manufacturer or 6-ft from connection point.
 - 11. Utility (power and communication) coordination and plans including: site lighting for parking lot, FC study, new electrical service, power/comm. connection to prefab restroom, exterior com-check.

12. Drainage area and calculations - for cross culverts only (5 sheets)
 13. Drainage plan and profiles - for cross culverts (4 culverts/sheets)
 14. WPAP (includes only vegetative filter strips)
 15. HEC-RAS & HEC-HMS evaluation of the proposed river crossing
 16. Drainage Memo
 17. Prepare Floodplain Permit
 18. SW3P with TCP - (4 sheets double banked)
 19. Standard Details - (28 sheets)
 20. Retaining wall plans and profiles
- F. Prepare and submit a Design Development level cost estimate in a form acceptable to County.
- G. Meet with County up to three (3) times.
- H. Coordinate Utility and conflict matrix.
- I. Provide up to (3) metes & bounds descriptions with sketch for use by County to acquire easements and/or simple acquisition of properties along route.
- J. **Geotechnical Investigation Scope**
Based on the available information, HVJ SCTx proposes drilling six (6) borings to depths of 15 feet. Five (5) borings will be associated with the trail while one (1) boring will be drilled for the parking lot and prefabricated restroom building. Soil samples will be obtained using Shelby tubes and/or split-spoon samplers. Field-testing of soil samples will include pocket penetrometer in the cohesive soils and Standard Penetration Test (SPT) in the cohesionless soils. The borings will be terminated if auger refusal occurs due the presence of shallow limestone bedrock. After completion of drilling, the soil borings will be properly backfilled with bentonite chips to match the existing grade.

All the field sampling and laboratory tests will be performed according to typical geotechnical standards, where applicable, or with other well-established procedures. HVJSCTx will perform appropriate laboratory tests on soil samples recovered from the borings. Laboratory testing will include moisture content, liquid limit, plastic limit, unconfined compressive strength and percent passing the #200 sieve tests.

Engineering Report Deliverables

The deliverables will include a draft geotechnical report. The final geotechnical report will be prepared following receipt of comments from the design team. In general, the following items will be included in HVJ SCTx geotechnical report:

1. Site Vicinity map
2. Geology map
3. Plan of borings
4. Boring logs
5. Generalized subsurface conditions
6. Groundwater conditions
7. Shallow foundation design parameters for support of the prefabricated restroom building
8. General earthwork and select fill recommendations

The above-described report will be prepared by an engineer specializing in soil mechanics after reviewing available boring and field data.

- K. Additional Services include Structural Engineering (for retaining walls and other structural elements) which needs to be initiated during this Phase
- L. Coordinate design plans with City of Round Rock.
 1. Additional Services include any permitting beyond initial coordination.
- M. Coordinate with Williamson County Floodplain Administrator.
 1. Additional Services include any additional permitting.
- N. Obtain Antiquities Permit from Texas Historical Commission (THC) for reduced site limits.
 1. Conduct Pedestrian Survey and Shovel Testing/Trenching
 - i. Provide test pits for positive Shovel Tests
 - ii. Additional Services include expenses associated with backhoe trenching and curation fees not included in Permit fee.
 2. Investigate previously recorded sites
 3. Additional Services include changes to report or permit amendments because of design changes resulting responses to comments from County or THC.
- O. Prepare and submit TCEQ WPAP submittal package outlining Project development and describing treatment of storm water runoff.
 1. Prepare report on forms and in format required by TCEQ
 2. Escort TCEQ representatives on one (1) site reconnaissance.
 3. Review fees will be paid by County.

Deliverables: Digital Design Development Package

Phase VI - CONSTRUCTION DOCUMENTS – 90% & 100% (for reduced scope)

Upon County acceptance of previous phase, A/E shall proceed with the following services:

- A. Consult freely with County concerning the principal phases of the work immediately advise County of any unusual requirements or features not apparent during execution of the Schematic Design or Design Development Phases.
- B. Prepare and submit 90% plans, specifications and engineering calculations (without professional seals) setting forth in detail the work including:
 - 1. Plan, section, elevation, and typical detail drawings, that set forth in reasonable detail the requirements for construction of the Project components, including depiction of their size, shape, dimensions, and locations.
 - 2. Specifications that identify the materials, equipment, workmanship and quality standards (or performance criteria), for project components.
- C. Prepare and submit a detailed cost estimate of the project on a form acceptable to County.
- D. Prepare and submit a construction schedule with a Gantt chart or other County approved format which lists the anticipated major activities required to complete the project.
 - 1. Consult with County on construction sequencing path and timeline based on 90% Construction Document submittal, available funding, and property acquisitions. Prepare scope(s) for Additional Services or Work Authorization.
- F. Coordinate with the Texas Department of Licensing and Regulation (TDLR).
 - 1. Register Project with TDLR
 - 2. Submit Forms to act as "Owner's Agent"
 - 3. Submit Plans to Registered Accessibility Specialist (RAS)
 - 4. Address comments and modify plans to comply with the Texas Accessibility Standards (TAS) and Americans with Disabilities Act.
 - 5. Registration, Review and Inspection fees will be paid by County.
- G. After regulatory clearances confirmed and approval by County of 90% Construction Document deliverables, prepare final signed and sealed 100%

PS&E documents for the entire Project and its component parts to be included in County Bid Package.

1. The Project detailed cost estimate shall not exceed the project construction budget as approved in writing by County.
- H. Present plans to County Commissioners' Court as necessary to answer any relevant questions.

Deliverables: Digital Unsealed Construction Document Package.
Digital Sealed Construction Document Package.

Additional Services

Additional services must be approved by County in advance. Additional Services may include, but not be limited to, the following:

- A. Preparation of Phased bid package(s) with reduced scope of items defined herein, including construction drawings and specifications.
- B. Phasing, multiple add alternates or multiple bid packages not outlined in the scope of services will be additional services.
- C. Detailed Flood Plain Analysis
- D. TCEQ Fee
- E. FEMA Conditional Letter of Map Revision (CLOMR) and/or Letter of Map Revision (LOMR)
- F. Land Acquisition services and services related to ROW acquisition not described in the Scope of Services
- G. Design Plans for the relocation of utilities.
- H. Plumbing, mechanical, or structural engineering services for the Prefabricated Restroom.
- I. Easement acquisition or vacation including preparation of easement documents other than those described in Scope of Services
- J. Legal Lot Determinations
- K. Preparation of multi-use agreement(s) and exhibits
- L. Assistance or representation in litigation concerning the property of proposed project

- M. Traffic Impact Analysis
- N. TxDOT Standards and Specification will be used to supplement Williamson Co. Standards and Specifications.
- O. Drainage models will be designed to FEMA 500-year storm. Upgrading to ATLAS 14 is not included.
- P. TxDOT roadway modifications
- Q. Traffic Control will be shown on SW3P sheets
- R. Cross Sections for full trail not included
- S. Construction Staking
- T. Conflict Resolution
- U. Preparation and processing of Waivers, Variances or Exceptions
- V. Services required after final acceptance of construction work
- W. Revisions to drawings previously approved by the County and regulatory entities due to changes in: Project scope, budget, schedule, unforeseen subsurface construction conditions or when such revisions are inconsistent with written approvals or instructions previously given; enactment or revision codes, laws, or regulations subsequent to the preparation of such documents.
- X. Preparation of presentation materials for marketing or purposes other than those described in Scope of Services
- Y. Public or other presentations beyond those described in Scope of Services
- Z. Provide consultation, drawings, reports, and other work products related to permits, approvals and ordinances not described in the Scope of Services
- AA. Coordination with the utility companies for the design and construction of telephone and gas service will be provided by County.
- BB. Preparation of record documents from contractor's construction record drawings
- CC. Providing services other than those outlined in the Scope of Services.
- DD. Utility relocation design
- EE. Backhoe trenching is not expected and therefore not included.

ATTACHMENT B

FEE SCHEDULE

This schedule indicates fees by Phase of the Basic Fee:

\$ 390,795 100%

24%	RVi Planning + Landscape Architecture	\$ 93,482	
51%	Pape-Dawson Engineers (Civil)	\$ 201,195	
16%	Inland Geodetics (Surveyor)	\$ 62,867	
2%	Bay Electrical Engineers (MEP)	\$ 8,500	
1%	Campbrian Environmental	\$ 4,500	
1%	Jim Rodgers (ParK Consultant)	\$ 3,000	
1%	Altura (RAS)	\$ 2,500	
4%	HVJ (Geotechnical)	\$ 14,751	
Phase I+II+III - INVENTORY, ENGAGEMENT, AND TRAIL PLAN		\$ 16,515	4%
	RVi Planning + Landscape Architecture	\$ 13,905	
	Pape-Dawson Engineers (Civil)	\$ 2,610	
	Inland Geodetics (Surveyor)	N/A	
	Bay Electrical Engineers (MEP)	N/A	
	Campbrian Environmental	N/A	
	Jim Rodgers (ParK Consultant)	N/A	
	Altura (RAS)	N/A	
	HVJ (Geotechnical)	N/A	
Phase IV - SCHEMATIC DESIGN (30%)		\$ 147,931	38%
	RVi Planning + Landscape Architecture	\$ 27,934	
	Pape-Dawson Engineers (Civil)	\$ 48,430	
	Inland Geodetics (Surveyor)	\$ 62,867	
	Bay Electrical Engineers (MEP)	\$ 1,200	
	Campbrian Environmental	\$ 4,500	
	Jim Rodgers (ParK Consultant)	\$ 3,000	
	Altura (RAS)	N/A	
	HVJ (Geotechnical)	N/A	
Phase V - DESIGN DEVELOPMENT (60%)		\$ 124,885	32%
	RVi Planning + Landscape Architecture	\$ 28,459	

Pape-Dawson Engineers (Civil)	\$	79,275	
Inland Geodetics (Surveyor)	N/A		
Bay Electrical Engineers (MEP)	\$	2,400	
Campbrian Environmental	\$	-	
Jim Rodgers (ParK Consultant)	N/A		
Altura (RAS)	N/A		
HVJ (Geotechnical)	\$	14,751	
Phase VI - CONSTRUCTION DOCUMENTS (90% & 100%)		\$ 101,464	26%
RVi Planning + Landscape Architecture	\$	23,184	
Pape-Dawson Engineers (Civil)	\$	70,880	
Inland Geodetics (Surveyor)	N/A		
Bay Electrical Engineers (MEP)	\$	4,900	
Campbrian Environmental	N/A		
Jim Rodgers (ParK Consultant)	N/A		
Altura (RAS)	\$	2,500	
HVJ (Geotechnical)	N/A		

ATTACHMENT C

PRODUCTION SCHEDULE

A/E agrees to complete the professional design services called for in **Attachment A** of this Supplemental Work Authorization within **Eight Hundred Seventy-Eight (878) calendar days** from the date of Work Authorization #1.

The above time limits may, for good cause, be extended, in writing, by County as the Project proceeds.

The schedule below indicates various project milestones and target dates.
Standard end-of-phase review periods for County shall be (10) business days minimum.

Work Authorization #1 Execution Date **08/04/20**

Phase I+II+III - INVENTORY, ENGAGEMENT, AND TRAIL PLAN

Notice to Proceed	08/11/20
Preliminary Design Report deliverables	09/10/20
County written authorization to proceed to next phase	05/18/21

Phase IV - SCHEMATIC DESIGN

Prepare Appraisal Exhibits for County	07/02/21
30% Plans, Specifications and Estimate deliverables	07/16/21
County written authorization to proceed to next phase	07/28/21

Phase V - DESIGN DEVELOPMENT

Geotechnical services NTP	06/01/22
Geotechnical Report deliverables	07/06/22
60% Plans, Specifications and Estimate deliverables	08/05/22
County written authorization to proceed to next phase	08/16/22

Phase VII - CONSTRUCTION DOCUMENTS

90% Plans, Specifications and Estimate deliverables	10/14/22
County written authorization to proceed to 100% CDs	10/27/22
100% Plans, Specifications and Estimate deliverables	11/25/22

5/19/2022

Brushy Creek Trail Extension Along Hairy Man Rd.

Supplemental Work Authorization Termination Date

12/30/22