

WORK AUTHORIZATION

WORK AUTHORIZATION NO. 10

PROJECT: Wyoming Springs Drive Extension – Environmental Services

This Work Authorization is made pursuant to the terms and conditions of the Williamson County Contract for Environmental Services, being dated May 9, 2024 and entered into by and between Williamson County, Texas, a political subdivision of the State of Texas, (the "County") and SWCA Environmental Consultants (the "Firm").

Part 1. The Firm will provide the following Environmental 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 \$110,347.00.

Part 3. Payment to the Firm 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 July 28, 2025, and shall terminate on July 31, 2026. The Firm’s Services set forth in 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. County believes it has sufficient funds currently available and authorized for expenditure to finance the costs of this Work Authorization. Firm understands and agrees that County’s payment of amounts under this Work Authorization is contingent on the County receiving appropriations or other expenditure authority sufficient to allow the County, in the exercise of reasonable administrative discretion, to continue to make payments under this Contract. It is further understood and agreed by Firm that County shall have the right to terminate this Contract 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 effect such termination by giving written notice of termination to Firm.

Part 7. This Work Authorization is hereby accepted and acknowledged below.

Continued next page

EXECUTED this _____.

FIRM:

SWCA Environmental Consultants

By: 
Signature

Matthew McMillan
Printed Name

Natural Resources Director – Austin
Title

COUNTY:

Williamson County, Texas

By: _____
Signature

Printed Name

Title

LIST OF ATTACHMENTS

Attachment A: Services to be Provided by the County

Attachment B: Services to be Provided by the Firm

Attachment C: Work Schedule

Attachment D: Fee Schedule

APPROVED

By Christen Eschberger at 4:24 pm, Jul 30, 2025

ATTACHMENT A
SERVICES TO BE PROVIDED BY THE COUNTY
FOR THE WYOMING SPRINGS DRIVE EXTENSION

WORK AUTHORIZATION NO. 10

PROJECT: Wyoming Springs Drive Extension – Environmental Services

In general, Williamson County and its representatives to their best efforts will render services as follows:

1. Name, business address, and phone number of County's project manager.
2. Assistance to the Firm, as necessary, with obtaining data and information from other local, regional, State, and Federal agencies required for this project.
3. Obtain Rights-of-entry from landowners that are unwilling to grant access to the Firm.
4. Provide available appropriate County data on file, plans, and specifications that are deemed pertinent to the completion of the work required by the scope of services (including previous hydraulic studies, models, previous reports and studies, available existing traffic counts, and design year traffic projections).
5. Provide available criteria and full information as to the County's requirements for the project. Provide examples of acceptable format for the required deliverables.
6. Provide timely reviews and decisions necessary for the Firm to maintain the project work schedule. Review recommendations offered by the Firm, progress of work, and final acceptance of all documents.
7. Submittal of documentation to regulatory agencies for review and comment, when specified.
8. Support project development efforts with stakeholders and coordinate meetings and interface with stakeholders, as needed.
9. Post and maintain project information for public consumption on the County website.
10. Assist with Coordination between the Firm and the County's other subconsultants.
11. Negotiate with all utility companies for any agreements and/or relocations required.
12. Provide an agent as necessary to secure proposed Right-of-Way.
13. Provide construction observation and review contractor pay applications and progress.
14. Provide Firm with Contractor submittals, Requests for Information, shop drawings, and correspondence.
15. Review Firm progress, submittals, and plan changes.

ATTACHMENT B
SERVICES TO BE PROVIDED BY THE FIRM
FOR THE WYOMING SPRINGS DRIVE EXTENSION

WORK AUTHORIZATION NO. 10

PROJECT: Wyoming Springs Drive Extension – Environmental Services

The County proposes to extend Wyoming Springs Drive north from its current terminus at Golden Oak Circle to connect with Farm-to-Market Road 1431 (project). The proposed project will include construction of a four-lane, divided road with curbs, gutters, and shared-use paths on either side. The proposed project is approximately 0.9 mile long, covering approximately 26.8 acres (project area). The Firm received the project area shape on July 9, 2025, as shown in Figure 1.

The project area is within the Edwards Aquifer Recharge Zone and within an area designated as Karst Zone 1. As such, the project area may contain caves that facilitate recharge and host endangered karst invertebrates. The project area could also include woodland that may be considered suitable habitat for the federally endangered golden-cheeked warbler (*Setophaga chrysoparia*). Additionally, the project area may contain monarch butterfly (*Danaus plexippus*) and tricolored bat (*Perimyotis subflavus*) habitat, both of which are proposed for federal protection under the Endangered Species Act (ESA). Additionally, the County has requested shovel tests for a cultural resources investigation for compliance with the Antiquities Code of Texas (ACT).

Environmental services will be provided upon the request of the County as needed for the project, including the following:

- Project Management
- Geologic Assessment
- Karst Feature Excavation and Karst Invertebrate Presence/Absence Surveys
- Threatened and Endangered Species Habitat Assessment
- Williamson County Regional Habitat Conservation Plan (RHCP) Application
- Phase I Environmental Site Assessment

To perform these environmental services, the Firm will access those parcels within the project area where right-of-entry has been obtained, which will be coordinated by the County. Parcels requiring a separate site visit may require a Supplemental Work Authorization.

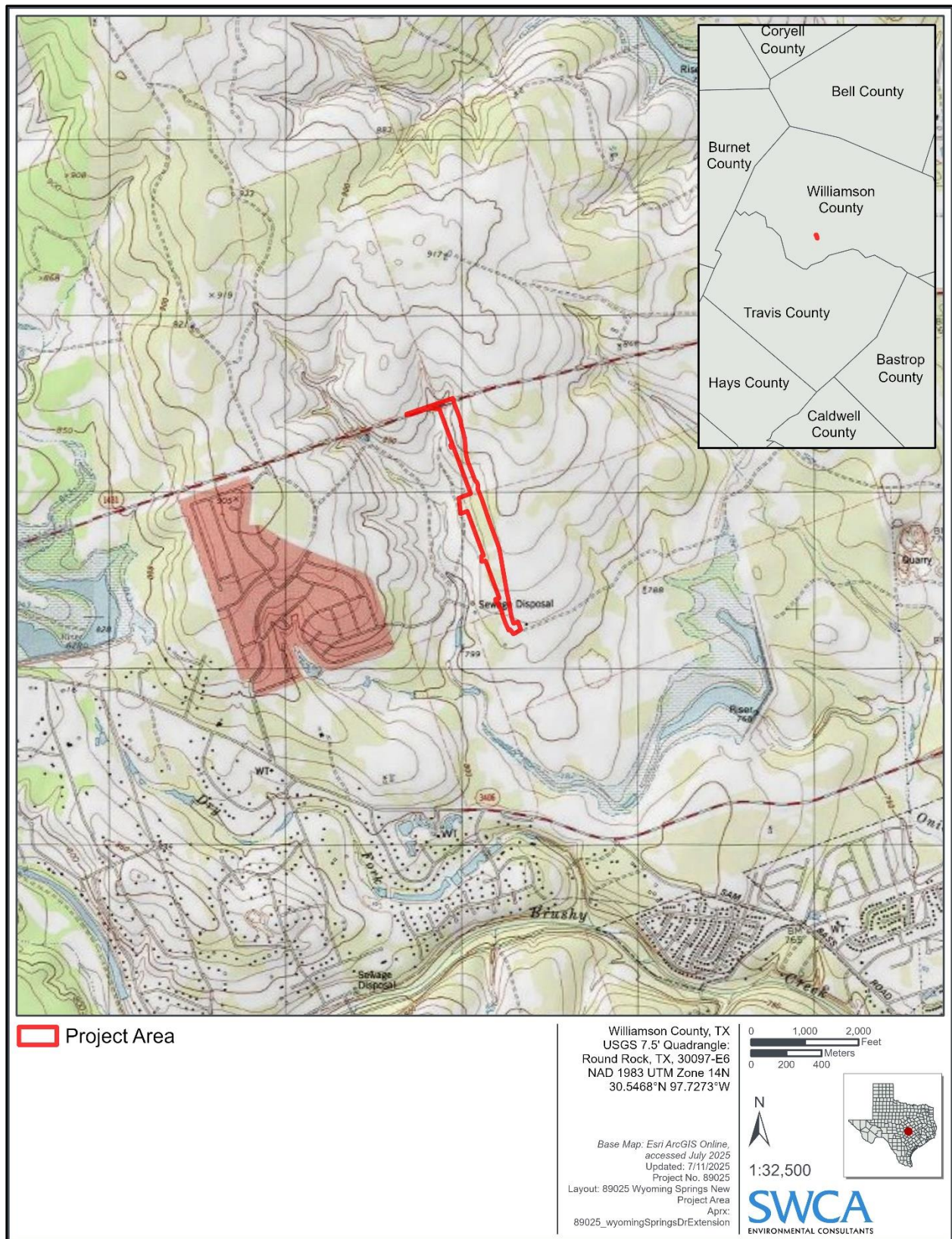


Figure 1. Location map.

Phase 01: Project Management

For Phase 01, the Firm is using modified scope language from the County's typical work authorization describing project management.

1. COMMUNICATION:

- a. Firm shall designate one environmental consultant (Texas) to be responsible for the project management, and all communications with the County and its representatives.

2. MONTHLY PROGRESS REPORTS, INVOICES, & BILLINGS (12 months assumed):

- a. Submit monthly progress status reports to the County. Progress reports will include tasks completed, tasks/objectives that are planned for the upcoming periods, and lists or descriptions of items or decisions needed from the County and its representatives. Subconsultant progress will be incorporated into the monthly progress report.
- b. Prepare correspondence, invoices, and progress reports on a monthly basis in accordance with current County requirements.

3. PROJECT COORDINATION & ADMINISTRATION:

- a. Prepare and maintain routine project record keeping, including records of meetings and minutes.
- b. Correspondence and coordination will be handled through and with the concurrence of the County.
- c. Manage project activities (including documenting emails, phone and conference calls, maintain project files for the length of the project, meeting agendas, meeting minutes, and schedule meetings), direct Firm's team/staff, coordinate and review subconsultant work, correspond with the County and its representatives, and assist the County and its representatives in preparing responses to project-related inquiries.

4. PROGRESS/COORDINATION MEETINGS (3 virtual meetings assumed):

- a. Attend a kickoff meeting and coordination/progress meeting with the County and its representatives and stakeholders, as necessary to communicate development of the project and design issues.
- b. Conduct internal coordination meetings as required to advance the development of the project.

5. PROJECT DOCUMENTS/FILES:

- a. All contract documents, including native files, shall be turned over to the County at each milestone and at the completion of the project or as requested. Documents shall be posted to the County's project management database.

6. DELIVERABLES:

- a. Monthly Invoices and Progress Reports including Deliverable Table
- b. Meeting Minutes, Sign-In Sheets, and Agendas
- c. Project Schedule and Updates
- d. Project Files

Phase 02: Geologic Assessment

The proposed project overlies the Edwards Aquifer Recharge Zone as mapped by the Texas Commission on Environmental Quality (TCEQ); therefore, a geologic assessment (GA) field investigation and the associated GA report will be prepared to be included with a Water Pollution Abatement Plan (WPAP) as required by Title 30 of the Texas Administrative Code, Chapter 213. The Firm will conduct the GA field investigation within the project area to identify geologic and human-made features that serve as points or zones of surface recharge to the Edwards Aquifer. The GA will be conducted by or under the direct supervision of a Professional Geoscientist (P.G.) and in accordance with regulations set forth in the TCEQ Publication 0585, *Instructions to Geologist for Geologic Assessment on the Edwards Aquifer Recharge/Transition Zones* (10-01-04). The GA field investigation will be conducted by walking parallel transects spaced approximately 30 to 50 feet apart within the project area. Geologic features identified during the survey will be evaluated, photographed, flagged, and recorded using a data collection tablet. Following the field investigation, the Firm will prepare a GA report for inclusion in the WPAP.

Deliverable

- The Firm will prepare a draft and final GA report outlining the results of the field investigation. Within 4 weeks of the field investigation, the Firm will provide the County with a draft report in electronic format (PDF) for review and comment. The Firm will respond to one round of comments and will provide the County with a final version of the report in electronic format within 2 weeks of receiving comments.

Phase 03: Karst Feature Excavation and Presence/Absence Surveys

The Firm anticipates that the GA could encounter up to three karst features that would require excavation to determine recharge sensitivity, according to TCEQ criteria. Additionally, the Firm could assess the potential for the excavated cave to host endangered karst invertebrates after the caves have been excavated. Prior to excavation, the Firm would create a Request for Excavation Using Heavy Equipment (Request) for submittal to the TCEQ. The Request is a fairly short document but is required by the TCEQ prior to excavation.

Each karst feature excavation would continue until conditions indicated the feature was unlikely to extend further into the subsurface, which is typically denoted by presence of limestone bedrock or hard packed clay. Excavation would also cease if the karst feature(s) extended into the subsurface and provided humanly accessible passageway; at which point, the excavation would cease, and the Firm would start mapping the cave interior. The results of the excavation and subsurface mapping would be included in an update to the GA report.

After cave excavation, the Firm would enter up to three caves to perform presence/absence surveys for federally listed endangered karst invertebrates. Two Firm biologists, one of which would maintain a U.S. Fish and Wildlife Service (USFWS) Section 10 (a)(1)(A) permit to perform scientific studies on endangered karst invertebrates, will search the cave(s) for the Bone Cave harvestman (*Texella reyesi*), the Inner Space Caverns mold beetle (*Batrisodes texanus*), and the Tooth Cave spider (*Tayshaneta myopica*). The presence/absence surveys would follow the current USFWS protocol for such surveys. Current USFWS karst invertebrate survey protocols require 14 separate feature visits to determine the presence or probable absence of these species. The Firm will also document inhabitation of any cave by the tricolored bat, which could receive protection under the ESA in 2024.

Deliverables

- The Firm would submit the Request to TCEQ and coordinate directly with that agency to gain approval for karst feature excavation with heavy machinery. The Firm anticipates completing the Request within 3 weeks of completing the field investigation for the GA, if needed.
- The Firm will amend the GA report detailing the results of the excavation. Within 4 weeks of the excavation, the Firm will provide the County with an updated draft GA in electronic format (PDF) for review and comment. The Firm will respond to one round of comments and will provide the County with a final version of the report in electronic format within 2 weeks of receiving comments.
- The Firm will prepare a draft karst survey report that includes the presence/absence survey methodology and results. The Firm will submit the draft report to the County within 6 weeks of completion of the presence/absence surveys. The Firm will address one round of comments from the County review team and will submit the final, electronic report to County within 2 weeks of receipt of comments.

Phase 04: Threatened and Endangered Species Habitat Assessment and Impacts Analysis

The Firm will perform a field investigation of land features (including karst features) and vegetation communities within the project area to evaluate the potential for federally listed threatened and endangered species habitat to occur within the project area. The investigation will also address habitat for species that the USFWS has proposed to list, or has designated as candidates for listing, as threatened or endangered.

Based on an initial review of aerial imagery, the Firm anticipates that the project area may include or occur within 250 feet of closed-canopy woodland that could provide suitable habitat for the federally endangered golden-cheeked warbler. Trees and caves (if they occur) within the project area could host the tricolored bat, which is proposed for protection under the ESA as endangered. Finally, the monarch butterfly is a candidate species for protection under the ESA and could lay eggs on milkweed (*Asclepias* sp.) or use nectar plants for foraging in treeless portions of the project area.

Desktop analysis indicates that the project area is atop Karst Zone 1; therefore, the Firm will focus on identifying potential habitat for karst invertebrates during Phase 02 and 03.

Additionally, the Firm anticipates the field investigation results will support preparation of an RHCP application (Phase 04).

Field investigation methods in Phase 03 for identifying potentially suitable habitat for federally protected species or species that could become protected in the near future will consist primarily of a visual reconnaissance of existing conditions within the project area. The Firm anticipates two biologists familiar with golden-cheeked warbler, tricolored bat, and monarch butterfly habitat identification will perform the field investigation for one day by walking throughout the project area and assessing habitat components. Potential habitat identified during the survey will be evaluated, photographed, flagged, and recorded using a data collection tablet.

Following the completion of the field investigation, the Firm will coordinate with the County to discuss results and determine desired next steps.

Deliverables

- The Firm will prepare a draft and final threatened and endangered species habitat assessment and impacts analysis report, which will include a map depicting the distribution within the project area of any potentially suitable habitat for federally listed species or species that may become listed in the near future. Within 4 weeks of the field investigation, the Firm will provide the County with a draft report in electronic format (PDF) for review and comment. The Firm will respond to one round of comments and will provide the County with a final version of the report in electronic format within 2 weeks of receiving comments.

Phase 05: Williamson County Regional Habitat Conservation Plan Application

The Firm will draft an RHCP participation application for incidental take coverage for potential impacts to federally listed karst invertebrates that may occur within Karst Zone 1. Additionally, the Firm would draft and submit an RHCP participation application for potential impacts to golden-cheeked warbler habitat, if needed. Results from Phases 01, 02, and 03 will dictate the type of incidental take coverage. For example, enrollment within the RHCP would differ depending on whether or not any caves with endangered karst invertebrates are located. Coverage for potential impacts to golden-cheeked warbler habitat will be included in the enrollment application, if necessary, dependent on the results from Phase 04.

Deliverables

- The Firm will prepare draft and final Williamson County RHCP applications. The Firm will provide the County with an electronic copy of the draft participation application within 4 weeks of the finalization of reports under Phases 01, 02, and 03; along with receipt of final (100%) project plans. Once comments are received, the Firm will incorporate comments and provide the final participation application electronically to the County for

their submittal to the Williamson County Conservation Foundation, which is the organization that oversees RHCP applications.

Phase 06: Phase I Environmental Site Assessment

The Firm will prepare a Phase I Environmental Site Assessment (PIESA) report in accordance with American Society of Testing and Material (ASTM) Standards on Environmental Site Assessments for Commercial Real Estate, E1527-13 Standard Practice for Environmental Site Assessments. The PIESA will also be performed in accordance with the U.S. Environmental Protection Agency's All Appropriate Inquiry (AAI) standards amended in 2021. The preparation of the PIESA will consist of the following tasks: records review, interviews, site reconnaissance, and user-provided information.

Records Review

The Firm will review recent and historical aerial photography and topographic maps to identify operations or activities that may have caused the release of hazardous substances into the environment. If made available by the County, the Firm will also review copies of environmental reports previously prepared for the site, environmental compliance audits, environmental permits, environmental liens and activity and use limitations (AULs), and other available environmental documents relating to the project area. As part of the review process, the Firm will summarize regional hydrogeological, geographic, and physiographic characteristics.

Additionally, the Firm will review available state and federal regulatory databases within standard search radii as specified in ASTM standards around the entire project area to determine whether the project area or nearby facilities have been subject to environmental actions or review. The regulatory database review will, at a minimum, include the databases required to satisfy the ASTM standard. The need for additional in-person regulatory file review is not anticipated, but would be performed on a time-and-materials basis, only when necessary, and provided that such files are publicly and readily available. The Firm is not responsible for obtaining a 50-year chain-of-title under the scope of work. The Firm will, however, review chain-of-title reports if supplied by Travis and Williamson Counties. Per ASTM standards, regulatory database reviews have a 6-month shelf life.

Interviews

If property owner contact information is made available by the County, the Firm will contact the landowner(s) via a mailed or emailed landowner questionnaire. In the interest of expediency, responses received too late for inclusion in the report will not be discussed in the report. If late responses offer information pertinent to the findings discussed in the report, the Firm will provide an addendum letter. The Firm assumes that the County will provide contact information for property owners and/or representatives of all affected parcels within the project area.

Site Reconnaissance

The Firm's personnel will perform a site reconnaissance of the project area, or subject property, to document current project conditions. Adjacent properties will be observed from the project area and from public right-of-way to visually identify and photograph areas with potential recognized

environmental conditions as defined in the ASTM standard. The Firm will include a general discussion in the report of how field observations relate to potential contamination, if appropriate.

The scope of work does not include activities such as collecting or analyzing soil, air, water, or other environmental samples and will not address issues such as radon, lead, or radioactivity. The Firm's personnel will require access to the entire project area on the date of the site reconnaissance. Access to private lands, locked gates, or restricted areas will be arranged by the County. It is assumed that the County will assist with landowner access as needed, which could include providing landowner notifications or land access permission letters for the Firm's staff to carry.

User-Provided Information

The user of the PIESA report is defined as the party seeking to use ASTM Standard E 1527-13 to complete a PIESA of the property, which for this project is the County. User-provided information is an essential component of the PIESA and includes items such as copies of any previous PIESAs or other relevant environmental documents, a completed PIESA user questionnaire, the reason why the PIESA is being performed, and contact information for current or past landowners or users. The ASTM standard states the County, as the user, is responsible for completing a search of recorded land-title records and judicial records of environmental liens and AULs. If the user opts not to search for liens and AULs, the Firm will note this as a limitation of the report.

Deliverables

- The Firm will summarize and document the PIESA findings in one report. Sections within the report will include 1) an introduction and description of the scope of work; 2) a description of the project area; 3) a summary of the project area history, including interviews and user-provided information; 4) a regulatory database review; 5) a description of the site reconnaissance; and 6) report findings and conclusions. Report limitations and literature cited will also be included.
- Figures, at a minimum, will include 1) a regional site location map and 2) aerial photography with mapped points of interest. Where applicable, report appendices could include 1) environmental database records and supplemental data; 2) documentation of interviews and other correspondence; 3) select project area photographs; 4) applicable project area history and prior-use documentation; and 5) copies of relevant environmental reports that have been previously prepared for the project area.
- The PIESA report will be prepared by a qualified environmental professional as defined in ASTM E 1527-13 and the AAI Rule. Within 4 weeks of the field survey, the Firm will provide the County with an electronic draft of the report for one round of review and comment. The Firm will incorporate comments into the final report, which will be submitted to the County electronically.

**ATTACHMENT C
WORK SCHEDULE
FOR THE WYOMING SPRINGS DRIVE EXTENSION**

WORK AUTHORIZATION NO. 10

PROJECT: Wyoming Springs Drive Extension – Environmental Services

The Firm is prepared to begin work immediately upon receiving a Notice to Proceed (NTP) for the work schedule provided for assigned tasks as given. The Firm will perform the field survey within 3 weeks of NTP and will submit the first draft of the report to the County within 6 weeks of field survey completion. All work is expected to be completed and finalized by July 31, 2026.

**ATTACHMENT D
FEE SCHEDULE
FOR THE WYOMING SPRINGS DRIVE EXTENSION**

**WORK AUTHORIZATION NO. 10
PROJECT: Wyoming Springs Drive Extension – Environmental Services**

Table 1. Anticipated Fee Details

Project Role	Per Unit Rate	Number of Units	Value
Labor			
Specialist I	\$77.00	0	\$0.00
Specialist II	\$91.00	0	\$0.00
Specialist III	\$104.00	6	\$624.00
Specialist IV	\$114.00	80	\$9,120.00
Specialist V	\$123.00	29	\$3,567.00
Specialist VI	\$137.00	0	\$0.00
Specialist VII	\$147.00	276	\$40,572.00
Specialist VIII	\$158.00	0	\$0.00
Specialist IX	\$169.00	180	\$30,420.00
Specialist X	\$189.00	0	\$0.00
Specialist XI	\$207.00	0	\$0.00
Specialist XII	\$226.00	0	\$0.00
Subject Matter Expert I	\$230.00	76	\$17,480.00
Subject Matter Expert II	\$242.00	0	\$0.00
Subject Matter Expert III	\$268.00	0	\$0.00
Subject Matter Expert IV	\$293.00	0	\$0.00
Labor Subtotal			\$101,783.00
Direct Costs			
Mileage	\$0.70	4,120	\$2,884.00
GPS Tablet+Geode	\$40.00	2	\$80.00
Direct Costs Subtotal			\$2,964.00
Heavy Machinery Subcontractor - At Cost	\$2,800.00	2	\$5,600.00
GRAND TOTAL			\$110,347.00

**ATTACHMENT D
FEE SCHEDULE
FOR THE WYOMING SPRINGS DRIVE EXTENSION**

Assumptions

- The estimated cost is based upon complete and open access to the project area. All land acquisition or right-of-entry to the project area will be obtained by the County prior to the commencement of field investigations described within this Work Authorization. Factors beyond the Firm's control, such as access restrictions, inclement weather, or unsafe project conditions that result in delays to the project schedule or require additional mobilizations, may require a Supplemental Work Authorization.

Phase 01 – Project Management

- None

Phase 02 – Geologic Assessment

- Two qualified people will perform the field investigation during a single day, including one professional geoscientist licensed as such with the TCEQ.

Phase 03 – Karst Feature Excavation and Presence/Absence Surveys

- Presence of karst features that could require excavation are located during the geologic assessment (Phase 01).
- Up to three karst features may require excavation.
 - The Firm would hire a subcontractor for heavy machinery (e.g., backhoe, hoe-ram) with operator to assist with excavation for 2 days.
 - Two biologists would be available to direct cave excavation over the course of 2 days.
 - The heavy machinery subcontractor would cost \$2,800 per day.
- The presence/absence surveys will continue for all 14 surveys in all three caves.
 - The presence/absence surveys will occur on Mondays, Wednesdays, and Fridays until the required number of surveys are completed.
 - Inclement weather may delay surveys due to safety concerns.

Phase 04 – Threatened and Endangered Species Habitat Assessment

- Karst-related field investigations will be performed during Phase 02 and 03. However, the results of those investigations will inform the karst invertebrate discussion in the Phase 04 report.
- The field investigation will be performed by two qualified biologists during a single day and will include one biologist familiar with golden-cheeked warbler habitat.
- The estimated cost does not include presence/absence surveys for any species.

Phase 05 – Williamson County Regional Habitat Conservation Plan Application

- None.

Phase 06 – Phase I Environmental Site Assessment

**ATTACHMENT D
FEE SCHEDULE
FOR THE WYOMING SPRINGS DRIVE EXTENSION**

- The field survey will be conducted concurrently with the geological assessment and by the same personnel (Phase 02).
- The County will release any known environmental data or reports associated with the project area to the Firm for the PIESA.
- The PIESA will be prepared in general accordance with ASTM standards and does not include any sampling, such as soil, air, water, vapor, lead, or asbestos.
- The County will provide landowner contact information (address and/or email) for sending landowner questionnaires.
- The County will provide a completed PIESA user questionnaire.
- The County is responsible for completing a search of recorded land-title records and judicial records of environmental liens and AULs. If the County opts not to search for liens and AULs, the Firm will note this as a limitation of the report.
- The date of the intended use of the PIESA is within 180 days of the completion of the report.