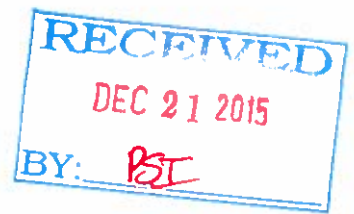


**SUPPLEMENTAL WORK AUTHORIZATION NO. 3  
TO  
WORK AUTHORIZATION NO. 1**



**WILLIAMSON COUNTY ROAD BOND PROJECT:  
RM 620 (Cornerwood to Deep Wood) Phase 2**

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This Supplemental Work Authorization No. 3 to Work Authorization No. 1 is made pursuant to the terms and conditions of the Williamson County Contract for Engineering Services, being dated June 24, 2014 ("Contract") and entered into by and between Williamson County, Texas, a political subdivision of the State of Texas, (the "County") and Halff Associates, Inc. (the "Engineer").

WHEREAS, the County and the Engineer executed Work Authorization No. 1 dated effective June 24, 014 (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 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).
- II. The maximum amount payable for services under the Work Authorization is hereby increased from \$ 183,228.00 to \$ 230,078.00. 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: Michael A. Moya  
Signature

Michael A. Moya  
Printed Name

Vice President  
Title

12/15/2015  
Date

**COUNTY:**

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

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

\_\_\_\_\_  
Title

\_\_\_\_\_  
Date

OK  
M 12/23/2015

**LIST OF ATTACHMENTS**

Attachment B - Services to be Provided by Engineer

Attachment D - Fee Schedule

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: Michael A. Moya  
Signature

Michael A. Moya  
Printed Name

Vice President  
Title

12/15/2015  
Date

**COUNTY:**

By: [Signature]  
Signature

DAVID A. GARCIA  
Printed Name

County Judge  
Title

1-07-2016  
Date

OK  
M 12/20/2015

**LIST OF ATTACHMENTS**

Attachment B - Services to be Provided by Engineer

Attachment D - Fee Schedule

ATTACHMENT B

SERVICES PROVIDED BY ENGINEER

FOR

PROFESSIONAL SERVICES FOR  
RM 620 SAFETY IMPROVEMENTS  
IN WILLIAMSON COUNTY

FROM CORNERWOOD DRIVE TO DEEP WOOD DRIVE

Scope of Services for this Supplemental Agreement provided by Halff Associates, herein referred to as "Engineer" for Williamson County, herein referred to as "County", and involves engineering and other professional services for RM 620 from Cornerwood Drive (previous project limit was Wyoming Springs) to Deep Wood Drive in Williamson County, Texas.

This engineering scope for this Supplemental Agreement includes the following major tasks:

- Additional effort to consolidate and update environmental documentation for Phases 1 & 2
- Provide support for continued Public Outreach

TASK 6 – ADDITIONAL ENVIRONMENTAL SERVICES FOR ADDED CAPACITY

The Engineer shall undertake the necessary environmental studies and prepare documentation for review and approval by the Texas Department of Transportation (TxDOT) for making a determination of a Categorical Exclusion (CE) for the proposed project. The CE documentation shall be prepared in accordance with 43 Texas Administrative Code (TAC) Chapter 2. The environmental process and CE documentation shall follow guidance published by TxDOT as of November 2015, which includes new guidelines and documentation requirements made available on TxDOT's online Environmental Compliance Toolkits since previous studies were performed for the proposed project. Additional effort that may be required due to changes to these standards after this date are not included in this Scope of Services. A subsequent supplemental agreement will be required to address any new standards and/or requirements. The scope of services in the original contract provided for RM 620 improvements from Wyoming Springs to Deep Wood to be processed as one State Categorical Exclusion (SCE) document. The project originally consisted of reconstruction of this roadway segment to three travel lanes in each direction with raised medians and dedicated left turn lanes. The proposed improvements would occur within existing ROW, and approximately 0.4 acre of temporary construction easements were proposed. While work was in progress, the proposed project was expanded to include restriping for one additional travel lane in each direction from Cornerwood Drive to Wyoming Springs Drive as well as sidewalk construction along the north side of this segment of the roadway. Supplemental #2 included scope to prepare scope forms and obtain approval from TxDOT to classify the combined project as an "open-ended (d) CE". Additional effort is required beyond the original scope of services and the Supplemental #2 scope of services to process the combined project from Cornerwood Drive to Deep Wood Drive as one CE. The additional tasks included in this Scope of Services, including a new description of deliverables, are listed below:

## WORK AUTHORIZATION #1 SUPPLEMENTAL #3

### 6.1 PROJECT SCOPING

No additional effort is anticipated. Based on the Scope Development Tool form, the Project Scope for Environmental Review Documents form, and the Request for Classification previously submitted, the TxDOT Environmental Affairs Division concurred that this project qualifies for classification as an "open-ended (d) CE" under 23 CFR 771.117(d). The Scope Development Tool and Project Scope form establish a collaborative agreement with TxDOT regarding the surveys, studies, and tasks to be completed as well as the technical documentation to be submitted to TxDOT. If at any time TxDOT determines that the project does not meet the criteria listed in 23 CFR 771.117(a) and 40 CFR 1508.4 or there is substantial controversy on environmental grounds, the project would need to be reclassified. In the event such a determination is made, the Engineer will notify the County and a supplemental scope of services will be prepared to allow completion of other suitable documentation.

### 6.2 TECHNICAL REPORTS

Technical reports detailing resource-specific studies shall be produced as previously determined by TxDOT based on the scoping documents submitted by the Engineer. This task will involve consolidating and updating information from studies associated with previous roadway widening from Cornerwood Drive to Wyoming Springs Drive (CSJ: 0683-01-079) and in-progress draft technical reports for the reconstruction of RM 620 from Wyoming Springs Drive to Deep Wood Drive (CSJ: 0683-01-090). Technical reports shall include sufficient information to determine the significance of impacts. All draft deliverables will be submitted to the County's General Engineering Consultant (HNTB Corporation), herein referred to as "GEC", for review and coordination with TxDOT. Draft deliverables will be in Adobe Acrobat format. Comments received will be addressed and documents will be re-submitted for review and approval. Final technical reports will be provided to the County and TxDOT Austin District in Adobe Acrobat format, and up to six (6) hard copies will be provided upon request. The following environmental technical reports are anticipated to be required by TxDOT for environmental clearance of the proposed improvements, and are included in this Scope of Services:

- 1) Project Coordination Requests (PCRs) for Archeological Resources and Historic Properties;
- 2) Biological Evaluation Form;
- 3) Water Resources technical report;
- 4) Hazardous Materials Initial Site Assessment; and
- 5) Community Impacts Analysis technical report;
- 6) Air Quality technical report, including a qualitative analysis of Mobile Source Air Toxics (MSAT);
- 7) Traffic Noise Analysis technical report; and
- 8) Indirect and Cumulative Risk Assessment forms.

#### 6.2.1 Cultural Resources (Archeology and Historic Structures)

Cultural resources investigations must be conducted in compliance with the requirements of Section 106 of the National Historic Preservation Act (NHPA) [16 USC § 470(f)] and implementing regulations (36 CFR Part 800). Archeological investigations must be performed in compliance with the Antiquities Code of Texas (13 TAC 26 and Title 9, Chapter 191, Subchapters A-F of the Texas Natural Resources Code, as amended) ~~due to Williamson County being a political subdivision of the State of Texas.~~

An updated records review will be conducted to identify recorded archeological or historic sites within the area of potential effects (APE) for the proposed project. This task includes preparing updated

## **WORK AUTHORIZATION #1 SUPPLEMENTAL #3**

and consolidated Archeological and Historic Structures PCRs. See attached subconsultant scope for this task. The Engineer will coordinate with the subconsultant, review deliverables, and submit reports to the GEC and TxDOT for review and agency coordination as appropriate. This task does not include windshield or reconnaissance level surveys for historic structures, intensive surveys for archeological or non-archeological historic resources, evaluation of effects on NRHP-eligible or -listed sites, or Section 4(f) evaluations. These services can be provided under a separate Scope of Services, if necessary.

### **6.2.2 Biological Resources**

This task includes an assessment of the project's compliance with the following federal and state regulatory requirements.

- Endangered Species Act of 1973
- Migratory Bird Treaty Act and Golden Eagle Protection Act
- Fish and Wildlife Coordination Act
- Farmland Protection Policy Act
- Executive Order on Invasive Species
- Executive Memorandum on Environmentally and Economically Beneficial Landscaping
- Texas Parks and Wildlife Department (TPWD) Coordination per Memorandum of Understanding (MOU) (reissued 2013)

An updated assessment will be conducted for vegetation and protected habitat impacts in accordance with the 2013 MOU between TxDOT and the TPWD. Associated mapping and a Biological Evaluation Form will be completed.

- A. Karst and Jollyville Plateau Salamander services: See attached subconsultant scope for this task. The Engineer will coordinate with the subconsultant, review deliverables, and submit reports to the GEC and TxDOT for review and agency coordination as appropriate. Deliverables include a consolidated and updated karst survey and TCEQ Geological Assessment, species impact assessment, and Williamson County Regional Habitat Conservation Plan participation.

### **6.2.3 Water Resources**

This task includes preparing a Water Resources Technical Report to document compliance with the following:

- Section 404 of the Clean Water Act: Waters of the United States;
- Section 401 of the Clean Water Act: Water Quality Certification;
- Executive Order 11990, Wetlands;
- Rivers and Harbors Act of 1899, Section 10;
- Section 303(d) of the Clean Water Act;
- Section 402 of the Clean Water Act: Texas Pollutant Discharge and Elimination System (TPDES), Construction General Permit;
- Section 402 of the Clean Water Act: TPDES, Municipal Separate Storm Sewer System (MS4);
- Floodplains; and
- Edwards Aquifer Recharge and Contributing Zones.

An updated jurisdictional determination of waters of the United States, including wetlands, will be made within the anticipated ROW and easements for the project. This determination will include

## **WORK AUTHORIZATION #1 SUPPLEMENTAL #3**

delineation of the boundaries and ordinary high water mark of jurisdictional waters within the ROW. The analysis and documentation will include a description of waters of the United States, including wetlands, in the current project area, a listing of the temporary and permanent impacts from the project (if any), and a discussion of applicable Section 404 permit requirements. Preparation of a Preconstruction Notification (PCN), mitigation plan or a USACE Section 404 Individual Permit Application is not included in this Scope of Services.

### **6.2.4 Hazardous Materials**

An updated Hazardous Materials ISA technical report will be prepared. The ISA will assist in determining the presence or likely presence of any hazardous substances or petroleum products in the project study area and identify any conditions that may indicate an existing release, a past release, or a material threat of a release of any hazardous substances or petroleum products into the ground, groundwater, or surface water of the project area. The ISA will include records review, site reconnaissance, evaluation of recorded sites and conditions observed during the site visit, and report preparation. The Scope of Services does not include a Phase I Environmental Site Assessment performed in accordance with applicable American Society for Testing and Materials (ASTM) standards or any sampling and laboratory testing.

### **6.2.5 Community Impacts Analysis**

A technical report will be prepared documenting the population and income characteristics of the immediate area surrounding the proposed project, and identifying potential impacts on Environmental Justice (EJ) and Limited English Proficiency (LEP) populations as well as potential impacts on community cohesion.

### **6.2.6 Air Quality**

A technical report will be prepared documenting the project area attainment status relative to the National Ambient Air Quality Standards (NAAQS), as well as project exemption from an air conformity determination, project exemption from a traffic air quality analysis for carbon monoxide, and project consistency with the Metropolitan Transportation Plan (MTP) and the Transportation Improvement Program (TIP)/Statewide Transportation Improvement Program (STIP). The air quality technical report will include a qualitative Mobile Source Air Toxics (MSAT) analysis.

### **6.2.7 Noise**

The noise analysis shall be performed using the FHWA Traffic Noise Model (TNM) and a technical report documenting the traffic noise analysis shall be prepared including the following:

- Determine Land Use – Conduct desktop research and a site visit to update identified land uses that might be impacted by highway traffic noise and may benefit from feasible and reasonable noise abatement.
- Model Existing/Future Noise Levels – Perform computer modeling of existing noise levels and predicted (future) noise levels. Computer modeling shall be accomplished with the latest FHWA approved TNM software program.
- Conduct Barrier Analyses – Identify impacted receivers in accordance with the absolute and relative impact criteria. Consider and evaluate all required noise abatement measures for impacted receivers in accordance with the feasible and reasonable criteria. Propose noise abatement measures that are both feasible and reasonable.
- Determine Future Noise Impact Contours – Determine predicted (future) noise impact contours adjacent to the proposed roadway on undeveloped property where residential or commercial development is likely to occur in the near future.

No noise workshops are included in this Scope of Services. Should they be required, those services

## **WORK AUTHORIZATION #1 SUPPLEMENTAL #3**

would be provided as part of a supplemental agreement.

### **6.2.8 Indirect and Cumulative Impacts**

The Engineer shall prepare the Indirect Impact and Cumulative Impact Risk Assessment forms. It is anticipated that indirect and cumulative impacts analyses and an associated technical report will not be required for the project. If required, an indirect and cumulative impacts analysis technical report would be provided as part of a supplemental agreement.

### **6.3 EPIC**

Upon approval of all technical reports and the completion of agency coordination, the Engineer will update the environmental permits, information, and commitments (EPIC) design sheet. The EPIC sheet will be submitted to the GEC for coordination with the County and the TxDOT Austin District, and revised in accordance with comments received.

### **6.4 PUBLIC OUTREACH**

It is assumed the County's independent public involvement firm will provide a summary report for all applicable public outreach events conducted to date as required by TxDOT. The Engineer will provide assistance preparing responses to public comments received at the October 2015 open house public meeting. It is not anticipated that additional public meetings or a public hearing will be required for the project. The Engineer will assist with preparation of a Notice Affording an Opportunity for Public Hearing. It is assumed the County's public involvement firm will be responsible for updating the mailing list, mailout of notices, and publication of notices in newspapers in accordance with TxDOT guidelines and 43 TAC 2.106. If necessary, the Engineer can provide public involvement services under a separate scope of services.

ANY ADDITIONAL SERVICES REQUIRED BEYOND THOSE SPECIFICALLY IDENTIFIED IN THIS PROPOSAL ARE BEYOND THE SCOPE OF SERVICES TO BE PROVIDED UNDER THIS WORK AUTHORIZATION. ANY REQUIRED ADDITIONAL SERVICES WILL BE SEPARATELY IDENTIFIED AND NEGOTIATED AND SUCH ADDITIONAL SCOPE AND COMMENSURATE FEE WILL BE AUTHORIZED UNDER A SUPPLEMENTAL AGREEMENT.



WORK AUTHORIZATION 1  
SUPPLEMENTAL AGREEMENT 3

ATTACHMENT "D" - RM 620 SAFETY IMPROVEMENTS - CORNERWOOD TO DEEP WOOD

Date: 11/23/2015

ATTACHMENT D - FEE SCHEDULE														
TASK/DESCRIPTION	PRINCIPAL	PROJECT MANAGER	SR PE	PE	LIT.	ENV SCIENTIST PM	ENV SCIENTIST SR	ENV SCIENTIST JR	CLAD / OR / VETECH	SURVEY MANAGER	SURVEY TECH	SURVEY DUE CRYM	CLINICAL / ADMIN	TOTAL MAN. HOURS
TASK 5 - ADDITIONAL ENVIRONMENTAL SERVICES FOR ADDED CAPACITY														
6.1 PROJECT SCOPING (see completed under TAIL S&D)														
6.2 CONSOLIDATE & UPDATE TECHNICAL REPORTS														
6.2.1 CONSOLIDATE & UPDATE BIOLOGICAL PCA & SURVEY REPORT														
6.2.2 CONSOLIDATE & UPDATE RPT FOR														
6.2.3 CONSOLIDATE & UPDATE BIOLOGICAL TECHNICAL REPORT														
6.2.4 CONSOLIDATE & UPDATE EIA AND SALAMANDER IMPACT ASSESSMENT REPORTS														
6.2.5 CONSOLIDATE & UPDATE WATER RESOURCES TECHNICAL REPORT														
6.2.6 CONSOLIDATE & UPDATE HAZARDOUS TECHNICAL REPORT														
6.2.7 CONSOLIDATE & UPDATE COMMUNITY TECHNICAL REPORT														
6.2.8 AIR QUALITATIVE IMPACT TECHNICAL REPORT														
6.2.9 CONSOLIDATE & UPDATE NOISE TECHNICAL REPORT														
6.2.10 ICE RISK ASSESSMENT FORMS														
6.3 UPDATE EPC SHEET														
6.4 PUBLIC OUTREACH DOCUMENTATION & NOTICE OF OPPORTUNITY FOR PUBLIC HEARINGS														
SUBTOTAL HOURS/COSTS														
PEE SUMMARY														
TASK 6 - ADDITIONAL ENVIRONMENTAL SERVICES FOR ADDED CAPACITY														
TOTAL HOURS														
CONTRACT RATES (H)														
BASE SALARIES & BONUS TOTAL														
TOTAL BY CATEGORY														
TOTAL FEE														
11" x 17" Prints	QTY	PRICE	TOTAL											
8.5" x 11" Prints	100	\$0.20	\$20											
Color roll plots (SF)	1000	\$0.10	\$100											
Hazard Database Report	48	\$2.50	\$1200											
	1	\$500.00	\$500											
		Subtotal	\$740											
Deliveries	6	\$15.00	\$90											
Mileage (M) *To be reimbursed at the current IRS rate	400	\$0.575	\$230											
		Subtotal	\$320											
SUBCONSULTANT FEES														
AnaTerra			\$1,200											
Cambrion Environmental			\$9,500											
			Subtotal											
			TOTAL											
			\$10,760											

# **Proposal to Conduct Cultural Resource Investigations Along RM 620 From Cornerwood Drive to Deepwood Drive, Williamson County, Texas**

AmaTerra Environmental, Inc. (AmaTerra) is pleased to submit this proposal in response to a request by Halff Associates, Inc. (Halff) for additional archeological and historical resource services in advance of road improvements along RM 620 between Wyoming Springs Drive and Deepwood Drive in Williamson County, Texas. The project area has been modified to include the segment of RM 620 from Wyoming Springs Drive to Cornerwood Drive, a portion of roadway that has been previously cleared for archeological resources by Ecological Communications Corporation (now AmaTerra) and for historical resources by Halff.

Because the survey work for the additional segment of the project has already been carried out, AmaTerra proposes to revise existing archeological and historical background and PCR documents and all associated maps to account for the additional project roadway. AmaTerra assumes that no additional ROW will be required for this portion of the project, thereby limiting the historical indirect effects APE to the existing ROW. AmaTerra further assumes that no field investigations of this additional segment will be required following coordination.

## **COMPENSATION**

AmaTerra shall be compensated on a time-and-materials basis for the additional work up to a maximum amount of \$1,200 inclusive of labor and other direct costs. AmaTerra's price is itemized in the Cost Breakdown.

Proposal to Conduct Cultural Resource Investigations Along RM 620  
from Cornerwood Drive to Deepwood Drive, Williamson County, Texas

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**COST BREAKDOWN**

LABOR	Cultural Resources Background	Admin	Total	Units	Unit Price	Cost
Principal		0.5	1	hrs	\$ 216.00	\$ 108.00
Senior Archeologist			0	hrs	\$ 135.00	\$ -
Archeologist III	2		2	hrs	\$ 73.00	\$ 146.00
Archeologist II			0	hrs	\$ 68.00	\$ -
Archeologist I			0	hrs	\$ 58.00	\$ -
Historical Architect	2		2	hrs	\$ 133.00	\$ 266.00
Historian II	4		4	hrs	\$ 82.00	\$ 328.00
GIS Specialist	3		3	hrs	\$ 80.00	\$ 240.00
Administrative Asst		1	1	hrs	\$ 88.00	\$ 88.00
<b>TOTAL LABOR</b>						<b>\$ 1,176.00</b>
EXPENSES	Cultural Resources Background	Admin	Total	Units	Unit Price	Cost
Copies, b/w	20	20	40	each	\$ 0.10	\$ 4.00
Copies, color	20		20	each	\$ 1.00	\$ 20.00
<b>TOTAL EXPENSES</b>						<b>\$ 24.40</b>
<b>TOTAL Cost Addition</b>						<b>\$ 1,200.00</b>



Cambrian Environmental  
4422 Pack Saddle Pass  
Suite 204  
Austin, TX 78745

Tel (512) 663-0156

[www.cambrianenvironmental.com](http://www.cambrianenvironmental.com)

12 November 2015

Crystal Hall  
Halff Associates  
4030 West Braker Lane, Suite 450  
Austin, Texas 77859-5356  
(512) 626-9589

**Re: R.M. 620 Cornerwood to Deepwood / Karst Services**

Dear Crystal:

Cambrian Environmental is pleased to provide you with the enclosed proposal to provide environmental services in support of improvements to R.M. 620 between 0.23 miles west of Cornerwood Drive and Deepwood Drive on the west side of the City of Round Rock, Williamson County, Texas.

Our proposed scope of work is described in greater detail in the attached scope of services and includes compiling an updated TCEQ Geologic Assessment report. We are prepared to begin upon receipt of a signed services agreement.

If you have any questions or concerns regarding this proposal, please do not hesitate to contact me at 512-663-0156 or via e-mail at [kwhite@cambrianenvironmental.com](mailto:kwhite@cambrianenvironmental.com).

Sincerely,

Kembler White, P.G.  
Cambrian Environmental



Cambrian Environmental  
4422 Pack Saddle Pass  
Suite 204  
Austin, TX 78745

Tel (512) 663-0156

[www.cambrianenvironmental.com](http://www.cambrianenvironmental.com)

**SCOPE OF SERVICES  
R.M. 620 0.23 MILES WEST OF CORNERWOOD TO DEEPWOOD / KARST  
SERVICES**

**Task 1: TCEQ Geologic Assessment Report**

We understand that the current project incorporates multiple project areas for which Cambrian geoscientists have previously conducted geologic assessment investigations. Portions of the survey area were previously studied by Cambrian personnel between 2007 and 2015 and we have retained the field data. Under this task Cambrian Registered Professional Geoscientists who are permitted by the U.S. Fish and Wildlife Service (USFWS) to conduct karst surveys will produce an updated geologic assessment report incorporating a minor amount of new field work with the results of two prior geologic assessments for the project area. Cambrian geoscientists will visit the project area (subject to right of entry conditions) to evaluate surface features that may be indicative of avenues for aquifer recharge and which may be indicative of sub-surface habitat for the Jollyville Plateau Salamander (*Eurycea tonkawae*). The field work will generally conform to the "Instructions to Geologists for Geologic Assessments on the Edwards Aquifer Recharge/Transition Zones" as written by the Texas Commission on Environmental Quality (TCEQ). The report will also meet the requirements for enrollment in the Williamson County Regional Habitat Conservation Plan for potential take of endangered karst invertebrates. Based on the results of our findings additional (out of current scope) excavation work and biological surveys may be required although they are not expected based on the results of our previous work in the project area.

Mapping (CAD/GIS) services will be provided by Halff personnel with Cambrian support.

Cambrian staff will be available as needed to attend meetings with project staff and regulatory agencies including the TCEQ Edwards Aquifer Protection Program and the Williamson County Conservation Foundation. This would include conducting a site walk-through should it be requested by TCEQ staff.

**Task 1 Cost: Time and Materials Not-to-Exceed \$8,500.00**



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### HOURLY RATES

1. Senior Project Manager .....\$155.00
2. Senior Karst Geoscientist.....\$155.00
3. Karst Geoscientist.....\$120.00
4. Clerical/Administrative .....\$55.00