ORDINANCE NO. 22-020

AN ORDINANCE AUTHORIZING AND DIRECTING THE CITY MANAGER TO ENTER INTO AN AGREEMENT FOR PROFESSIONAL DESIGN SERVICES WITH MOTT MACDONALD, LLC OF CLEVELAND, OHIO, FOR THE WEST MONROE STREET RESURFACING PROJECT; AND DECLARING THAT THIS ORDINANCE SHALL TAKE IMMEDIATE EFFECT IN ACCORDANCE WITH SECTION 14 OF THE CITY CHARTER.

WHEREAS, the City Commission approved and authorized the submission of an application to the Erie Regional Planning Commission, Metropolitan Planning Organization and an LPA Federal Project Agreement between the City and the Ohio Department of Transportation (ODOT) for the proposed West Monroe Street Resurfacing Project by Resolution No. 010-20R, passed on March 23, 2020; and

WHEREAS, the West Monroe Street Resurfacing Project consists of separating the combined sewer running down West Monroe Street, between Broadway and Camp Streets, and with any large utility replacement project large portions of the roadway will be removed, seeing that the current condition of the roadway is in less than fair condition containing several defects and portions that have been rooted out, the entire length of roadway along the project limits will be resurfaced, with only full depth replacement being seen at the area that has completely rutted out (lanes at W. Monroe Street / Tiffin Avenue and W. Monroe Street / Camp Street); and

WHEREAS, a Request for Qualifications (RFQ) was issued for the West Monroe Street Resurfacing Project in which eleven (11) submittals were received, evaluated and ranked by a selection committee and based upon the firm's expertise, professional knowledge and past experience and success with similar projects, it was determined Mott MacDonald, LLC, was the most qualified; and

WHEREAS, Mott MacDonald, LLC, will be providing professional design services for the West Monroe Street Resurfacing Project and is more fully described in the Scope of Services, which is attached to this Ordinance and marked Exhibit "A" and specifically incorporated herein; and

WHEREAS, the total cost of the professional design services is \$150,500.00 of which \$40,817.60 will be paid with Federal Highway Administration (FHWA) funds through the Ohio Department of Transportation (ODOT) and the Erie County Metropolitan Planning Organization (MPO) and the remaining balance of \$109,682.40 will be paid with Storm Water Funds in the amount of \$80,066.00 and Capital Street Funds in the amount of \$29,616.40; and

WHEREAS, this Ordinance should be passed as an emergency measure under suspension of the rules in accordance with Section 14 of the City Charter in order to immediately proceed with the design work in order to keep the project on track for ODOT design milestones; and

WHEREAS, in that it is deemed necessary in order to provide for the immediate preservation of the public peace, property, health, and safety of the City of Sandusky, Ohio, and its citizens, and to provide for the efficient daily operation of the Municipal Departments, including the Department of Public Works, of the City of Sandusky, Ohio, the City Commission of the City of Sandusky, Ohio finds that an emergency exists regarding the aforesaid, and that it is advisable that this **Ordinance** be declared an emergency measure which will take immediate effect in accordance with Section 14 of the City Charter upon its adoption; and NOW, THEREFORE, BE IT

PAGE 2 - ORDINANCE NO. 22-020

ORDAINED BY THE CITY COMMISSION OF THE CITY OF SANDUSKY, OHIO, THAT:

Section 1. The City Manager is authorized and directed to enter into an

Agreement with Mott MacDonald, LLC, of Cleveland, Ohio, for Professional Design

Services for the West Monroe Resurfacing Project (ERI-CR500-01.37, PID 113957),

substantially in the same form as attached to this Ordinance, marked Exhibit "1",

and specifically incorporated as if fully rewritten herein, together with any revisions

or additions as are approved by the Law Director as not being substantially adverse

to the City and consistent with carrying out the terms of this Ordinance, at an

amount **not to exceed** One Hundred Fifty Thousand Five Hundred and 00/100

Dollars (\$150,500.00).

Section 2. If any section, phrase, sentence, or portion of this Ordinance is for

any reason held invalid or unconstitutional by any Court of competent jurisdiction,

such portion shall be deemed a separate, distinct, and independent provision, and

such holding shall not affect the validity of the remaining portions thereof.

Section 3. This City Commission finds and determines that all formal

actions of this City Commission concerning and relating to the passage of this

Ordinance were taken in an open meeting of this City Commission and that all

deliberations of this City Commission and of any of its committees that resulted in

those formal actions were in meetings open to the public in compliance with the

law.

Section 4. That for the reasons set forth in the preamble hereto, this

Ordinance is hereby declared to be an emergency measure which shall take

immediate effect in accordance with Section 14 of the City Charter after its

adoption and due authentication by the President and the Clerk of the City

Commission of the City of Sandusky, Ohio.

RICHARD R. BRADY

PRESIDENT OF THE CITY COMMISSION

ATTEST:

CATHLEEN A. MYERS

Roch & Busy

CLERK OF THE CITY COMMISSION

Passed: February 14, 2022

CITY OF Sandusky

AGREEMENT NO. 37373

This Agreement No. 37373 entered into this _____ day of ______, 20____, by and between the City of Sandusky, hereinafter referred to as the City and Mott MacDonald, hereinafter referred to as the Consultant, with an office located at 18013 Cleveland Parkway Drive, Suite 200, Cleveland, OH 33135.

WITNESSETH:

That the City and the Consultant, for the mutual considerations herein contained and specified, have agreed and do hereby agree as follows:

CLAUSE I - WORK DESCRIPTION

The Consultant agrees to design the improvements required to rehabilitate CR 500 (West Monroe St) from Camp St to Broadway St, as may be authorized by the City for in Erie County, Ohio, identified as ERI-CR 500-1.37.

CLAUSE II - INVOICE & PROJECT SCHEDULE

The City and the Consultant agree to the attached Invoice & Project Schedule including the overall Agreement length, and Scheduled Submittal dates and Review Times set out in the Project Schedule.

The Consultant agrees to submit the completed Invoice & Project Schedule transmittal letter together with the updated Invoice & Project Schedule for all billing purposes for all Parts of this Agreement every thirty (30) days as follows:

(a) Signed original transmittal letter and invoice (IPS) and three (3) copies of same.

CLAUSE III - PRIME COMPENSATION

The City agrees to compensate the Consultant for the performance of the Work specified in this Agreement as follows:

Part 1: Preliminary Engineering Phase

Lump sum compensation of ninety-nine thousand, nine hundred and sixty-six dollars (\$99,966).

Part 2: Environmental Engineering Phase

Lump sum compensation of thirty thousand, seven hundred and sixty-two dollars (\$30,762).

Part 3: Final Engineering Phase

Lump sum compensation of nineteen thousand, seven hundred seventy-two dollars (\$19,772).

If Authorized: Preliminary Engineering Phase

Lump sum compensation of one thousand, four hundred and ninety-five dollars (\$1,495).

If Authorized: Environmental Engineering Phase

Lump sum compensation of twelve thousand, one hundred and sixty-two dollars (\$12,162).

If Authorized: Final Engineering Phase

Lump sum compensation of two thousand, one hundred and seven dollars (\$2,107).

Prime Compensations, only as agreed and by proper modification of this Agreement and authorized in writing by the City, may be added to or subtracted from under the authority of the Department of Transportation's "Specifications for Consulting Services, 2016 Edition".

CLAUSE IV - INCORPORATION BY REFERENCE

The following documents, or specified portions thereof, are hereby incorporated into and made a part of this Agreement as though expressly rewritten herein:

- (a) The Department of Transportation's "Specifications for Consulting Services, 2016 Edition".
- (b) The attached Scope of Services.
- (c) The Invoice & Project Schedule.
- (d) The most current Office of Budget and Management Travel Policy as published on the State of Ohio Website (https://budget.ohio.gov/TravelRule).

CLAUSE V - GENERAL PROVISIONS

Any person executing this Agreement in a representative capacity hereby warrants that he/she has been duly authorized by his/her principal to execute this Agreement on such principal's behalf.

Additionally, it is expressly understood by the parties that none of the rights, duties and obligations described in this Agreement shall be binding on either party until such time as the expenditure of funds is certified by the Director of Budget and Management, pursuant to Section 126.07 of the Ohio Revised Code.

IN WITNESS WHEREOF, the parties hereto have caused this Agreement to be executed as of the day and year first above written by affixing the signature of the duly authorized officer of Consultant and the signature of the Public Works Director.

	Mott MacDonald
	Ву:
	Title:
	City of Sandusky
	Public Works Director
[option DELETE 1 NOT USED]	***COUNTY BOARD OF COMMISSIONERS
	Commissioner
	Commissioner
	Commissioner
APPROVED AS TO FORM:	
Ву:	
Title:	

OHIO DEPARTMENT OF TRANSPORTATION INTER-OFFICE COMMUNICATION

To: Al	ana Haberman, Administrator, Office of Payroll & Project Accounting, ATTN: Doug Banks
From:	
Date:	
Re:	Construction Encumbrance Request for LPA Local Let Agreement No. ***** CRS PID No. State Job No. Federal Project No. Construction Inspection
New:	X
Vendo OAKS Add Co	r Name: r Address: *** Name of Local [OPTION Name of Consultant DIRECT PAY CERT ATTACH] *** Invoicing Address No. ************************************
Contro	olling Board No.: NOT REQUIRED ON LOCAL AGREEMENTS
Object	Code: 572011
Encun	nbrance Request Name: *** Funding Event Name: ***
Amour	nt to be Encumbered: \$***.00 (*% of \$*.00 - Federal funds)
Audit C	Code
Progra	m Manager Approval: Signature/Date
***.**	

C:

File

[date]

```
*** [NAME of Local Contractual Officer with Title i. e. County Engineer, The Honorable ** for Mayor]

*** [Local Entity i. e. Lucas County or City of Elyria]

*** [Local Address]

*** [Local Address]

Re: Proposed Consultant Agreement No. *****

**** [CRS]

PID No. *****

Federal Project No. E***(***)

***** [Name of consulting firm], Consultant
```

Dear Mr. ***: [use Mayor as title instead of Mr when applicable]

Transmitted herewith is an Agreement between the **** [Village/City/County/TID as applicable] and the Consultant for Construction Inspection of short work description for signature of consultant and signature/execution by the **** [VILAGE/CITY/COUNTY/TID as applicable].

Please return to the District:

- 1) **copy** of executed Consultant Agreement No. *****,
- 2) copy of the ****'s [Village/City/County/TID as applicable] letter of authorization.

The Invoice & Progress Schedule will be provided by the District after receipt of the documents.

The Consultant shall not be authorized to proceed prior to the Award date of the construction contract. Any costs incurred prior to the Award date will not be compensable.

Respectfully,

Enclosure

c: Project File

OHIO DEPARTMENT OF TRANSPORTATION INTER-OFFICE COMMUNICATION

Andrea Stevenson, Office of Local Programs To:

From: Date:

LPA Local Let Agreement No. ***** Re:

Consultant Agreement No. ***** *** [CRS] PID No. *****

Federal Project No. E***(***)
*** [Name of consulting firm], Consultant

Enclosed is a copy of the executed LPA Local Let Agreement and the Consultant Agreement with IPS for the subject project.

Adequate funds have been encumbered for this project under Encumbrance No. ******.

EXHIBIT "A"

Project File C:



Joshua R. Snyder, Public Works Engineer City of Sandusky 240 Columbus Avenue Sandusky, OH 44870

ERI-CR500-01.37, PID no. 113957 - Revised Scope and Fee

January 14, 2022

Dear Mr. Snyder:

As a follow-up to the Scope-of-Services meeting on December 17, 2021 and your comments on January 10, 2022, Mott MacDonald has prepared the ensuing Scope of Services for your review and consideration.

18013 Cleveland Parkway Drive Suite 200 Cleveland OH 44135 United States of America

T +1 (216) 535 3640 F +1 (216) 265 2816 www.mottmac.com/americas

PROJECT DESCRIPTION

The basis for the project is to design the improvements in order to rehabilitate CR500 (West Monroe Street) from Camp Street to Broadway Street, a distance of about 0.5 miles in the City of Sandusky. This project will include resurfacing, installation of a new storm sewer, and curb, sidewalk, drive, curb ramp and pavement replacement as necessary. See Fee Narrative for additional task details.

SCHEDULE

Mott MacDonald will complete these services in accordance with the proposed schedule, below.

Proposed Date	Original Date in RFQ
March 1, 2022	February 1, 2022
May 1, 2022	
N/A	May 1, 2022
N/A	June 1, 2022
November 1, 2022	November 1, 2022
December 1, 2022	December 1, 2022
April 1, 2023	
May 1, 2023	
August 15, 2024	August 15, 2024
	March 1, 2022 May 1, 2022 N/A N/A November 1, 2022 December 1, 2022 April 1, 2023 May 1, 2023

STAFFING

We have proposed Scott Piazza, PE as Project Manager for this project. Scott will serve as your primary contact, and primary contact with all outside agencies, and will lead the design. Chris Preto, PE will serve as Project Principal and QA/QC for this project.



EXCLUSIONS

- 1. If pre-bid services are desired, these will be negotiated at a later date.
- 2. If on-going services during construction are desired, these will be negotiated at a later date.

COMPENSATION

This proposal is developed following ODOT's Consultant Fee Estimation Guidance, April 2021. Mott MacDonald will provide the base services outlined herein for a cost plus not to exceed fee of \$150,500. Mott MacDonald will provide the if-authorized services outlined herein for a cost plus not to exceed fee of \$15,763. The grand total of these services is \$166,264.

These services will be invoiced monthly. Mott MacDonald will begin promptly upon receiving written authorization to proceed.

If you have any questions regarding the scope and fee, please feel free to contact me. Mott MacDonald appreciates this opportunity to assist the City of Sandusky.

Respectfully,

Mott MacDonald, LLC

Chair Preto

Chris Preto, PE, ENV SP, LEED AP
Principal Project Manager / Sr. Associate
T (216) 535-3647

C (513) 290-3468

chris.preto@mottmac.com

Appendix A

Scope of Services

Documents

EXHIBIT "A"

C-R-S	ERI-CR500-01.37						
		_					
Consultant:	Mott MacDonald	_					
Agreement No.	TBD	_					
Modification No. PID No.	0	-					
Proposal Date	113957 1/14/2022	— <u>թ</u> ∣	¥			Sed	
Froposai Date	1/14/2022	ask Needed	Consultant			ff-Authorized	
		- ×	nsι	ОБОТ	-	Ę.	
Task Description	n	Tas	Sol	8	LPA	₹	Narrative
2 - Preliminary	Engineering Phase						
2.1 - Develop Prelimi							
2.1.A -Prepare and (Complete Feasibility Study Report						
	, , , ,			1		1	City to conduct analysis of possible storm sewer location, determine location
2.1.A.G - Preliminary Al		Х			Х		of storm sewer and provide location to Mott MacDonald.
	nmental Field Studies						
	ces Scoping Request From	X	X				Assume 1 hour to review and coordinate Lawhon's work.
2.2.C - Ecological Surve	rials Review Screening Form	X	X				Assume 1 hour to review and coordinate Lawhon's work. Assume 1 hour to review and coordinate Lawhon's work.
2.3 - AER Design	nais review corecting rotti		_^				prosume i nour to review and occidinate Edwhorts work.
2.3.A - Field Survey	and Aerial Mapping						
							Assume 2 hours travel to field verify survey with senior roadway engineer
							and junior roadway engineer = 4 hours. Assume 4 hours field work = 8 hours. Assume 4 hours office work. 16 hours per visit. Assume 1 visit to field
							verify survey and assess curb, curb ramp and drive repairs. Assume 2 hours
2.3.A.C.1 - No R/W Pro	eject .	х	х				coordination. 18 total hours.
							Assume 77 property owners. Letters to be provided by the City and sent to
2.3.A.G - Property Own	er Notification	Х			Х		Mott MacDonald.
2.3.C - Drainage				1			Assume low complexity. 0.25 hours per station per ODOT fee guidance.
2.3.C.E - Conceptual Bit	MP	x	х				Assume 2600 feet = 26 stations * 0.25 hours = 6.5 hours.
2.6 - Public Involvem							
2.6.A - Public Involveme		Х			Х		City to lead public involvement efforts.
2.7 - Stage 1 Design							
2.7.A - Roadway 2.7.A.A - Title Sheet		х	Х	1	1	1	Assume law complexity 9 hours per sheet per ODOT for guidenes
2.7.A.B - Schematic Pla	an	X	X				Assume low complexity. 8 hours per sheet per ODOT fee guidance. Assume low complexity. 20 hours per sheet per ODOT fee guidance.
2.7.A.C - General Notes		X	X				Assume low complexity. 4 hours per sheet per ODOT fee guidance.
							Assume less than low complexity. 5 hours per section. Assume 2 existing
							sections (normal and left turn lane) and 3 proposed sections (resurfacing, full
0.7.4.D. T:1.04:			v				depth, left turn lane). 5 sections total. Assume 5 sections will fit onto 2
2.7.A.D - Typical Section	ins	Х	Х				sheets. 6 hours * 5 sections = 25 hours. Assume low complexity. 2 hours per section per ODOT fee guidance.
							Assume 400 feet / 50 ft section = 8 sections. Assume 4 sections/sheet = 2
2.7.A.E - Cross Section	s	X	×				sheets. 8 sections * 2 hours/section = 16 hours.
							Assume low complexity. 24 hours per sheet per ODOT fee guidance.
0745 00	N. M. C. P.	x					Assume 2600 feet / 500 ft sheet = 6 sheets. 24 hours * 6 sheets = 144
2.7.A.F - Plan and Profi	lie - Mainline	X	X				hours. Assume low complexity. 12 hours per intersection per ODOT fee guidance.
					_	_	Assume intersection details for Tiffin and Camp. 12 hours * 2 intersections =
2.7.A.J - Intersection De	etails	х	Х				24 hours.
							Assume very low complexity. 2 hours per drive. Assume 16 drives need
2.7.A.L - Driveway Deta	ails	Х	Х				reconstructed. 16 drives * 2 hours = 32 hours. Assume very low complexity. Assume 4 hours. Assume 2600 feet / 500 ft
2.7.A.N - Traffic Control	I	х	х				sheet = 6 sheets, 4 hours * 6 sheets = 24 hours.
2.7.B - Drainage		^	^	1		1	Shoot
							Assume low complexity. 0.5 hours per station per ODOT fee guidance.
2.7.B.A - Storm Sewer F	Profiles	Х	Х				Assume 2600 feet = 26 stations * 0.5 hours = 13 hours. Assume 2 sheets.
2.7.B.D.3 - Storm Sewe	ar.	x	х				Assume low complexity. 0.25 hours per station per ODOT fee guidance. Assume 2600 feet = 26 stations * 0.25 hours = 6.5 hours.
2.7.b.b.3 - 3toriii 3ewe	31	^	^				Assume low complexity. 0.5 hours per station per ODOT fee guidance.
2.7.B.E - BMP Design		х	Х			x	Assume 2600 feet = 26 stations * 0.5 hours = 13 hours. Assume 1 sheet.
2.7.C - Utilities							
							Assume low complexity. 8 hours per project per ODOT fee guidance.
	ation and Documentation	Х	Х	1			
2.7.D - Geotechnica	ll Services						I
2.7.D - Geotechnica 2.7.D.A - Geotechnical	Il Services Services and Report	X	X				Assume 4 hours to review and coordinate.
2.7.D - Geotechnical 2.7.D.A - Geotechnical 2.7.G - Miscellaneou	Il Services Services and Report us	X			 v		
2.7.D - Geotechnical 2.7.D.A - Geotechnical 2.7.G - Miscellaneou 2.7.G.C - Finalize Pavel	Il Services Services and Report us us une table				x		Assume 4 hours to review and coordinate. City will provide full depth pavement design to Mott MacDonald.
2.7.D - Geotechnica 2.7.D.A - Geotechnical 2.7.G - Miscellaneou 2.7.G.C - Finalize Paver 2.7.H - Prepare C2 (2.7.H.A - Roadway/Inter	Il Services Services and Report us ment Build up and subsurface drainage requirements Cost Estimates and Update Milestones rchange Costs	X			x		
2.7.D - Geotechnica 2.7.D.A - Geotechnical 2.7.G - Miscellaneou 2.7.G.C - Finalize Pavel 2.7.H - Prepare C2 (Il Services Services and Report us ment Build up and subsurface drainage requirements Cost Estimates and Update Milestones rchange Costs	x	х		x		City will provide full depth pavement design to Mott MacDonald. Assume low complexity. 24 hours per project per ODOT fee guidance.
2.7.D Geotechnica 2.7.D.A Geotechnical 2.7.G Miscellaneou 2.7.G.C Finalize Pavel 2.7.H Prepare C2 (2.7.H.A Roadway/Inter 2.7.J Maintenance	Il Services Services and Report us ment Build up and subsurface drainage requirements Cost Estimates and Update Milestones rchange Costs	x x x	x		x		City will provide full depth pavement design to Mott MacDonald. Assume low complexity. 24 hours per project per ODOT fee guidance. Assume low complexity. 8 hours per detour per ODOT fee guidance.
2.7.D - Geotechnica 2.7.D.A - Geotechnical 2.7.G.C - Miscellaneou 2.7.G.C - Finalize Paver 2.7.H Prepare C2 (2.7.H.A - Roadway/Inter 2.7.J - Maintenance 2.7.J.A - Detour Plan	Il Services Services and Report us ment Build up and subsurface drainage requirements Cost Estimates and Update Milestones rchange Costs of Traffic	x	х		X		City will provide full depth pavement design to Mott MacDonald. Assume low complexity. 24 hours per project per ODOT fee guidance.
2.7.D - Geotechnica 2.7.D.A - Geotechnical 2.7.G - Miscellaneou 2.7.G.C - Finalize Pave 2.7.H - Prepare C2 (2.7.H.A - Roadway/Inter 2.7.J - Maintenance	Il Services Services and Report us ment Build up and subsurface drainage requirements Cost Estimates and Update Milestones rchange Costs	x x x	x		x		City will provide full depth pavement design to Mott MacDonald. Assume low complexity. 24 hours per project per ODOT fee guidance. Assume low complexity. 8 hours per detour per ODOT fee guidance. Assume 1 detour.
2.7.D - Geotechnica 2.7.D.A - Geotechnical 2.7.G - Miscellaneou 2.7.G.C - Finalize Pave 2.7.H - Prepare C2 (2.7.H.A - Roadway/Inter 2.7.J - Maintenance	Il Services Services and Report us ment Build up and subsurface drainage requirements Cost Estimates and Update Milestones rchange Costs of Traffic	x x x	x		X		City will provide full depth pavement design to Mott MacDonald. Assume low complexity. 24 hours per project per ODOT fee guidance. Assume low complexity. 8 hours per detour per ODOT fee guidance.
2.7.D - Geotechnica 2.7.D.A - Geotechnical 2.7.G - Miscellaneou 2.7.G.C - Finalize Pave 2.7.H - Prepare C2 (2.7.H.A - Roadway/Inter 2.7.J - Maintenance 2.7.J.A - Detour Plan 2.8 - Project Manage	Il Services Services and Report us ment Build up and subsurface drainage requirements Cost Estimates and Update Milestones rchange Costs of Traffic	x x x	x x		X		City will provide full depth pavement design to Mott MacDonald. Assume low complexity. 24 hours per project per ODOT fee guidance. Assume low complexity. 8 hours per detour per ODOT fee guidance. Assume 1 detour. Assume low complexity. Assume 1 meeting with 2 attendees. Assume virtual meeting. Assume 2 hour meeting. Assume 1 hour for meeting agenda and 1 hour for meeting minutes. 2 hours *2 attendes = 4 hours + 2 hours for
2.7.D - Geotechnica 2.7.D.A - Geotechnical 2.7.G - Miscellaneou 2.7.G C - Finalize Pave 2.7.H - Prepare C2 (2.7.H.A - Roadway/Inter 2.7.J - Maintenance 2.7.J.A - Detour Plan 2.8 - Project Manage	Il Services Services and Report us ment Build up and subsurface drainage requirements Cost Estimates and Update Milestones rchange Costs of Traffic	x x x	x		X		City will provide full depth pavement design to Mott MacDonald. Assume low complexity. 24 hours per project per ODOT fee guidance. Assume low complexity. 8 hours per detour per ODOT fee guidance. Assume 1 detour. Assume low complexity. Assume 1 meeting with 2 attendees. Assume virtual meeting. Assume 2 hour meeting. Assume 1 hour for meeting agenda and 1 hour for meeting minutes. 2 hours * 2 attendes = 4 hours + 2 hours for agenda and minutes = 6 hours.
2.7.D - Geotechnica 2.7.D.A - Geotechnical 2.7.G - Miscellaneou 2.7.G C - Finalize Pave 2.7.H - Prepare C2 (2.7.H A - Roadway/Inter 2.7.J - Maintenance	Il Services Services and Report us ment Build up and subsurface drainage requirements Cost Estimates and Update Milestones rchange Costs of Traffic	x x x	x x		X		City will provide full depth pavement design to Mott MacDonald. Assume low complexity. 24 hours per project per ODOT fee guidance. Assume low complexity. 8 hours per detour per ODOT fee guidance. Assume 1 detour. Assume low complexity. Assume 1 meeting with 2 attendees. Assume virtual meeting. Assume 2 hour meeting. Assume 1 hour for meeting agenda and 1 hour for meeting minutes. 2 hours * 2 attendes = 4 hours + 2 hours for agenda and minutes = 6 hours. Assume very low complexity. Assume 4 hours per month. Assume 7 months
2.7.D - Geotechnica 2.7.D.A - Geotechnical 2.7.G - Miscellaneou 2.7.G.C - Finalize Pavel 2.7.H - Prepare C2 (2.7.H.A - Roadway/Inter 2.7.J - Maintenance 2.7.J.A - Detour Plan 2.8 - Project Manage	Il Services Services and Report us ment Build up and subsurface drainage requirements Cost Estimates and Update Milestones rchange Costs of Traffic	x x x	x x x		x		City will provide full depth pavement design to Mott MacDonald. Assume low complexity. 24 hours per project per ODOT fee guidance. Assume low complexity. 8 hours per detour per ODOT fee guidance. Assume 1 detour. Assume low complexity. Assume 1 meeting with 2 attendees. Assume virtual meeting. Assume 2 hour meeting. Assume 1 hour for meeting agenda and 1 hour for meeting minutes. 2 hours * 2 attendes = 4 hours + 2 hours for agenda and minutes = 6 hours. Assume very low complexity. Assume 4 hours per month. Assume 7 months (March, April, May, June, July, August) for Stage 1. 4 hours * 7 months = 28
2.7.D - Geotechnica 2.7.D.A - Geotechnical 2.7.G Miscellaneo 2.7.G Finalize Paver 2.7.H Prepare C2 (2.7.H.A - Roadway/Inter 2.7.J Maintenance 2.7.J.A - Detour Plan 2.8 - Project Manage	Il Services Services and Report us ment Build up and subsurface drainage requirements Cost Estimates and Update Milestones rchange Costs of Traffic ement for Preliminary Engineering Phase	x x x	x x		x		City will provide full depth pavement design to Mott MacDonald. Assume low complexity. 24 hours per project per ODOT fee guidance. Assume low complexity. 8 hours per detour per ODOT fee guidance. Assume 1 detour. Assume low complexity. Assume 1 meeting with 2 attendees. Assume virtual meeting. Assume 2 hour meeting. Assume 1 hour for meeting agenda and 1 hour for meeting minutes. 2 hours * 2 attendes = 4 hours + 2 hours for agenda and minutes = 6 hours. Assume very low complexity. Assume 4 hours per month. Assume 7 months
2.7.D - Geotechnica 2.7.D.A - Geotechnical 2.7.G Miscellaneou 2.7.G Finalize Paver 2.7.H - Prepare C2 (2.7.H.A - Roadway/Inter 2.7.J.A - Detour Plan 2.7.J.A - Detour Plan 2.8 - Project Manage 2.8.A - Meetings 2.8.B - General Oversig 3 - Stage 2 Det	Il Services Services and Report us ment Build up and subsurface drainage requirements Cost Estimates and Update Milestones rchange Costs of Traffic ment for Preliminary Engineering Phase	x x x	x x x		X		City will provide full depth pavement design to Mott MacDonald. Assume low complexity. 24 hours per project per ODOT fee guidance. Assume low complexity. 8 hours per detour per ODOT fee guidance. Assume 1 detour. Assume low complexity. Assume 1 meeting with 2 attendees. Assume virtual meeting. Assume 2 hour meeting. Assume 1 hour for meeting agenda and 1 hour for meeting minutes. 2 hours * 2 attendes = 4 hours + 2 hours for agenda and minutes = 6 hours. Assume very low complexity. Assume 4 hours per month. Assume 7 months (March, April, May, June, July, August) for Stage 1. 4 hours * 7 months = 28
2.7.D - Geotechnica 2.7.D.A - Geotechnica 2.7.G.A - Miscellaneo 2.7.G.C - Finalize Pavei 2.7.H - Prepare C2 (2 2.7.H.A - Roadway/Inter 2.7.J.A - Detour Plan 2.8 - Project Manage 2.8.A - Meetings 3 - Stage 2 Det 3.1 - Environmental I	Il Services Services and Report us ment Build up and subsurface drainage requirements Cost Estimates and Update Milestones rchange Costs of Traffic ment for Preliminary Engineering Phase ght ailed Design Phase Field Studies and Refined Impacts	x x x	x x x		X	X	City will provide full depth pavement design to Mott MacDonald. Assume low complexity. 24 hours per project per ODOT fee guidance. Assume low complexity. 8 hours per detour per ODOT fee guidance. Assume 1 detour. Assume low complexity. Assume 1 meeting with 2 attendees. Assume virtual meeting. Assume 2 hour meeting. Assume 1 hour for meeting agenda and 1 hour for meeting minutes. 2 hours * 2 attendes = 4 hours + 2 hours for agenda and minutes = 6 hours. Assume very low complexity. Assume 4 hours per month. Assume 7 months (March, April, May, June, July, August) for Stage 1. 4 hours * 7 months = 28 hours.
2.7.D - Geotechnica 2.7.D.A - Geotechnical 2.7.G - Miscellaneo 2.7.G - Finalize Pavel 2.7.H - Prepare C2 (2.7.H.A - Roadway/Inter 2.7.J.A - Detour Plan 2.8 - Project Manage 2.8.A - Meetings 2.8.B - General Oversig 3 - Stage 2 Det 3.1 - Environmental 1 3.1.A - Phase I Cultural	Il Services Services and Report us ment Build up and subsurface drainage requirements Cost Estimates and Update Milestones rchange Costs of Traffic ment for Preliminary Engineering Phase ght ailed Design Phase Field Studies and Refined Impacts	x x x	x x x		X	X	City will provide full depth pavement design to Mott MacDonald. Assume low complexity. 24 hours per project per ODOT fee guidance. Assume low complexity. 8 hours per detour per ODOT fee guidance. Assume 1 detour. Assume low complexity. Assume 1 meeting with 2 attendees. Assume virtual meeting. Assume 2 hour meeting. Assume 1 hour for meeting agenda and 1 hour for meeting minutes. 2 hours * 2 attendes = 4 hours + 2 hours for agenda and minutes = 6 hours. Assume very low complexity. Assume 4 hours per month. Assume 7 months (March, April, May, June, July, August) for Stage 1. 4 hours * 7 months = 28
2.7.D - Geotechnica 2.7.D.A - Geotechnica 2.7.G.A - Geotechnical 2.7.G Finalize Pavei 2.7.H - Prepare C2 (2 2.7.H.A - Roadway/Inter 2.7.J.A - Detour Plan 2.8 - Project Manage 2.8.A - Meetings 3 - Stage 2 Det 3.1 - Environmental I 3.1.A - Phase I Cultural 3.3 - Stage2 3.3 - Roadway	Il Services Services and Report us ment Build up and subsurface drainage requirements Cost Estimates and Update Milestones rchange Costs of Traffic ment for Preliminary Engineering Phase ght ailed Design Phase Field Studies and Refined Impacts	x x x	x x x		x	x	City will provide full depth pavement design to Mott MacDonald. Assume low complexity. 24 hours per project per ODOT fee guidance. Assume low complexity. 8 hours per detour per ODOT fee guidance. Assume 1 detour. Assume low complexity. Assume 1 meeting with 2 attendees. Assume virtual meeting. Assume 2 hour meeting. Assume 1 hour for meeting agenda and 1 hour for meeting minutes. 2 hours * 2 attendes = 4 hours + 2 hours for agenda and minutes = 6 hours. Assume very low complexity. Assume 4 hours per month. Assume 7 months (March, April, May, June, July, August) for Stage 1. 4 hours * 7 months = 28 hours.
2.7.D - Geotechnica 2.7.D.A - Geotechnica 2.7.G.A - Geotechnica 2.7.G.C - Finalize Pavel 2.7.H - Prepare C2 (2.7.H.A - RoadwayInter 2.7.J.A - Detour Plan 2.8 - Project Manage 2.8.A - Meetings 2.8.B - General Oversig 3 - Stage 2 Det 3.1 - Environmental I 3.1.A - Phase I Cultural 3.3 - Stage2 3.3.A - Roadway 3.3.A - Roadway 3.3.A - Title Sheet	Il Services Services and Report us ment Build up and subsurface drainage requirements Cost Estimates and Update Milestones rchange Costs of Traffic ment for Preliminary Engineering Phase ght ailed Design Phase Field Studies and Refined Impacts	X	x x x x x		X	x	City will provide full depth pavement design to Mott MacDonald. Assume low complexity. 24 hours per project per ODOT fee guidance. Assume low complexity. 8 hours per detour per ODOT fee guidance. Assume 1 detour. Assume low complexity. Assume 1 meeting with 2 attendees. Assume virtual meeting. Assume 2 hour meeting. Assume 1 hour for meeting agenda and 1 hour for meeting minutes. 2 hours * 2 attendes = 4 hours + 2 hours for agenda and minutes = 6 hours. Assume very low complexity. Assume 4 hours per month. Assume 7 months (March, April, May, June, July, August) for Stage 1. 4 hours * 7 months = 28 hours. Assume 1 hour to review and coordinate Lawhon's work.
2.7.D - Geotechnica 2.7.D.A - Geotechnica 2.7.G.A - Geotechnical 2.7.G.C - Finalize Pavel 2.7.H - Prepare C2 (2 2.7.H.A - Roadway/Inter 2.7.J.A - Detour Plan 2.8 - Project Manage 2.8.A - Meetings 3 - Stage 2 Det 3.1 - Environmental I 3.1.A - Phase I Cultural 3.3 - Stage2 3.3 - Roadway	Il Services Services and Report us ment Build up and subsurface drainage requirements Cost Estimates and Update Milestones rchange Costs of Traffic ment for Preliminary Engineering Phase ght ailed Design Phase Field Studies and Refined Impacts	x x x x x	x x x		X	X	City will provide full depth pavement design to Mott MacDonald. Assume low complexity. 24 hours per project per ODOT fee guidance. Assume low complexity. 8 hours per detour per ODOT fee guidance. Assume low complexity. Assume 1 meeting with 2 attendees. Assume virtual meeting. Assume 2 hour meeting. Assume 1 hour for meeting agenda and 1 hour for meeting minutes. 2 hours *2 attendes = 4 hours + 2 hours for agenda and minutes = 6 hours. Assume very low complexity. Assume 4 hours per month. Assume 7 months (March, April, May, June, July, August) for Stage 1. 4 hours *7 months = 28 hours. Assume 1 hour to review and coordinate Lawhon's work. Assume low complexity. 4 hours per sheet per ODOT fee guidance. Assume low complexity. 4 hours per sheet per ODOT fee guidance.
2.7.D - Geotechnica 2.7.D.A - Geotechnica 2.7.G.A - Geotechnica 2.7.G.C - Finalize Pavel 2.7.H - Prepare C2 (2.7.H.A - RoadwayInter 2.7.J.A - Detour Plan 2.8 - Project Manage 2.8.A - Meetings 2.8.B - General Oversig 3 - Stage 2 Det 3.1 - Environmental I 3.1.A - Phase I Cultural 3.3 - Stage2 3.3.A - Roadway 3.3.A - Roadway 3.3.A - Title Sheet	Il Services Services and Report us ment Build up and subsurface drainage requirements Cost Estimates and Update Milestones rchange Costs of Traffic ment for Preliminary Engineering Phase pht ailed Design Phase Field Studies and Refined Impacts Archaeological	X	x x x x x		x	x	City will provide full depth pavement design to Mott MacDonald. Assume low complexity. 24 hours per project per ODOT fee guidance. Assume low complexity. 8 hours per detour per ODOT fee guidance. Assume 1 detour. Assume low complexity. Assume 1 meeting with 2 attendees. Assume virtual meeting. Assume 2 hour meeting. Assume 1 hour for meeting agenda and 1 hour for meeting minutes. 2 hours * 2 attendes = 4 hours + 2 hours for agenda and minutes = 6 hours. Assume very low complexity. Assume 4 hours per month. Assume 7 months (March, April, May, June, July, August) for Stage 1. 4 hours * 7 months = 28 hours. Assume 1 hour to review and coordinate Lawhon's work.

C-R-S	ERI-CR500-01.37						
Consultant:	Mott MacDonald						
Agreement No.	TBD						
Modification No.	0						
PID No.	113957	-				-	
Proposal Date	1/14/2022	ě	Ħ			žec	
		ee	l ta			ě	
Task Description	1	Task Needed	Consultant	ОБОТ	LPA	f-Authorized	Narrative
rask Description	I	F	O	0		<u>=</u>	Assume low complexity. 2 hours per section per ODOT fee guidance.
							Assume 2 existing sections (normal and left turn lane) and 3 proposed
							sections (resurfacing, full depth, left turn lane). 5 sections total. Assume 5
3.3.A.D - Typical Section	ns	Х	Х				sections will fit onto 2 sheets. 2 hours * 5 sections = 10 hours.
							Assume law complexity 9 hours per cheet per ODOT for guidenes. Assume
3.3.A.E- Plan and Profile	e - Mainline	х	х				Assume low complexity. 8 hours per sheet per ODOT fee guidance. Assume 2600 feet / 500 ft sheet = 6 sheets. 8 hours * 6 sheets = 48 hours.
0.00 112 1 1411 4114 1 1011	o manino						Assume low complexity. 1 hours per section per ODOT fee guidance.
							Assume 400 feet / 50 ft section = 8 sections. Assume 4 sections/sheet = 2
3.3.A.H - Cross Sections	3	Х	Х				sheets. 8 sections * 1 hours/section = 8 hours.
							Assume low complexity. 12 hours per intersection per ODOT fee guidance. Assume intersection details for Tiffin and Camp. 12 hours * 2 intersections =
3.3.A.I - Intersection Det	ails	Х	х				24 hours.
3.3.B - Drainage			1	1		•	
							Assume low complexity. 0.25 hours per station per ODOT fee guidance.
3.3.B.A - Storm Sewer P	rofiles	Х	Х				Assume 2600 feet = 26 stations * 0.25 hours = 6.5 hours.
3.3.B.D - Underdrain det	raile	х	х				Assume low complexity. 0.25 hours per station per ODOT fee guidance. Assume 2600 feet = 26 stations * 0.25 hours = 6.5 hours.
3.3.B.D - Officerdrain der	idiis	^	^				Assume low complexity. 0.25 hours per station per ODOT fee guidance.
3.3.B.E - BMP details		х	х			х	Assume 2600 feet = 26 stations * 0.25 hours = 6.5 hours.
3.3.C - Traffic Contro	ol en						
			.,				Assume very low complexity. Assume 4 hours per sheet. Assume 2600 feet /
3.3.C.A - Pavement Mar 3.3.E - Maintenance		Х	Х				500 ft sheet = 6 sheets. 4 hours * 6 sheets = 24 hours.
3.3.E - Maintenance	OI TRAINC	I	I .	I .	1	1	Assume low complexity. 4 hours per sheet per ODOT fee guidance. Assume
3.3.E.A - MOT General I	Notes	х	х				2 sheets. 4 hours * 2 sheets = 8 hours.
							Assume low complexity. 2 hours per typical per ODOT fee guidance.
3.3.E.E - MOT Typical S	ections	Х	Х				Assume 2 typicals. Assume 1 sheet. 2 hours * 2 typicals = 4 hours.
3.3.J - Utilities	r ID			1			A CDOT (
3.3.J.A - Utility Coordina 3.5 - Prepare Environ		Х	Х				Assume low complexity. 8 hours per project per ODOT fee guidance.
3.5.A - Prepare Environr		Х	Х	1		1	Assume 1 hour to review and coordinate.
	Commitments and Plan Notes						recentle i fical te foriell and coordinate.
3.6.A - Environmental Co		Х	Х				Assume 2 hours to add environmental commitment plan notes.
	timates and Revise Milestone						- 11 A 11
3.9 - Project Manager	ment for Environmental Engineering Phase	_					
olo i rojost manage.	Hent for Environmental Engineering Flage	_					
olo i rojest manage.	Child Englishing in the	П	т			7	Assume very low complexity. Assume 4 hours per month per ODOT fee
	FXF	x	×	5	Т	T	guidance. Assume 4 months (September, October, November, December)
3.9.B - General Oversigl	ht E	х	x	5	I	Ι	
3.9.B - General Oversigl	nt eering and R/W Phase	х	х	5	L	I	guidance. Assume 4 months (September, October, November, December)
3.9.B - General Oversigl 4 - Final Engine 4.2 - Stage 3 Detailed 4.2.A - Quantities an	eering and R/W Phase Design Plans d Notes	х	x	5	L	I	guidance. Assume 4 months (September, October, November, December) for Stage 2. 4 hours * 4 months = 16 hours.
3.9.B - General Oversig 4 - Final Engine 4.2 - Stage 3 Detailed 4.2.A - Quantities an 4.2.A.A - Pavement Sub	pering and R/W Phase Design Plans d Notes summary	X	X	5		I	guidance. Assume 4 months (September, October, November, December) for Stage 2. 4 hours * 4 months = 16 hours. Assume low complexity. 12 hours per sheet per ODOT fee guidance.
3.9.B - General Oversigl 4 - Final Engine 4.2 - Stage 3 Detailed 4.2.A - Quantities an 4.2.A.A - Pavement Sub 4.2.A.B - Drainage Subs	eering and R/W Phase Design Plans d Notes summary ummary	Х	Х	5		_	guidance. Assume 4 months (September, October, November, December) for Stage 2. 4 hours * 4 months = 16 hours. Assume low complexity. 12 hours per sheet per ODOT fee guidance. Assume low complexity. 8 hours per sheet per ODOT fee guidance.
3.9.B - General Oversig 4 - Final Engine 4.2 - Stage 3 Detailed 4.2.A - Quantities an 4.2.A.A - Pavement Sub	eering and R/W Phase Design Plans d Notes summary ummary			3		_	guidance. Assume 4 months (September, October, November, December) for Stage 2. 4 hours * 4 months = 16 hours. Assume low complexity. 12 hours per sheet per ODOT fee guidance. Assume low complexity. 8 hours per sheet per ODOT fee guidance. Assume low complexity. 18 hours per sheet per ODOT fee guidance.
3.9.B - General Oversigl 4 - Final Engine 4.2 - Stage 3 Detailed 4.2.A - Quantities an 4.2.A.A - Pavement Sub 4.2.A.B - Drainage Subs	Design Plans d Notes summary ummary ummary	X	Х	5		I	guidance. Assume 4 months (September, October, November, December) for Stage 2. 4 hours * 4 months = 16 hours. Assume low complexity. 12 hours per sheet per ODOT fee guidance. Assume low complexity. 8 hours per sheet per ODOT fee guidance. Assume low complexity. 18 hours per sheet per ODOT fee guidance. Assume low complexity. 0.5 hours per sheet per ODOT fee guidance.
3.9.B - General Oversig 4 - Final Engine 4.2 - Stage 3 Detailed 4.2.A - Quantities an 4.2.A.A - Pavement Sub 4.2.A.B - Drainage Subs 4.2.A.C - Roadway Subs	nt eering and R/W Phase Design Plans d Notes summary ummary summary f Traffic Subsummary	Х	X	5			guidance. Assume 4 months (September, October, November, December) for Stage 2. 4 hours * 4 months = 16 hours. Assume low complexity. 12 hours per sheet per ODOT fee guidance. Assume low complexity. 8 hours per sheet per ODOT fee guidance. Assume low complexity. 18 hours per sheet per ODOT fee guidance. Assume low complexity. 0.5 hours per sheet per ODOT fee guidance. Assume 6 sheets. 0.5 * 6 = 3 hours. Assume low complexity. 17 hours per sheet per ODOT fee guidance.
3.9.B - General Oversigl 4 - Final Engine 4.2 - Stage 3 Detailed 4.2.A - Quantities an 4.2.A.A - Pavement Sub 4.2.A.B - Drainage Subs 4.2.A.C - Roadway Subs 4.2.A.E - Maintenance o 4.2.A.F - Pavement Mari	Design Plans d Notes summary summary summary f Traffic Subsummary king Subsummary	X X X	X X X	5			guidance. Assume 4 months (September, October, November, December) for Stage 2. 4 hours * 4 months = 16 hours. Assume low complexity. 12 hours per sheet per ODOT fee guidance. Assume low complexity. 8 hours per sheet per ODOT fee guidance. Assume low complexity. 18 hours per sheet per ODOT fee guidance. Assume low complexity. 0.5 hours per sheet per ODOT fee guidance. Assume 6 sheets. 0.5 * 6 = 3 hours. Assume low complexity. 17 hours per sheet per ODOT fee guidance. Assume low complexity. 18 hours per sheet per ODOT fee guidance. Assume low complexity. 18 hours per sheet per ODOT fee guidance.
3.9.B - General Oversigi 4 - Final Engine 4.2 - Stage 3 Detailed 4.2.A Quantities an 4.2.A.A - Pavement Sub 4.2.A.B - Drainage Subs 4.2.A.C - Roadway Subs 4.2.A.E - Maintenance o	Design Plans d Notes summary summary summary f Traffic Subsummary king Subsummary	X X	X X	5			guidance. Assume 4 months (September, October, November, December) for Stage 2. 4 hours * 4 months = 16 hours. Assume low complexity. 12 hours per sheet per ODOT fee guidance. Assume low complexity. 8 hours per sheet per ODOT fee guidance. Assume low complexity. 18 hours per sheet per ODOT fee guidance. Assume low complexity. 0.5 hours per sheet per ODOT fee guidance. Assume low complexity. 17 hours per sheet per ODOT fee guidance. Assume low complexity. 18 hours per sheet per ODOT fee guidance. Assume low complexity. 18 hours per sheet per ODOT fee guidance. Assume 2 sheets. 18 hours * 3 sheets = 54 hours.
3.9.B - General Oversigl 4 - Final Engine 4.2 - Stage 3 Detailed 4.2.A.A - Quantities an 4.2.A.A - Pavement Sub 4.2.A.B - Drainage Subs 4.2.A.C - Roadway Subs 4.2.A.E - Maintenance o 4.2.A.F - Pavement Marl 4.2.A.M - General Summ	Design Plans d Notes summary summary summary f Traffic Subsummary king Subsummary	X X X X	X X X X	5			guidance. Assume 4 months (September, October, November, December) for Stage 2. 4 hours * 4 months = 16 hours. Assume low complexity. 12 hours per sheet per ODOT fee guidance. Assume low complexity. 8 hours per sheet per ODOT fee guidance. Assume low complexity. 18 hours per sheet per ODOT fee guidance. Assume low complexity. 0.5 hours per sheet per ODOT fee guidance. Assume low complexity. 17 hours per sheet per ODOT fee guidance. Assume low complexity. 17 hours per sheet per ODOT fee guidance. Assume low complexity. 18 hours per sheet per ODOT fee guidance. Assume low complexity. 4 hours per sheet per ODOT fee guidance. Assume low complexity. 4 hours per sheet per ODOT fee guidance. Assume low complexity. 4 hours per sheet per ODOT fee guidance. Assume
3.9.B - General Oversigl 4 - Final Engine 4.2 - Stage 3 Detailed 4.2.A - Quantities an 4.2.A.A - Pavement Sub 4.2.A.B - Drainage Subs 4.2.A.C - Roadway Subs 4.2.A.E - Maintenance o 4.2.A.F - Pavement Mari	Design Plans d Notes summary summary summary f Traffic Subsummary king Subsummary	X X X	X X X	5			guidance. Assume 4 months (September, October, November, December) for Stage 2. 4 hours * 4 months = 16 hours. Assume low complexity. 12 hours per sheet per ODOT fee guidance. Assume low complexity. 8 hours per sheet per ODOT fee guidance. Assume low complexity. 18 hours per sheet per ODOT fee guidance. Assume low complexity. 0.5 hours per sheet per ODOT fee guidance. Assume low complexity. 17 hours per sheet per ODOT fee guidance. Assume low complexity. 18 hours per sheet per ODOT fee guidance. Assume low complexity. 18 hours per sheet per ODOT fee guidance. Assume 2 sheets. 18 hours * 3 sheets = 54 hours.
3.9.B - General Oversigi 4 - Final Engine 4.2 - Stage 3 Detailed 4.2.A - Quantities an 4.2.A.A - Pavement Sub 4.2.A.B - Drainage Subs 4.2.A.C - Roadway Subs 4.2.A.E - Maintenance o 4.2.A.F - Pavement Marl 4.2.A.M - General Summ 4.2.A.P - General Notes 4.2.A.Q - Driveway Subs	Design Plans d Notes summary ummary summary f Traffic Subsummary king Subsummary mary Sheet summary or Driveway Details (if included on same sheet)	X X X X	X X X X	3			guidance. Assume 4 months (September, October, November, December) for Stage 2. 4 hours * 4 months = 16 hours. Assume low complexity. 12 hours per sheet per ODOT fee guidance. Assume low complexity. 8 hours per sheet per ODOT fee guidance. Assume low complexity. 18 hours per sheet per ODOT fee guidance. Assume low complexity. 0.5 hours per sheet per ODOT fee guidance. Assume 6 sheets. 0.5 * 6 = 3 hours. Assume low complexity. 17 hours per sheet per ODOT fee guidance. Assume low complexity. 18 hours per sheet per ODOT fee guidance. Assume 2 sheets. 18 hours * 3 sheets = 54 hours. Assume low complexity. 4 hours per sheet per ODOT fee guidance. Assume 3 sheets. 4 hours * 3 sheets = 12 hours.
3.9.B - General Oversigi 4 - Final Engine 4.2 - Stage 3 Detailed 4.2.A - Quantities an 4.2.A.A - Pavement Sub 4.2.A.B - Drainage Subs 4.2.A.C - Roadway Subs 4.2.A.F - Maintenance o 4.2.A.F - Pavement Mari 4.2.A.M - General Summ 4.2.A.P - General Notes 4.2.A.Q - Driveway Subs 4.2.D - Miscellaneou	Design Plans d Notes summary ummary summary f Traffic Subsummary king Subsummary hary Sheet summary or Driveway Details (if included on same sheet)	X X X X X	X X X X X	5			guidance. Assume 4 months (September, October, November, December) for Stage 2. 4 hours * 4 months = 16 hours. Assume low complexity. 12 hours per sheet per ODOT fee guidance. Assume low complexity. 8 hours per sheet per ODOT fee guidance. Assume low complexity. 18 hours per sheet per ODOT fee guidance. Assume low complexity. 0.5 hours per sheet per ODOT fee guidance. Assume 6 sheets. 0.5 * 6 = 3 hours. Assume low complexity. 17 hours per sheet per ODOT fee guidance. Assume low complexity. 18 hours per sheet per ODOT fee guidance. Assume low complexity. 18 hours per sheet per ODOT fee guidance. Assume low complexity. 4 hours per sheet per ODOT fee guidance. Assume low complexity. 4 hours per sheet per ODOT fee guidance. Assume 3 sheets. 4 hours * 3 sheets = 12 hours. Assume low complexity. 0.5 hours / sheet + 8 hours for base subsummary sheet per ODOT fee guidance. Assume 1 sheets. 8.5 hours.
3.9.B - General Oversigi 4 - Final Engine 4.2 - Stage 3 Detailed 4.2.A Quantities an 4.2.A.A - Pavement Sub 4.2.A.B - Drainage Subs 4.2.A.C - Roadway Subs 4.2.A.E - Maintenance o 4.2.A.F - Pavement Mari 4.2.A.M - General Summ 4.2.A.M - General Notes 4.2.A.Q - Driveway Subs	Design Plans d Notes summary ummary summary f Traffic Subsummary king Subsummary hary Sheet summary or Driveway Details (if included on same sheet)	X X X X	X X X X	5		x	guidance. Assume 4 months (September, October, November, December) for Stage 2. 4 hours * 4 months = 16 hours. Assume low complexity. 12 hours per sheet per ODOT fee guidance. Assume low complexity. 8 hours per sheet per ODOT fee guidance. Assume low complexity. 18 hours per sheet per ODOT fee guidance. Assume low complexity. 18 hours per sheet per ODOT fee guidance. Assume 6 sheets. 0.5 * 6 = 3 hours. Assume low complexity. 17 hours per sheet per ODOT fee guidance. Assume low complexity. 18 hours per sheet per ODOT fee guidance. Assume low complexity. 3 sheets = 54 hours. Assume low complexity. 4 hours per sheet per ODOT fee guidance. Assume 3 sheets. 4 hours * 3 sheets = 12 hours. Assume low complexity. 0.5 hours / sheet + 8 hours for base subsummary sheet per ODOT fee guidance. Assume 18 hours.
3.9.B - General Oversigi 4 - Final Engine 4.2 - Stage 3 Detailed 4.2.A - Quantities an 4.2.A.A - Pavement Sub 4.2.A.B - Drainage Subs 4.2.A.C - Roadway Subs 4.2.A.F - Maintenance o 4.2.A.F - Pavement Mari 4.2.A.M - General Summ 4.2.A.P - General Notes 4.2.A.Q - Driveway Subs 4.2.D - Miscellaneou	Design Plans d Notes summary ummary summary f Traffic Subsummary king Subsummary hary Sheet summary or Driveway Details (if included on same sheet)	X X X X X	X X X X X	5		x	guidance. Assume 4 months (September, October, November, December) for Stage 2. 4 hours * 4 months = 16 hours. Assume low complexity. 12 hours per sheet per ODOT fee guidance. Assume low complexity. 8 hours per sheet per ODOT fee guidance. Assume low complexity. 18 hours per sheet per ODOT fee guidance. Assume low complexity. 0.5 hours per sheet per ODOT fee guidance. Assume low complexity. 17 hours per sheet per ODOT fee guidance. Assume low complexity. 17 hours per sheet per ODOT fee guidance. Assume low complexity. 18 hours per sheet per ODOT fee guidance. Assume low complexity. 4 hours per sheet per ODOT fee guidance. Assume low complexity. 4 hours per sheet per ODOT fee guidance. Assume 3 sheets. 4 hours * 3 sheets = 12 hours. Assume low complexity. 0.5 hours / sheet + 8 hours for base subsummary sheet per ODOT fee guidance. Assume 18 hours. Assume 18 hours. Assume 18 hours.
3.9.B - General Oversigl 4 - Final Engine 4.2 - Stage 3 Detailed 4.2.A Quantities an 4.2.A.A - Pavement Sub 4.2.A.B - Drainage Subs 4.2.A.C - Roadway Subs 4.2.A.F - Pavement Mari 4.2.A.F - Pavement Mari 4.2.A.M - General Summ 4.2.A.P - General Notes 4.2.A.Q - Driveway Subs 4.2.D - Miscellaneou	Design Plans d Notes summary ummary summary f Traffic Subsummary king Subsummary nary Sheet summary or Driveway Details (if included on same sheet) s an	X X X X X	X X X X X	5		X	guidance. Assume 4 months (September, October, November, December) for Stage 2. 4 hours * 4 months = 16 hours. Assume low complexity. 12 hours per sheet per ODOT fee guidance. Assume low complexity. 8 hours per sheet per ODOT fee guidance. Assume low complexity. 18 hours per sheet per ODOT fee guidance. Assume low complexity. 18 hours per sheet per ODOT fee guidance. Assume 6 sheets. 0.5 * 6 = 3 hours. Assume low complexity. 17 hours per sheet per ODOT fee guidance. Assume low complexity. 18 hours per sheet per ODOT fee guidance. Assume low complexity. 3 sheets = 54 hours. Assume low complexity. 4 hours per sheet per ODOT fee guidance. Assume 3 sheets. 4 hours * 3 sheets = 12 hours. Assume low complexity. 0.5 hours / sheet + 8 hours for base subsummary sheet per ODOT fee guidance. Assume 18 hours.
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SUMMARY OF STEPS

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C-R-S ERI-CR500-01.37

Consultant: Mott MacDonald

Agreement No. TBD

Modification No. 0

PID No. 113957

Proposal Date 1/14/2022

Environmental Engineering Phase	Average Hourly Rate	Total Hours	Labor Costs	Overhead Costs	Cost of Money	Direct Costs	Subcon Costs	Net Fee	Total Cost
\$0.00 0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0		SKS:							
Preliminary Engineering Phase \$0.00 422 \$18,309 \$29,726 \$31 \$275 \$46,456 \$5,169 \$50 \$50.00 199 \$8,599 \$13,961 \$15 \$124 \$5,635 \$2,428 \$35 \$5,169 \$10,00 \$199 \$8,599 \$13,961 \$15 \$124 \$5,635 \$2,428 \$35 \$10,00 \$15.5 \$6,753 \$10,965 \$111 \$136 \$0 \$1,907 \$10 \$1									
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\$0.00 199 \$8,599 \$13,961 \$15 \$124 \$5,635 \$2,428 \$35 \$101 \$100 \$150 \$150 \$150 \$150 \$150 \$15	*		\$18,309	\$29,726	\$31	\$275	\$46,456	\$5,169	\$99,966
Final Engineering Phase \$0.00									
\$0.00 156.5 \$6,753 \$10,965 \$11 \$136 \$0 \$1,907 \$1 Construction Engineering Phase \$0.00 \$0 \$0 \$0 \$0 \$0 \$0 TOTAL AUTHORIZED TASKS \$0.00 777.5 \$33,661 \$54,652 \$57 \$535 \$52,091 \$9,504 \$150 F-AUTHORIZED TASKS: Planning Phase \$13 \$514 \$835 \$1 \$0 \$0 \$145 \$5 Stage 2 Detailed Design Phase 7.5 \$316 \$513 \$1 \$0 \$11,244 \$89 \$1 Final Engineering Phase \$18 \$725 \$1,176 \$1 \$0 \$0 \$205 \$5 Construction Engineering Phase \$150 \$0 \$205 \$5 TOTAL IF-AUTHORIZED TASKS \$1,554 \$2,523 \$3 \$0 \$11,244 \$439 \$150 TOTAL IF-AUTHORIZED TASKS \$1,554 \$2,523 \$3 \$0 \$11,244 \$439 \$150 TOTAL IF-AUTHORIZED TASKS \$1,554 \$2,523 \$3 \$0 \$11,244 \$439 \$150 TOTAL IF-AUTHORIZED TASKS \$1,554 \$2,523 \$3 \$0 \$11,244 \$439 \$150 TOTAL IF-AUTHORIZED TASKS \$1,554 \$2,523 \$3 \$0 \$11,244 \$439 \$150 TOTAL IF-AUTHORIZED TASKS \$1,554 \$2,523 \$3 \$0 \$11,244 \$439 \$150 TOTAL IF-AUTHORIZED TASKS \$1,554 \$2,523 \$3 \$0 \$11,244 \$439 \$150 TOTAL IF-AUTHORIZED TASKS \$1,554 \$2,523 \$3 \$0 \$11,244 \$439 \$150 TOTAL IF-AUTHORIZED TASKS \$1,554 \$2,523 \$3 \$0 \$11,244 \$439 \$150 TOTAL IF-AUTHORIZED TASKS \$1,554 \$2,523 \$3 \$0 \$11,244 \$439 \$150 TOTAL IF-AUTHORIZED TASKS \$1,554 \$2,523 \$3 \$0 \$11,244 \$439 \$150 TOTAL IF-AUTHORIZED TASKS \$1,554 \$2,523 \$3 \$0 \$11,244 \$439 \$150 TOTAL IF-AUTHORIZED TASKS \$1,554 \$2,523 \$3 \$0 \$11,244 \$439 \$150 TOTAL IF-AUTHORIZED TASKS \$1,554		199	\$8,599	\$13,961	\$15	\$124	\$5,635	\$2,428	\$30,762
Construction Engineering Phase \$0.00 0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 TOTAL AUTHORIZED TASKS \$0.00 777.5 \$33,661 \$54,652 \$57 \$535 \$52,091 \$9,504 \$150 IF-AUTHORIZED TASKS: Planning Phase Preliminary Engineering Phase 13 \$514 \$835 \$1 \$0 \$0 \$145 \$5465 \$566 \$166 \$166 \$166 \$166 \$166 \$166 \$1	0 0								
\$0.00 0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0			\$6,753	\$10,965	\$11	\$136	\$0	\$1,907	\$19,772
TOTAL AUTHORIZED TASKS \$0.00 777.5 \$33,661 \$54,652 \$57 \$535 \$52,091 \$9,504 \$156 IF-AUTHORIZED TASKS: Planning Phase Preliminary Engineering Phase 13 \$514 \$835 \$1 \$0 \$0 \$0 \$145 \$5 Stage 2 Detailed Design Phase 7.5 \$316 \$513 \$1 \$0 \$11,244 \$89 \$1 Final Engineering Phase 18 \$725 \$1,176 \$1 \$0 \$0 \$0 \$205 \$5 Construction Engineering Phase TOTAL IF-AUTHORIZED TASKS 38.5 \$1,554 \$2,523 \$3 \$0 \$11,244 \$439 \$15	0 0	Phase							
\$0.00 777.5 \$33,661 \$54,652 \$57 \$535 \$52,091 \$9,504 \$150 IF-AUTHORIZED TASKS: Planning Phase Preliminary Engineering Phase 13 \$514 \$835 \$1 \$0 \$0 \$145 \$5 Stage 2 Detailed Design Phase 7.5 \$316 \$513 \$1 \$0 \$11,244 \$89 \$1 Final Engineering Phase 18 \$725 \$1,176 \$1 \$0 \$0 \$0 \$205 \$5 Construction Engineering Phase TOTAL IF-AUTHORIZED TASKS 38.5 \$1,554 \$2,523 \$3 \$0 \$11,244 \$439 \$15	*		\$0	\$0	\$0	\$0	\$0	\$0	\$0
IF-AUTHORIZED TASKS: Planning Phase		SKS							
Planning Phase 13 \$514 \$835 \$1 \$0 \$0 \$145 \$5 Stage 2 Detailed Design Phase 7.5 \$316 \$513 \$1 \$0 \$11,244 \$89 \$1 Final Engineering Phase 18 \$725 \$1,176 \$1 \$0 \$0 \$0 \$205 \$5 Construction Engineering Phase TOTAL IF-AUTHORIZED TASKS 38.5 \$1,554 \$2,523 \$3 \$0 \$11,244 \$439 \$15	\$0.00	777.5	\$33,661	\$54,652	\$57	\$535	\$52,091	\$9,504	\$150,500
13 \$514 \$835 \$1 \$0 \$0 \$0 \$145 \$5 \$1 \$0 \$0 \$0 \$145 \$5 \$1 \$0 \$0 \$0 \$145 \$5 \$1 \$0 \$0 \$0 \$145 \$5 \$1 \$0 \$0 \$0 \$145 \$0 \$0 \$145 \$1 \$0 \$0 \$11,244 \$89 \$1 \$1 \$1,244 \$89 \$1 \$1 \$0 \$0 \$11,244 \$89 \$1 \$1 \$1,244 \$1		ASKS:	_	_	_	_	_		_
13 \$514 \$835 \$1 \$0 \$0 \$0 \$145 \$5 \$1 \$0 \$0 \$0 \$145 \$5 \$1 \$0 \$0 \$0 \$145 \$5 \$1 \$0 \$0 \$0 \$145 \$5 \$1 \$0 \$0 \$0 \$145 \$0 \$0 \$145 \$1 \$0 \$0 \$11,244 \$89 \$1 \$1 \$1,244 \$89 \$1 \$1 \$0 \$0 \$11,244 \$89 \$1 \$1 \$1,244 \$1									
Stage 2 Detailed Design Phase 7.5	Preliminary Engineering Ph								
7.5 \$316 \$513 \$1 \$0 \$11,244 \$89 \$1 Final Engineering Phase 18 \$725 \$1,176 \$1 \$0 \$0 \$0 \$205 \$1 Construction Engineering Phase TOTAL IF-AUTHORIZED TASKS 38.5 \$1,554 \$2,523 \$3 \$0 \$11,244 \$439 \$15			\$514	\$835	\$1	\$0	\$0	\$145	\$1,495
Final Engineering Phase 18 \$725 \$1,176 \$1 \$0 \$0 \$205 \$5 Construction Engineering Phase TOTAL IF-AUTHORIZED TASKS 38.5 \$1,554 \$2,523 \$3 \$0 \$11,244 \$439 \$15	Stage 2 Detailed Design Pl								
TOTAL IF-AUTHORIZED TASKS 38.5 \$1,554 \$2,523 \$3 \$0 \$11,244 \$439 \$11		7.5	\$316	\$513	\$1	\$0	\$11,244	\$89	\$12,162
Construction Engineering Phase TOTAL IF-AUTHORIZED TASKS 38.5 \$1,554 \$2,523 \$3 \$0 \$11,244 \$439 \$11	Final Engineering Phase								
TOTAL IF-AUTHORIZED TASKS 38.5 \$1,554 \$2,523 \$3 \$0 \$11,244 \$439 \$15			\$725	\$1,176	\$1	\$0	\$0	\$205	\$2,107
38.5 \$1,554 \$2,523 \$3 \$0 \$11,244 \$439 \$15	Construction Engineering F	Phase				-			**
38.5 \$1,554 \$2,523 \$3 \$0 \$11,244 \$439 \$15		_							
	TOTAL IF-AUTHORIZED			20 500	20	-	0 44 044	0.100	A45 700
ODANID TOTAL SAC SOCIAL SETATE SOCIAL SECURITIES SACRES		38.5	\$1,554	\$2,523	\$3	\$0	\$11,244	\$439	\$15,763
GRAND LUIAL XIN KY5715 K5/1/5 K60 K535 K62 225 K0 0/21 K166	GRAND TOTAL	816	\$35,215	\$57,175	\$60	\$535	\$63,335	\$9,943	\$166,264

C-R-S	ERI-CR500-01.37		PR	OPOS	AL LA	BOR S	SUMM	ARY				version: Sept 2021
Consultant:	Mott MacDonald											
Agreement No.	TBD											
Modification No.												
PID No.	113957											
Proposal Date	1/14/2022											
r ropodur Buto	IV-VECEE		Transportatio	Project	Project Manager/Sr. Roadway	Junior Roadway	Senior Traffic				_	- 1 - 1
		No. of Units	n Director	Principal	Engineer	Engineer	Engineer	Engineer	Technician	Admin.	Į.	otal
Task Descriptio	n		\$90.50	\$72.25	\$58.75	\$31.00	\$63.25	\$38.25	\$43.00	\$35.50	Hours	Cost
AUTHORIZED	TASKS:											
2 - Preliminary	Engineering Phase											
2.1 - Develop Prelim	inary Alternatives											
	Complete Feasibility Study Report											
2.1.A.G - Prelimin	ary Alignment and Profile										0	\$0
	TOTAL 2.1 - Develop Preliminary Alternatives	0	0	0	0	0	0	0	0	0	0	\$0
	onmental Field Studies		, , , , , , , , , , , , , , , , , , , ,			,			1			
	sources Scoping Request From	1			1						1	\$59
2.2.C - Ecological S		1			1			\sim			1	\$59
	Materials Review Screening Form	1			1						1	\$59
	TOTAL 2.2 - Perform Environmental Field Studies	3	0	0	3	0	0	U	0	0	3	\$176
2.3 - AER Design		•			_							
	v and Aerial Mapping				_							
	apping (incl. field verify.)						_	_				
2.3.A.C.1 - No R		1			10	8	1		1		18	\$836
	/ Owner Notification										0	\$0
2.3.C - Drainage									·	,		
2.3.C.E - Concept	tual BMP	1		1	2	3.5		1	1		6.5	\$298
	TOTAL 2.3 - AER Design	2	0	1	12	11.5	0	0	0	0	24.5	\$1,134
2.6 - Public Involver												. , .
2.6.A - Public Involv	vement / Coordination	1									0	\$0
	TOTAL 2.6 - Public Involvement/Coordination	1	0	0	0	0	0	0	0	0	0	\$0
2.7 - Stage 1 Design												
2.7.A - Roadway						,						
2.7.A.A - Title She		1			2	6					8	\$304
2.7.A.B - Schema		1			7	13				1	20	\$814
2.7.A.C - General		1			1 7	3	-			1	4	\$152
2.7.A.D - Typical S 2.7.A.E - Cross So		2			7 5	18 11				1	25 16	\$969
2.7.A.E - Cross So 2.7.A.F - Plan and		6		6	48	90				 	16 144	\$635 \$6,044
2.7.A.J - Intersect		2		О	8	16				1	24	\$6,044
2.7.A.L - Driveway		4			11	21					32	\$1,297
2.7.A.N - Traffic C		6			8	16	1				24	\$966
2.7.B - Drainage							<u> </u>	'	<u> </u>	1		\$550
2.7.B.A - Storm S	ewer Profiles	2			4	9		1			13	\$514
2.7.B.D - Drainage					7	,				+	n	\$314
2.7.B.D.3 - Storm		1			2	4.5	1				6.5	\$257
2.7.B.E - BMP De						7.0	1				0.5	\$0
2.7.C - Utilities	•				1	1	-1	l .	1	1	ľ	ΨΟ

C-R-S	ERI-CR500-01.37		PR	OPOS	AL LA	BOR :	SUMM	ARY				version: Sept 2021
Consultant:	Mott MacDonald											
Agreement No.	TBD											
Modification No.												
PID No.	113957											
Proposal Date	1/14/2022				Project							
					Manager/Sr.	Junior						
			Transportatio	Project	Roadway	Roadway	Senior Traffic	Junior Traffic				
		No. of Units		Principal	Engineer	Engineer	Engineer	Engineer	Technician	Admin.	To	otal
					3	J						
Task Descriptio	ın.		\$90.50	\$72.25	\$50.75	604.00	\$63.25	#20.05	£40.00	\$35.50	Hours	Cost
			\$90.50	\$72.25	\$58.75	\$31.00	\$63.25	\$38.25	\$43.00	\$35.50	nours	
2.7.C.A - Utility Co	oordination and Documentation	1			8						8	\$470
2.7.D - Geotechnica								ı	1			****
	nnical Services and Report	1			4						4	\$235
2.7.G - Miscellaneo					1	1			1			
	Pavement Build up and subsurface drainage	1				1					_	
requirements	0.456.4					I					0	\$0
	Cost Estimates and Update Milestones				1	1			1			
	y/Interchange Costs	1		1	8	15					24	\$1,007
2.7.J - Maintenance					1	,			1			
2.7.J.A - Detour P		1			3	5					8	\$331
	TOTAL - 2.7 - Stage 1 Design	1 32	0	7	126	227.5	0	0	0	0	360.5	\$14,961
2.8 - Project Manage	ement for Preliminary Engineering Phase	4						Λ				
2.8.A - Meetings		1			6	ı					6	\$353
2.8.B - General Ove	ersight	1		3	25				_		28	\$1,686
	TOTAL 2.8 - Project Management for										_,	41,000
	Preliminary Engineering Phase		0	3	31	0	0 /		0	0	34	\$2,038
												*
	Total - 2 Preliminary Engineering Phase	2 41	0	11	172	239	0	0	0	0	422	\$18,309
												,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
3 - Stage 2 Det	ailed Design											
3.3 - Stage2												
3.3.A - Roadway												
3.3.A.A - Title She	oot	1			1	3		1	I		4	\$152
3.3.A.A - Title She 3.3.A.B - Schema		1			1	3	+				4	\$152 \$152
3.3.A.B - Schema		3			9	15	+				24	\$152 \$994
3.3.A.D - Typical		2		1	3	6					10	\$994 \$435
	d Profile - Mainline		+				+					
		6	+	3	15	30	+				48 8	\$2,028
3.3.A.H - Cross S		2			3	5					Ü	\$331
3.3.A.I - Intersecti	on Details	2			8	16		I	1		24	\$966
3.3.B - Drainage												
3.3.B.A - Storm S		1			2	4.5					6.5	\$257
3.3.B.D - Underdr		1			2	4.5					6.5	\$257
3.3.B.E - BMP De											0	\$0
3.3.C - Traffic Cont												
3.3.C.A - Paveme		6			6	18					24	\$911
3.3.C.B - Signing	Plan					1					0	\$0
3.3.E - Maintenance					•			•				
3.3.E.A - MOT Ge	eneral Notes	2		1	2	5					8	\$345
3.3.E.E - MOT Ty		1			1	3					4	\$152
3.3.E.F - MOT Pla	an Sheets	1									n	\$0
3.3.J - Utilities					1	1	1	ſ	1	1	, and the second	ψű.
	pordination and Documentation	1			8	1	1		1		8	\$470
2.3.5 Cunty Oc		1	1			1	1	1	1	1	U	ΨΤΙ

C-R-S	ERI-CR500-01.37		PR	OPOS	AL LA	BOR S	SUMM	ARY				version: Sept 2021
Consultant:	Mott MacDonald											
Agreement No.	TBD											
Modification No.												
PID No.	113957											
Proposal Date	1/14/2022											
Troposar bate	111702022	No. of Units	Transportatio n Director	Project Principal	Project Manager/Sr. Roadway Engineer	Junior Roadway Engineer	Senior Traffic Engineer	Junior Traffic Engineer	Technician	Admin.	To	otal
Task Descriptio	on		\$90.50	\$72.25	\$58.75	\$31.00	\$63.25	\$38.25	\$43.00	\$35.50	Hours	Cost
_	TOTAL 3.3 - Stage2	29	0	5	61	113	1	0	0	0	180	\$7,511
	101712010 0111902	20	U	ວ	01	113	T '	l	l	1	160	Φ 1,311
3.5 - Prepare Enviro	nmental Document				<u> </u>		1			-		
	vironmental Document	1			1						1	\$59
	TOTAL 3.5 - Prepare Environmental Document	1	0	0	1	0	0	0	0	0	1	\$59
					1		T				,	Ψ00
3.6 - Environmental	Commitments and Plan Notes					<u> </u>	<u> </u>	·	<u> </u>	•		
	tal Commitment Plan Notes	1				2					2	\$62
	3.6 - Environmental Commitments and Plan Notes	1	0	0	0	2	0	0	0	0	2	\$62
3.8 - Prepare Cost E	stimates and Revise Milestone											
3.8.A - Roadway/Int	terchange Costs	_									0	\$0
TOTAL 3	8.8 - Prepare Cost Estimates and Revise Milestone	0	0	0	0	0	0	0	0	0	0	\$0
3.9 - Project Manage	ement for Environmental Engineering Phase			K								
3.9.A - Meetings						l					0	\$0
3.9.B - General Ove	ersight	1		2	14						16	\$967
	TOTAL 3.9 - Project Management for Environmental Engineering Phase	1	0	2	14	0	0	0	0	0	16	\$967
	Total - 3 Stage 2 Detailed Design Phase	32	0	7	76	115	1	0	0	0	199	\$8,599
4 - Final Engin	eering and R/W Phase											
4.2 - Stage 3 Detaile	d Design Plans											
4.2.A - Quantities a	ind Notes				·		1	1	l			
4.2.A.A - Paveme		1			4	8					12	\$483
4.2.A.B - Drainage		1			3	5					.2	\$331
4.2.A.C - Roadwa		1			3	6					9	\$362
	ance of Traffic Subsummary	1			1	2					3	\$121
	nt Marking Subsummary	1			2		5	10			17	\$816
4.2.A.M - General	Summary Sheet	2		1	12	23					36	\$1,490
4.2.A.P - General	Notes	3			4	8					12	\$483
4.2.A.Q - Drivewa	y Subsummary or Driveway Details (if included on	1										
same sheet)		1			3	5.5					8.5	\$347
4.2.D - Miscellaneo	us											
4.2.D.F - Miscellar	neous Details	4			4	12					16	\$607
	TOTAL 4.2 - Stage 3 Detailed Design Plans	15	0	1	36	69.5	5	10	0	0	121.5	\$5,041
4.3 - Prepare Cost E	stimates and Revise Milestone				·		·			•		
4.3.A - Roadway/Int		1		1	3	6					10	\$435
	.3 - Prepare Cost Estimates and Revise Milestone	1	0	1	3	6	0	0	0	0	10	\$435

C-R-S	ERI-CR500-01.37		PR	OPOS	AL LA	BOR S	SUMMA	ARY				Version: Sept 2021
Consultant:	Mott MacDonald											·
Agreement No.	TBD											
Modification No.												
PID No.	113957											
Proposal Date	1/14/2022				Project							
		No. of Units	Transportatio n Director	Project Principal	Manager/Sr. Roadway Engineer	Junior Roadway Engineer	Senior Traffic Engineer	Junior Traffic Engineer	Technician	Admin.	To	otal
Task Descriptio	on		\$90.50	\$72.25	\$58.75	\$31.00	\$63.25	\$38.25	\$43.00	\$35.50	Hours	Cost
4.4 - Final Plan Pack				4		7					44	C 40
4.4.A - Submission	of Final Tracings and Documentation 4.4 - Final Plan Package	44 44	0	1	3	7	0	0	0	0	11 11	\$466 \$466
Phase	ement for Final Engineering and Right of Way			'		,		U			"	φ400
4.5.A - Meetings		1			6						6	\$353
4.5.B - General Ove	ersight of Management for Final Engineering and Right of	1		1	6					1	8	\$460
	Way Phase	2	0	1	12	0	0	0	0	1	14	\$813
4.6 - Pre-Bid Activiti					_							•
4.6.A - Pre-Bid Que	TOTAL 4.6 - Pre-Bid Activities	0	0	0	0	0	0	0	0	0	0	\$(
	TOTAL 4.0 THE BIG ACTIVITIES										0	Ψ
4.7 - Limited Review												
4.7.A - QA/QC for L											0	\$
	4.7 - Limited Review	0	0	0	0	0	0	0	0	0	0	\$
	TOTAL - Final Engineering Phase	62	0	4	54	82.5	5	10	0	1	156.5	\$6,753
	TOTAL Timal Engineering Thase	02		7	J+	02.3		10			130.5	ΨΟ,ΤΟ
5 - Construction	on Phase											
	rvices during Construction Services During Construction										0	\$(
	TAL 5.1 - On-going Services during Construction	0	0	0	0	0	0	0	0	0	0	\$(
											0	\$0
	TOTAL - Construction Phase	0	0	0	0	0	0	0	0	0	0	\$(
	TOTAL AUTHORIZED PARTS	135	0	22	302	436.5	6	10	0	1	777.5	\$33,661
IF-AUTHORIZ	ED TASKS:											
2 - Preliminary	/ Engineering Phase											
2.7.B - Drainage												
2.7.B.E - BMP De		1			4	9					13	\$514
	TOTAL - Preliminary Engineering Phase	1	0	0	4	9	0	0	0	0	13	\$51

C-R-S	ERI-CR500-01.37		PR	OPOS	AL LA	BOR S	SUMMA	ARY				Version: Sept 2021
Consultant:	Mott MacDonald											
Agreement No.	TBD											
Modification No.												
PID No.	113957											
Proposal Date	1/14/2022											
•		No. of Units	Transportatio n Director	Project Principal	Project Manager/Sr. Roadway Engineer	Junior Roadway Engineer	Senior Traffic Engineer	Junior Traffic Engineer	Technician	Admin.	To	otal
Task Descriptio	n		\$90.50	\$72.25	\$58.75	\$31.00	\$63.25	\$38.25	\$43.00	\$35.50	Hours	Cost
3 - Stage 2 Det	ailed Design Phase											
3.1 - Environmental	Field Studies and Refined Impacts											
3.1.A - Phase I Cu	ultural Archaeological	1			1						1	\$59
3.3.B - Drainage												
3.3.B.E - BMP De		1			2	4.5					6.5	\$257
	TOTAL - Stage 2 Detailed Design Phase	2	0	0	3	4.5	0	0	0	0	7.5	\$316
4 - Final Engin	eering and R/W Phase											
4.2.D - Miscellaneou												
4.2.D C - Project S	Site Plan	1			6	12 12					18	\$725
	TOTAL - Final Engineering and R/W Phase	1	0	0	6	12	0	0	0	0	18	\$725
	TOTAL IF-AUTHORIZED PARTS	4	0	0	13	25.5	0	0	0	0	38.5	\$1,554
	GRAND TOTAL	139	0	22	315	462	6	10	0	1	816	\$35,215
											 	

2.2.C - Ecological Survey Report				MARY	•		Sept 2021
Modification No. 0	Agreement No. TBD State Average C						
Modification No.		Overhead Rate	156.68%				
Pip No. 11867							
No. of Average No. of Average No. of Average No. of Average No. of		1					
No. of Units Units No. of Units No. of Units							
Rate Nours Costs Costs Fee Cost	No. of Average			D : .			
AUTHORIZED TASKS: 2 - Preliminary Engineering Phase 2.1 - Develop Preliminary Alternatives 2.1 - A Prepare and Complete Feasibility Study Report 2.1 - A Prepare and Complete Feasibility Study Report TOTAL 2.1 - Develop Preliminary Alternatives 0		Labor Overnead	Cost of	Direct	Subcon	Net	I otal
2 - Preliminary Engineering Phase 2.1 - Develop Preliminary Alternatives 2.1 - A Prepare and Complete Feasibility Study Report 2.1 - A Prepare and Complete Feasibility Study Report 2.1 - A Prepare and Complete Feasibility Study Report 2.1 - A Prepare and Complete Feasibility Study Report 2.1 - A Prepare and Complete Feasibility Study Report 2.2 - B - Cultural Resources Scoping Request From 1	Task Description Hours	Costs Costs	Money	Costs	Costs	Fee	Cost
2.1 - Develop Preliminary Alternatives 2.1 - A. Prepare and Complete Feasibility Study Report 2.1 - A. Prepare and Complete Feasibility Study Report 2.1 - A. Prepare and Complete Feasibility Study Report 3.1 - A. Prepare and Complete Feasibility Study Report 4.1 - Develop Preliminary Alternatives 5.2 - Perform Environmental Field Studies 7.2 - Perform Environmenta	AUTHORIZED TASKS:						
2.1.A.G - Preiminary Alignment and Profile	2 - Preliminary Engineering Phase						
2.1.A.G Preliminary Alignment and Profile	·						
Color							
2.2.Perform Environmental Field Studies					-		\$0
2.2.B - Cultural Resources Scoping Request From	TOTAL 2.1 - Develop Preliminary Alternatives 0 0	\$0 \$0	\$0	\$0	\$0	\$0	\$0
2.2.B - Cultural Resources Scoping Request From	2.2. Parform Environmental Field Studios						
2.2.C - Ecological Survey Report		¢50 ¢05	¢0	0.0	¢1 501	¢17	\$1,752
2.2.D - Regulated Materials Review Streening Form TOTAL 2.2 - Perform Environmental Field Studies 3 \$55,75 1 \$59 \$50 \$0 \$9,4076 \$17 \$45 \$55,75 \$3 \$55,75 \$3 \$55,75 \$3 \$55,75 \$3 \$55,75 \$3 \$55,75 \$3 \$55,75 \$3 \$55,75 \$3 \$55,75 \$3 \$55,75 \$3 \$55,75 \$3 \$55,75 \$3 \$55,75 \$3 \$55,75 \$3 \$55,75 \$3 \$55,75 \$3 \$55,75 \$3 \$35,75 \$3							\$3,855
Company			50				\$4,247
2.3 A F Design 2.3 A - Field Survey and Aerial Mapping 2.3 A - Foreparty Owner Notification 1 \$46.42 18 \$836 \$1,357 \$1 \$55 \$24,207 \$236 \$26, 23.A G - Property Owner Notification 2.3 C - Drainage 2.3 C - Drainage 2.3 C - Conceptual BMP 1 \$45.88 6.5 \$298 \$484 \$1 \$0 \$0 \$0 \$0 \$80 \$80 \$80 \$80 \$80 \$80 \$80			\$0			*	\$9,853
2.3.C Property Owner Notification 0	2.3.A - Field Survey and Aerial Mapping 2.3.A.C - Base Mapping (incl. field verify.)	•					
2.3.C.E - Conceptual BMP							\$26,691
2.3.C.E - Conceptual BMP		\$0 \$0	\$0	\$21	\$0	\$0	\$21
TOTAL 2.3 - AER Design 2 \$46.28 24.5 \$1,134 \$1,841 \$2 \$76 \$24,207 \$320 \$27, 26.6 - Public Involvement/Coordination 1 #DIV/0! 0 \$0 \$0 \$0 \$0 \$0 \$0 \$. 1			
2.6 - Public Involvement/Coordination 1 #DIV/0! 0 \$0 <	· · · · · · · · · · · · · · · · · · ·						\$867
Company	2.6 - Public Involvement/Coordination					** *	\$27,580
2.7 - Stage 1 Design 2.7.A Roadway 2.7.A.A - Title Sheet 2.7.A.B - Schematic Plan 1 \$40.71 20 \$814 \$1,322 \$1 \$0 \$0 \$230 \$2 2.7.A.C - General Notes 1 \$37.94 4 \$152 \$246 \$0 \$0 \$0 \$0 \$230 \$2 2.7.A.C - General Notes 1 \$37.94 4 \$152 \$246 \$0 \$0 \$0 \$0 \$43 \$2 2.7.A.D - Typical Sections 2 \$38.77 25 \$969 \$1,574 \$2 \$0 \$0 \$0 \$274 \$2 2.7.A.E - Cross Sections 2 \$39.67 16 \$635 \$1,031 \$1 \$0 \$0 \$179 \$1 2.7.A.F - Plan and Profile - Mainline 6 \$41.97 144 \$6,044 \$9,812 \$10 \$0 \$0 \$1,706 \$17 2.7.A.J - Intersection Details 2 \$40.25 24 \$966 \$1,568 \$2 \$0 \$0 \$0 \$273 \$2 2.7.A.L - Driveway Details 4 \$40.54 32 \$1,297 \$2,106 \$2 \$0 \$0 \$366 \$3 2.7.A.N - Traffic Control 6 \$40.25 24 \$966 \$1,568 \$2 \$0 \$0 \$0 \$273 \$2 2.7.B Storm Sewer Profiles 2 \$39.54 13 \$514 \$835 \$1 \$0 \$0 \$0 \$145 \$1 2.7.B.D - Drainage Calculations 1 \$39.54 6.5 \$257 \$417 \$0 \$0 \$0 \$0 \$73 \$5							\$0
2.7.A Roadway 2.7.A.A - Title Sheet 1 \$37.94 8 \$304 \$493 \$1 \$0 \$0 \$86 \$ 2.7.A.B - Schematic Plan 1 \$40.71 20 \$814 \$1,322 \$1 \$0 \$0 \$230 \$2 2.7.A.C - General Notes 1 \$37.94 4 \$152 \$246 \$0 \$0 \$0 \$43 \$ 2.7.A.D - Typical Sections 2 \$38.77 25 \$969 \$1,574 \$2 \$0 \$0 \$274 \$2 2.7.A.E - Cross Sections 2 \$39.67 16 \$635 \$1,031 \$1 \$0 \$0 \$179 \$1 2.7.A.F - Plan and Profile - Mainline 6 \$41.97 144 \$6,044 \$9,812 \$10 \$0 \$0 \$17,06 \$17, 2.7.A.J - Intersection Details 2 \$40.25 24 \$966 \$1,568 \$2 \$0 \$0 \$273 \$2 2.7.A.I - Driveway Details 4 \$40.54 32 \$1,297 \$2,106 \$2 \$0 \$0 \$0 \$0<	TOTAL 2.6 - Public Involvement/Coordination 1 0	\$0 \$0	\$0	\$0	\$0	\$0	\$0
2.7.A Roadway 2.7.A.A - Title Sheet 1 \$37.94 8 \$304 \$493 \$1 \$0 \$0 \$86 \$ 2.7.A.B - Schematic Plan 1 \$40.71 20 \$814 \$1,322 \$1 \$0 \$0 \$230 \$2 2.7.A.C - General Notes 1 \$37.94 4 \$152 \$246 \$0 \$0 \$0 \$43 \$ 2.7.A.D - Typical Sections 2 \$38.77 25 \$969 \$1,574 \$2 \$0 \$0 \$274 \$2 2.7.A.E - Cross Sections 2 \$39.67 16 \$635 \$1,031 \$1 \$0 \$0 \$179 \$1 2.7.A.F - Plan and Profile - Mainline 6 \$41.97 144 \$6,044 \$9,812 \$10 \$0 \$0 \$17,06 \$17, 2.7.A.J - Intersection Details 2 \$40.25 24 \$966 \$1,568 \$2 \$0 \$0 \$273 \$2 2.7.A.I - Driveway Details 4 \$40.54 32 \$1,297 \$2,106 \$2 \$0 \$0 \$0 \$0<	2.7. Stage 1 Decign						
2.7.A.A - Title Sheet 1 \$37.94 8 \$304 \$493 \$1 \$0 \$0 \$86 \$ 2.7.A.B - Schematic Plan 1 \$40.71 20 \$814 \$1,322 \$1 \$0 \$0 \$230 \$2 2.7.A.C - General Notes 1 \$37.94 4 \$152 \$246 \$0 \$0 \$0 \$43 \$ 2.7.A.D - Typical Sections 2 \$38.77 25 \$969 \$1,574 \$2 \$0 \$0 \$43 \$ 2.7.A.E - Cross Sections 2 \$38.77 25 \$969 \$1,574 \$2 \$0 \$0 \$17 2.7.A.F - Plan and Profile - Mainline 6 \$41.97 144 \$6,044 \$9,812 \$10 \$0 \$0 \$17 2.7.A.J - Intersection Details 2 \$40.25 24 \$966 \$1,568 \$2 \$0 \$0 \$273 \$2 2.7.A.L - Driveway Details 4 \$40.54 32 \$1,297 \$2,106 \$2 \$0 \$0 \$366 \$3 2.7.B Trainage 2							
2.7.A.B Schematic Plan 1 \$40.71 20 \$814 \$1,322 \$1 \$0 \$0 \$230 \$2 2.7.A.C General Notes 1 \$37.94 4 \$152 \$246 \$0 \$0 \$0 \$43 \$3 2.7.A.D Typical Sections 2 \$38.77 25 \$969 \$1,574 \$2 \$0 \$0 \$274 \$2 2.7.A.E Cross Sections 2 \$39.67 16 \$635 \$1,031 \$1 \$0 \$0 \$179 \$1 2.7.A.F Plan and Profile - Mainline 6 \$41.97 144 \$6,044 \$9,812 \$10 \$0 \$0 \$1,706 \$17 2.7.A.J Intersection Details 2 \$40.25 24 \$966 \$1,568 \$2 \$0 \$0 \$273 \$2 2.7.A.I Driveway Details 4 \$40.54 32 \$1,297 \$2,106 \$2 \$0 \$0 \$366 \$3 2.7.B Traffic Control 6 \$40.25 24 \$966 \$1,568 \$2 \$0 \$0 \$0 \$2		\$204	64	# 0	en.	¢oo	\$882
2.7.A.C - General Notes 1 \$37.94 4 \$152 \$246 \$0 \$0 \$0 \$43 \$ 2.7.A.D - Typical Sections 2 \$38.77 25 \$969 \$1,574 \$2 \$0 \$0 \$274 \$2 2.7.A.E - Cross Sections 2 \$39.67 16 \$635 \$1,031 \$1 \$0 \$0 \$179 \$1 2.7.A.F - Plan and Profile - Mainline 6 \$41.97 144 \$6,044 \$9,812 \$10 \$0 \$0 \$1,706 \$17 2.7.A.J - Intersection Details 2 \$40.25 24 \$966 \$1,568 \$2 \$0 \$0 \$273 \$2 2.7.A.L - Driveway Details 4 \$40.54 32 \$1,297 \$2,106 \$2 \$0 \$0 \$366 \$3 2.7.B Traffic Control 6 \$40.25 24 \$966 \$1,568 \$2 \$0 \$0 \$366 \$3 2.7.B Drainage 2 \$39.54 13 \$514 \$835 \$1 \$0 \$0 \$0 2.7.B.D Grainag							\$882 \$2,368
2.7.A.D - Typical Sections 2 \$38.77 25 \$969 \$1,574 \$2 \$0 \$0 \$274 \$2 2.7.A.E - Cross Sections 2 \$39.67 16 \$635 \$1,031 \$1 \$0 \$0 \$179 \$1 2.7.A.F - Plan and Profile - Mainline 6 \$41.97 144 \$6,044 \$9,812 \$10 \$0 \$0 \$1,706 \$17 2.7.A.J - Intersection Details 2 \$40.25 24 \$966 \$1,568 \$2 \$0 \$0 \$273 \$2 2.7.A.L - Driveway Details 4 \$40.54 32 \$1,297 \$2,106 \$2 \$0 \$0 \$366 \$3 2.7.B Traffic Control 6 \$40.25 24 \$966 \$1,568 \$2 \$0 \$0 \$366 \$3 2.7.B Drainage 2 \$39.54 13 \$514 \$835 \$1 \$0 \$0 \$0 2.7.B.D - Drainage Calculations 0 #DIV/0! 0 \$0 \$0 \$0 \$0 \$0 2.7.B.D.3 - Storm Sewer 1 \$39.54 6.5 \$257 \$417 \$0 \$0 \$0 \$73 \$2	* * * * * * * * * * * * * * * * * * * *						\$2,366 \$441
2.7.A.E - Cross Sections 2 \$39.67 16 \$635 \$1,031 \$1 \$0 \$0 \$179 \$1 2.7.A.F - Plan and Profile - Mainline 6 \$41.97 144 \$6,044 \$9,812 \$10 \$0 \$0 \$1,706 \$17 2.7.A.J - Intersection Details 2 \$40.25 24 \$966 \$1,568 \$2 \$0 \$0 \$273 \$2 2.7.A.L - Driveway Details 4 \$40.54 32 \$1,297 \$2,106 \$2 \$0 \$0 \$366 \$3 2.7.A.N - Traffic Control 6 \$40.25 24 \$966 \$1,568 \$2 \$0 \$0 \$366 \$3 2.7.B Drainage 2 \$39.54 13 \$514 \$835 \$1 \$0 \$0 \$1 2.7.B.D Drainage Calculations 0 #DIV/0! 0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 2.7.B.D.3 - Storm Sewer 1 \$39.54 6.5 \$257 \$417 \$0 \$0 \$0 \$73 \$2							\$2,818
2.7.A.F Plan and Profile - Mainline 6 \$41.97 144 \$6,044 \$9,812 \$10 \$0 \$0 \$17,06 \$17,20 2.7.A.J Intersection Details 2 \$40.25 24 \$966 \$1,568 \$2 \$0 \$0 \$273 \$2,22 2.7.A.L Driveway Details 4 \$40.54 32 \$1,297 \$2,106 \$2 \$0 \$0 \$366 \$3,32 2.7.B Traffic Control 6 \$40.25 24 \$966 \$1,568 \$2 \$0 \$0 \$273 \$2,22 2.7.B Drainage 2 \$39.54 13 \$514 \$835 \$1 \$0 \$0 \$145 \$1,568 2.7.B. D - Drainage Calculations 0 #DIV/0! 0 \$0 \$0 \$0 \$0 \$0 \$0 2.7.B.D.3 - Storm Sewer 1 \$39.54 6.5 \$257 \$417 \$0 \$0 \$0 \$73 \$2							\$1,846
2.7.A.L - Driveway Details 4 \$40.54 32 \$1,297 \$2,106 \$2 \$0 \$0 \$366 \$3,27.A.N Traffic Control 6 \$40.25 24 \$966 \$1,568 \$2 \$0 \$0 \$273 \$2,27.B.D.D.D.D.D.D.D.D.D.D.D.D.D.D.D.D.D.D.	2.7.A.F - Plan and Profile - Mainline 6 \$41.97 144					\$1,706	\$17,572
2.7.A.N - Traffic Control 6 \$40.25 24 \$966 \$1,568 \$2 \$0 \$0 \$273 \$2,27.B.D.D.D.D.D.D.D.D.D.D.D.D.D.D.D.D.D.D.							\$2,809
2.7.B Drainage 2.7.B.A - Storm Sewer Profiles 2 \$39.54 13 \$514 \$835 \$1 \$0 \$0 \$145 \$1 2.7.B.D - Drainage Calculations 0 #DIV/0! 0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 2.7.B.D.3 - Storm Sewer 1 \$39.54 6.5 \$257 \$417 \$0 \$0 \$73 \$3							\$3,772
2.7.B.A - Storm Sewer Profiles 2 \$39.54 13 \$514 \$835 \$1 \$0 \$0 \$145 \$1 2.7.B.D - Drainage Calculations 0 #DIV/0! 0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 2.7.B.D.3 - Storm Sewer 1 \$39.54 6.5 \$257 \$417 \$0 \$0 \$0 \$73 \$3		\$966 \$1,568	\$2	\$0	\$0	\$273	\$2,809
2.7.B.D - Drainage Calculations 0 #DIV/0! 0 \$0 \$0 \$0 \$0 \$0 \$0 2.7.B.D.3 - Storm Sewer 1 \$39.54 6.5 \$257 \$417 \$0 \$0 \$0 \$73 \$3							
2.7.B.D.3 - Storm Sewer 1 \$39.54 6.5 \$257 \$417 \$0 \$0 \$0 \$73 \$			•				\$1,495
							\$0
∠./.ʁ.੮ - ʁwɪr uesign							\$747
2.7.C - Utilities		\$0 \$0	\$0	\$0	\$0	\$0	\$0

C-R-S	ERI-CR500-01.37			PROP	OSAL	COS	T SUN	/MAR	Υ		version: Sept 2021
Consultant:	Mott MacDonald										
Agreement No.	TBD			State Average	e Overhead F	Rate	156.68%				
Modification No.	0				Overhead Rate		162.36%				
PID No.	113957			Cost of Mon		·.	0.17%				
					•						
Proposal Date	1/14/2022			Net Fee Pero	entage:		11%				
		No. of Units	Average Hourly Rate	Total	Labor	Overhead	Cost of	Direct	Subcon	Net	Total
Task Descriptio	n		Nate	Hours	Costs	Costs	Money	Costs	Costs	Fee	Cost
2.7.C.A - Utility Co	pordination and Documentation	1	\$58.75		\$470	\$763	\$1	\$0	\$0	\$133	\$1,367
2.7.D - Geotechnica								,			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
	nnical Services and Report	1	\$58.75	4	\$235	\$382	\$0	\$0	\$12,908	\$66	\$13,591
2.7.G - Miscellaneo				1	1			1			
requirements	Pavement Build up and subsurface drainage	0	#DIV/0!	0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2.7.H - Prepare C2	Cost Estimates and Update Milestones			·							
	y/Interchange Costs	1	\$41.97	24	\$1,007	\$1,635	\$2	\$0	\$0	\$284	\$2,929
2.7.J - Maintenance				,			,		ı		
2.7.J.A - Detour P		1	\$41.41		\$331	\$538	\$1	\$0	\$0	\$94	\$963
	TOTAL - 2.7 - Stage 1 Design	32	\$41.50	360.5	\$14,961	\$24,290	\$25	\$0	\$12,908	\$4,224	\$56,409
2.8 - Project Manage	ement for Preliminary Engineering Phase										
2.8.A - Meetings		1	\$58.75	6	\$353	\$572	\$1	\$0	\$0	\$100	\$1,025
2.8.B - General Ove	ersight	1	\$60.20	28	\$1,686	\$2,737	\$3	\$199	\$0	\$476	\$5,100
	TOTAL 2.8 - Project Management for Preliminary Engineering Phase		\$59.94		\$2 ,038	\$3,309	\$3	\$199	\$0	\$575	\$6,125
	Total - 2 Preliminary Engineering Phase	38		422	\$18,309	\$29,726	\$31	\$275	\$46,456	\$5,169	\$99,966
3 - Stage 2 Det	ciled Decian										
3.3 - Stage2 3.3.A - Roadway											
•			007.04	1	0.5 0	0040	00	4 0	00	0.40	0.444
3.3.A.A - Title She		1	\$37.94		\$152	\$246	\$0	\$0	\$0	\$43	\$441
3.3.A.B - Schema 3.3.A.C - General		3	\$37.94 \$41.41		\$152 \$004	\$246 \$1,613	\$0 \$2	\$0 \$0	\$0 \$0	\$43 \$281	\$441
3.3.A.C - General		2	\$41.41 \$43.45		\$994 \$435	\$1,613 \$705	\$2 \$1	\$0 \$0	\$0 \$0	\$281 \$123	\$2,889 \$1,263
	d Profile - Mainline	6								\$573	
			\$42.25		\$2,028	\$3,293	\$3 04	\$0 \$0	\$0 \$0	\$573 \$94	\$5,897
3.3.A.H - Cross S 3.3.A.I - Intersecti		2	\$41.41 \$40.25		\$331 \$966	\$538 \$1,568	\$1 \$2	\$0 \$0	\$0 \$0	\$94 \$273	\$963 \$2,809
3.3.B - Drainage	on Botalio	2	φ+0.20	24	φθθθ	ψ1,300	Φ2	φυ	ΦΟ	Ψ213	Ψ2,009
3.3.B.A - Storm S	ewer Profiles	1	\$39.54	6.5	\$257	\$417	\$0	\$0	\$0	\$73	\$747
3.3.B.D - Underdr		1	\$39.54		\$257	\$417	\$0	\$0	\$0	\$73	\$747
3.3.B.E - BMP De	tails	0	#DIV/0!	0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
3.3.C - Traffic Cont				,			,				
3.3.C.A - Paveme		6	\$37.94		\$911	\$1,478	\$2	\$0	\$0	\$257	\$2,647
3.3.C.B - Signing		0	#DIV/0!	0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
3.3.E - Maintenance			0.40.55		00.1-	0	ا. م		6-1	A	# 4.000
3.3.E.A - MOT Ge		2	\$43.09		\$345 \$450	\$560 \$346	\$1 ©0	\$0 \$0	\$0 \$0	\$97	\$1,002
3.3.E.E - MOT Ty 3.3.E.F - MOT Pla		0	\$37.94 #DIV/0!	0	\$152 \$0	\$246 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$43 \$0	\$441 \$0
3.3.J - Utilities		U	#DIV/U!	ı U	\$0	20	\$0	\$0	Φ0	\$ 0	\$0
	ordination and Documentation	1	\$58.75	8	\$470	\$763	\$1	\$0	\$0	\$133	\$1,367
,		1	, ,,,,,,,,,		Ţ U	Ţ. 00	Ŧ.	70	+ -		

C-R-S	ERI-CR500-01.37			PROP	OSAL	COS	r sur	MMAR	Υ		version: Sept 2021
Consultant:	Mott MacDonald										
Agreement No.	TBD			State Average	ge Overhead I	Rate	156.68%				
Modification No.	0			Consultant (Overhead Rat	e:	162.36%				
PID No.	113957			Cost of Mon	ey:		0.17%				
Proposal Date	1/14/2022			Net Fee Perd	centage:		11%				
		No. of Units	Average Hourly Rate	Total	Labor	Overhead	Cost of	Direct	Subcon	Net	Total
Task Description	n en			Hours	Costs	Costs	Money	Costs	Costs	Fee	Cost
Tubit Descriptio	TOTAL 3.3 - Stage2	29							\$0	\$2,121	
	101AL 3.3 - 3tagez	29		180	\$7,511	\$12,195	\$13	\$0	\$0	\$2,121	\$21,840
3.5 - Prepare Enviro	onmental Document										
	vironmental Document	1	\$58.75	1	\$59	\$95	\$0	\$0	\$3,574	\$17	\$3,745
	TOTAL 3.5 - Prepare Environmental Document	. 1	,,,,	1	\$59		\$0	\$0	\$3,574	\$17	\$3,745
									,		72,. 10
3.6 - Environmental	Commitments and Plan Notes										
	tal Commitment Plan Notes	1	\$31.00				\$0			\$18	\$180
TO	TAL 3.6 - Environmental Commitments and Plan Notes	1		2	\$62	\$101	\$0	\$0	\$0	\$18	\$180
•	Estimates and Revise Milestone		# D D //OI			00			00	00	
3.8.A - Roadway/In	FAL 3.8 - Prepare Cost Estimates and Revise Milestone	0	#DIV/0!	0			\$0	\$0 \$0		\$0 \$0	\$0 \$0
3.9 - Project Manage	ement for Environmental Engineering Phase	н	#DIV/0!		\$0	\$0	\$0	30	Ψ0	φυ	φ0
3.9.A - Meetings		0	#DIV/0!	0	\$0		\$0	\$0		\$0	\$0
3.9.B - General Ove	<u> </u>	1	\$60.44	16	\$967	\$1,570	\$2	\$124	\$2,061	\$273	\$4,997
	TOTAL 3.9 - Project Management for	1									
	Environmental Engineering Phase	•	\$60.44		\$967	\$1,570	\$2	\$124	\$2,061	\$273	\$4,997
	Total - 3 Stage 2 Detailed Design Phase	32		199	\$8,599	\$13,961	\$15	\$124	\$5,635	\$2,428	\$30,762
4 - Final Engin	eering and R/W Phase										
4.2 - Stage 3 Detaile	ed Design Plans			'							
4.2.A - Quantities a											-
4.2.A.A - Paveme		1	\$40.25			\$784	\$1	\$0		\$136	\$1,404
4.2.A.B - Drainage		<u>1</u>	\$41.41	8		\$538	\$1	\$0		\$94	\$963
4.2.A.C - Roadwa	ance of Traffic Subsummary	1	\$40.25 \$40.25			\$588 \$196	\$1 \$0	\$0 \$0		\$102 \$34	\$1,053 \$351
	nt Marking Subsummary	1	\$40.25 \$48.01	17	\$816	\$1,325	\$0 \$1	\$0	\$0 \$0	\$34 \$230	\$2,373
4.2.A.M - General		2	\$41.40		\$1,490		\$3	\$0		\$230 \$421	\$4,333
4.2.A.P - General	•	3	\$40.25			\$784	\$1	\$0	\$0	\$136	\$1,404
	y Subsummary or Driveway Details (if included on same		ψ.σ. <u>Σ</u> ο	12	ψ 100	ψ. 04	Ψι	ΨΟ	40	Ψ100	ψ.,-το-
sheet)	,	1	\$40.79	8.5	\$347	\$563	\$1	\$0	\$0	\$98	\$1,008
4.2.D - Miscellaneo	us			,		7.20	<u> </u>				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
4.2.D.F - Miscella		4	\$37.94	16	\$607	\$986	\$1	\$0	\$0	\$171	\$1,76
	TOTAL 4.2 - Stage 3 Detailed Design Plans	15		121.5	\$5,041	\$8,184	\$9	\$0	\$0	\$1,423	\$14,656
4.3 - Prepare Cost E	Estimates and Revise Milestone										
4.3.A - Roadway/In	· ·	1	\$43.45	10	\$435	\$705	\$1	\$0	\$0	\$123	\$1,263
TO1	ΓAL 4.3 - Prepare Cost Estimates and Revise Milestone	1		10	\$435	\$705	\$1	\$0	\$0	\$123	\$1,26

C-R-S	ERI-CR500-01.37			PROP	OSAL	COS	T SUN	MAR	Υ		Version: Sept 2021
Consultant:	Mott MacDonald										
Agreement No.	TBD			State Average	e Overhead F	Rate	156.68%				
Modification No.	0			Consultant O	verhead Rate	e:	162.36%				
PID No.	113957			Cost of Mone	y:		0.17%				
Proposal Date	1/14/2022			Net Fee Perce	entage:		11%				
Task Descriptic	on .	No. of Units	Average Hourly Rate	Total	Labor	Overhead Costs	Cost of	Direct	Subcon	Net Fee	Total
•											
4.4 - Final Plan Pac		4.4	\$42.32	141	¢400	¢750	64	640	¢ol	¢404	£4.200
4.4.A - SUDMISSION	of Final Tracings and Documentation 4.4 - Final Plan Package	44		11	\$466 \$466	\$756 \$756	\$1 \$1	\$12 \$12	\$0 \$0	\$131 \$131	\$1,366 \$1.366
	4.4 - Filiai Fiali Fackage	44		11	\$466	\$756	\$1	\$12	\$0	\$131	\$1,366
4.5 - Project Manag	ement for Final Engineering and Right of Way Phase										
4.5.A - Meetings		1	\$58.75	6	\$353	\$572	\$1	\$0	\$0	\$100	\$1,025
4.5.B - General Ov		1	\$57.53	8	\$460	\$747	\$1	\$124	\$0	\$130	\$1,462
TOTAL 4.5 - Projec	ct Management for Final Engineering and Right of Way Phase			14	\$813	\$1,320	\$1	\$124	\$0	\$229	\$2,487
4.6 - Pre-Bid Activit	ies										
4.6.A - Pre-Bid Que		0	#DIV/0!	0	\$0	\$0		\$0	\$0	\$0	\$
4.7 - Limited Review		0		0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
4.7.A - QA/QC for I	Limited Review 4.7 - Limited Review	0	#DIV/0!	0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$(\$(
					,	•	, ,			, ,	•
	TOTAL - Final Engineering Phase	62		156.5	\$6,753	\$10,965	\$11	\$136	\$0	\$1,907	\$19,772
5 - Construction	on Phase										
	rvices during Construction										
5.1.A - On-going	Services During Construction	0	#DIV/0!	0	\$0			\$0	\$0	\$0	\$0
	TOTAL 5.1 - On-going Services during Construction	0		0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	TOTAL - Construction Phase	0		0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	TOTAL AUTHORIZED PARTS	132		777.5	\$33,661	\$54,652	\$57	\$535	\$52,091	\$9,504	\$150,500
IF-AUTHORIZE	D TASKS:										
2 - Preliminary	/ Engineering Phase										
2.7.B - Drainage											
2.7.B.E - BMP De		1	\$39.54		\$514	\$835		\$0	\$0	\$145	\$1,49
	TOTAL - Preliminary Engineering Phase	1		13	\$514	\$835	\$1	\$0	\$0	\$145	\$1,49

C-R-S	ERI-CR500-01.37			PROP	OSAL	COS	T SUN	/MAR	Υ		Version: Sept 2021
Consultant:	Mott MacDonald										
Agreement No.	TBD			State Average	Overhead F	Rate	156.68%				
Modification No.	0			Consultant O	verhead Rate	e:	162.36%				
PID No.	113957			Cost of Mone	y:		0.17%				
Proposal Date	1/14/2022			Net Fee Perc	entage:		11%				
		No. of Units	Average Hourly Rate	Total	Labor	Overhead	Cost of	Direct	Subcon	Net	Total
Task Descriptio	on		Kate	Hours	Costs	Costs	Money	Costs	Costs	Fee	Cost
3 - Stage 2 Det	tailed Design Phase										
3.1 - Environmenta	I Field Studies and Refined Impacts										
3.1.A - Phase I Co	ultural Archaeological	1	\$58.75	1	\$59	\$95	\$0	\$0	\$11,244	\$17	\$11,415
3.3.B - Drainage											
3.3.B.E - BMP De		1	\$39.54		\$257	\$417	\$0	\$0	\$0	\$73	\$747
	TOTAL - Stage 2 Detailed Design Phase	2		7.5	\$316	\$513	\$1	\$0	\$11,244	\$89	\$12,162
4 - Final Engin	eering and R/W Phase										
4.2.D - Miscellaneo	us										
4.2.D C - Project	Site Plan	_1 _	\$40.25		\$725			\$0	\$0	\$205	\$2,107
	TOTAL - Final Engineering and R/W Phase	1		18	\$725	\$1,176	\$1	\$0	\$0	\$205	\$2,107
	TOTAL IF-AUTHORIZED PARTS	4		38.5	\$1,554	\$2,523	\$3	\$0	\$11,244	\$439	\$15,763
	GRAND TOTAL	136		816	\$35,215	\$57,175	\$60	\$535	\$63,335	\$9,943	\$166,264

C-R-S	ERI-CR500-01.37			D	IRE	CT C	OST	S			Version: Sept 2021
Consultant:	Mott MacDonald										
Agreement No.	TBD										
Modification No.	0										
PID No.	113957			es	S		e e				
Proposal Date	1/14/2022	2		op	op _i		kac			6	
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Task Description	Unit Cost:	\$1.00	\$1.00	\$0.09	\$0.27	\$0.52	\$12.00	\$0.55			
AUTHORIZED T	ASKS:										
2 - Preliminary	/ Engineering Phase										
2.1 - Develop Prelin	•										
	Complete Feasibility Study Report			ı			1				
2.1.A.G - Prelimir	nary Alignment and Profile										\$0.00
	TOTAL 2.1 - Develop Preliminary Alternatives	0	0	0	0	0	0	0	0	0	\$0.00
22 - Perform Enviro	onmental Field Studies										
	sources Scoping Request From									1	\$0.00
2.2.C - Ecological S											\$0.00
	Materials Review Screening Form								VV		\$0.00
	TOTAL 2.2 - Perform Environmental Field Studies	0	0	0	0	0	0	O	0	0	\$0.00
	y and Aerial Mapping apping (incl. field verify.)	Ŀ						1			
2.3.A.C.1 - No F						106					\$55.12
2.3.A.G - Propert	y Owner Notification							38			\$20.90
2.3.C - Drainage											
2.3.C.E - Concep	tual BMP										\$0.00
	TOTAL 2.3 - AER Design	0	0	0	0	106	0	38	0	0	\$76.02
2.6 - Public Involve			,								
2.6.A - Public Involve										_	\$0.00
	TOTAL 2.6 - Public Involvement/Coordination	0	0	0	0	0	0	0	0	0	\$0.00
2.7 - Stage 1 Design	1										-
2.7.A - Roadway											
2.7.A.A - Title Sh	eet									I	\$0.00
2.7.A.B - Schema											\$0.00
2.7.A.C - Genera											\$0.00
2.7.A.D - Typical										1	\$0.00
2.7.A.E - Cross S									-	1	\$0.00
2.7.A.F - Plan and 2.7.A.J - Intersec	d Profile - Mainline								-	+	\$0.00
2.7.A.L - Drivewa										 	\$0.00 \$0.00
2.7.A.N - Traffic (1	\$0.00
2.7.B - Drainage				1		-	1	·	-	1	φ3.00
2.7.B.A - Storm S	Sewer Profiles										\$0.00
2.7.B.D - Drainag											\$0.00
2.7.B.D.3 - Storm											\$0.00
2.7.B.E - BMP De											\$0.00
2.7.C - Utilities											

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Consultant:	Mott MacDonald										
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Modification No.	0										
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Task Description	Unit Cost:	\$1.00	\$1.00	\$0.09	\$0.27	\$0.52	\$12.00	\$0.55			
	oordination and Documentation	Ψ1.00	ψ1.00	Ψ0.00	ψ0.21	ψ0.02	Ψ12.00	ψ0.00			\$0.00
2.7.D - Geotechnic				Į.					Į.		
2.7.D.A - Geotech	nnical Services and Report										\$0.00
2.7.G - Miscellaneo			_								
	Pavement Build up and subsurface drainage										
requirements											\$0.0
	Cost Estimates and Update Milestones			1					1		00.5
2.7.H.A - Roadwa 2.7.J - Maintenance	ay/Interchange Costs	l	1	1	ļ	l	L	L	1	1	\$0.00
2.7.J - Maintenance				1					1		\$0.0
2.7.0.7 DCtour 1	TOTAL - 2.7 - Stage 1 Design	0	0	0	0	0	0	0	0	0	\$0.0
	101/12 211 Oldge 1 2001g.										ψο.οι
2.8 - Project Manag	ement for Preliminary Engineering Phase							A .			
2.8.A - Meetings											\$0.0
2.8.B - General Ov	ersight	175				_	2				\$199.00
	TOTAL 2.8 - Project Management for										
	Preliminary Engineering Phase	1 <mark>75</mark>	0	0	0	0	2	0	0	0	\$199.00
		455				100					00== 0
	Total - 2 Preliminary Engineering Phase	175	0	0	0	106	2	38	0	0	\$275.02
3 - Stage 2 De	tailed Design										
3.3 - Stage2											
3.3.A - Roadway											
3.3.A.A - Title Sh	eet		1	1			1	1	1	1	\$0.00
3.3.A.B - Schema											\$0.00
3.3.A.C - General											\$0.00
3.3.A.D - Typical											\$0.0
	d Profile - Mainline										\$0.0
3.3.A.H - Cross S	ections										\$0.0
3.3.A.I - Intersect	ion Details										\$0.0
3.3.B - Drainage											
3.3.B.A - Storm S	Sewer Profiles										\$0.00
3.3.B.D - Underdi											\$0.00
3.3.B.E - BMP De											\$0.00
3.3.C - Traffic Cont		1		T		1			T	1	1
3.3.C.A - Paveme							-	-			\$0.00
3.3.C.B - Signing 3.3.E - Maintenanc											\$0.0
3.3.E.A - MOT G							I	1			\$0.0
3.3.E.E - MOT Ty							 	 	-		\$0.0
3.3.E.F - MOT Pla								†			\$0.0
3.3.J - Utilities			1	1			-	-	1	1	ψ3.0
3.3.J.A - Utility Co	pordination and Documentation										\$0.0

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Consultant:	Mott MacDonald										
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Task Description	Unit Cost:	\$1.00	\$1.00	\$0.09	\$0.27	\$0.52	\$12.00	\$0.55			
Task Description	TOTAL 3.3 - Stage2	0	0	0	0		0	0	0	0	60.0
	TOTAL 3.5 - Stage2	U	1	l	0	0	U	l	l	U	\$0.00
	nmental Document										
3.5.A - Prepare Env	vironmental Document										\$0.0
	TOTAL 3.5 - Prepare Environmental Document	0	0	0	0	0	0	0	0	0	\$0.00
3.6 - Environmental	Commitments and Plan Notes										
	tal Commitment Plan Notes										\$0.00
TOTAL :	3.6 - Environmental Commitments and Plan Notes	0	0	0	0	0	0	0	0	0	\$0.0
3.8 - Prepare Cost E 3.8.A - Roadway/Ini	stimates and Revise Milestone		1	ı	1	I	ĺ	ı	1		\$0.0
	.8 - Prepare Cost Estimates and Revise Milestone	0	0			0	0	0		0	\$0.00
IOTALS	.o - Prepare Cost Estimates and Revise Wilestone	U				4		U		U	\$0.00
	territoria de la constanta de	-									
3.9 - Project Manage	ement for Environmental Engineering Phase										
3.9.A - Meetings											\$0.0
3.9.B - General Ove	ersight	100					2				\$124.0
	TOTAL 3.9 - Project Management for										
	Environmental Engineering Phase	100	0	0	0	0	2	0	0	0	\$124.0
	Total - 3 Stage 2 Detailed Design Phase	100	0	0	0	0	2	0	0	0	\$124.00
4 - Final Engin	eering and R/W Phase										
4.0. Ota 0 Dataila	4 Danier Dlane										
4.2 - Stage 3 Detaile	d Design Plans										
4.2.A - Quantities a	nd Notes				1						
4.2.A.A - Paveme	nt Subsummary										\$0.0
4.2.A.B - Drainage	e Subsummary										\$0.00
4.2.A.C - Roadwa		-									\$0.0
	ance of Traffic Subsummary										\$0.0
	nt Marking Subsummary										\$0.0
4.2.A.M - General	,				1					1	\$0.0
4.2.A.P - General											\$0.0
	y Subsummary or Driveway Details (if included on										# 0.0
same sheet) 4.2.D - Miscellaneo	nie –			<u> </u>				<u> </u>	<u> </u>		\$0.0
4.2.D - Miscellaneo 4.2.D.F - Miscella											\$0.0
4.2.D.1 - WIISCEIIA	TOTAL 4.2 - Stage 3 Detailed Design Plans	0	0	0	0	0	0	0	0	0	\$0.0
	. O I The The Orange o Detailed Design I land		0	0	0	0		- 0	0	0	Ψ0.0
4.3 - Prepare Cost E	stimates and Revise Milestone										
4.3.A - Roadway/In											\$0.0
TOTAL 4	.3 - Prepare Cost Estimates and Revise Milestone	0	0	0	0	0	0	0	0	0	\$0.00

C-R-S	ERI-CR500-01.37			D	IRE	CT C	OST	S			Version: Sept 2021
Consultant:	Mott MacDonald										
Agreement No.	TBD										
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Task Description	Unit Cost:	\$1.00	\$1.00	\$0.09	\$0.27	\$0.52	\$12.00	\$0.55			
4.4 - Final Plan Paci	rage of Final Tracings and Documentation						1				\$12.00
4.4.A - Submission	4.4 - Final Plan Package	0	0	0	0	0	1	0	0	0	\$12.00
4.5 - Project Manage	ement for Final Engineering and Right of Way										
Phase											
4.5.A - Meetings											\$0.00
4.5.B - General Ove		100					2				\$124.00
TOTAL 4.5 - Projec	t Management for Final Engineering and Right of										
	Way Phase	100	0	0	0	0	2	0	0	0	\$124.00
4.6 - Pre-Bid Activiti	es										
4.6.A - Pre-Bid Que											\$0.00
	TOTAL 4.6 - Pre-Bid Activities	0	0	0	0	0	0	0	0	0	\$0.00
4.7 - Limited Review	$-\Delta$	-			_						
4.7.A - QA/QC for L		_							1	T T	\$0.00
1.7.7	4.7 - Limited Review	0	0	0	0	0	0	0	0	0	\$0.00
	TOTAL - Final Engineering Phase	100	0	0	0	0	3	0	0	0	\$136.00
5 - Construction	on Phase										
	vices during Construction										
	Services During Construction										\$0.00
тот	AL 5.1 - On-going Services during Construction	0	0	0	0	0	0	0	0	0	\$0.00
	TOTAL - Construction Phase	0	0	0	0	0	0	0	0	0	\$0.00
	TOTAL AUTHORIZED PARTS	375	0	0	0	106	7	38	0	0	\$535
IF-AUTHORIZEI	TASKS:										
2 - Preliminary	Engineering Phase										
2.7.B - Drainage											
2.7.B.E - BMP De	sign										\$0.00
	TOTAL - Preliminary Engineering Phase	0	0	0	0	0	0	0	0	0	\$0.00

C-R-S	ERI-CR500-01.37			D	IRE	CT C	OST	S			Version: Sept 2021
Consultant:	Mott MacDonald										
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Task Description	Unit Cost:	\$1.00	\$1.00	\$0.09	\$0.27	\$0.52	\$12.00	\$0.55			
	Field Studies and Refined Impacts										\$0.0
3.3.B - Drainage	ultural Archaeological										\$0.0
3.3.B.E - BMP De	taile			ı	ı	ı				1	\$0.0
3.3.B.L - BIVII De	TOTAL - Stage 2 Detailed Design Phase	0	0	0	0	0	0	0	0	0	\$0.00
4 - Final Engin	eering and R/W Phase										
4.2.D - Miscellaneo											
4.2.D - Miscellaneo	Cita Dian		_					Ц			\$0.0
4.2.D 0 1 10jcct	TOTAL - Final Engineering and R/W Phase	0	0	0	0	0	0	0	0	0	\$0.0
									7 7		
	TOTAL IF-AUTHORIZED PARTS	0	0	0	0	0	0	0	0	0	\$0
				_							T.
		J									
	GRAND TOTAL	375	0	0	0	106	7	38	0	0	\$538
	+			-	-	-				-	

Appendix B

Subconsultants Proposals

EXHIBIT "A"

Engineering Services Agreement

Engineer:	Client:
K.E. McCartney & Associates, Inc.	Mott MacDonald
52 N. Diamond St.	18013 Cleveland Parkway Drive, Suite 200
Mansfield, Ohio 44902	Cleveland, Ohio 44135
Project No.	Date:
PR-1203	January 14, 2022
Project Name:	Location:
ERI-CR0500-1.37; PID 113957	Sandusky, Ohio

Scope of Services:

Field survey:

- Establish horizontal and vertical control points and locate the existing roadway right of way of way, determining and plotting the existing roadway center lines
- Full drainage, sanitary and combination sewer survey (including pipe size, type, invert and casting elevation, flow direction, sketches, photos, etc.)
- Topography
- Call to OUPS to request plans and field markings. Surveying of OUPS delineated utility locations and other utility features in full topo areas
- Planimetric features including existing loop detectors, trees, signs, and geotechnical borings.

Survey Limits:

-Survey of the following ADA deficient or missing curb ramps on West Monroe Street only:

- -The intersections of Jay, Mills, Putnam, Harrison, Pearl, Camp, Clinton, Pear, and Broadway
- Entire intersection of West Monroe with Tiffin and Camp extending 100' past the radius return on Tiffin and Camp (400 L.F.)
- -Park at the corner of Monroe/Mills/Tiffin for use as a potential location of a future detention pond (0.4 Ac.)
- Survey half of the road pavement or treelawn depending on the alignment selected by Client for future storm sewer to determine future casting elevations. Survey will be done later in 2022.

Deliverables:

Survey base map shall be generated by KEM in AutoCAD version 2016 or later, DTM will be furnished electronically in LandXML format. Scale shall be 1"=20' and contours shall be every 1'. Other deliverables include all survey point information including control points and benchmarks, photos, field book and any other information generated during field work.

Schedule:

Weather permitting, KEM will provide all deliverables within 45 calendar days of Notice to Proceed.

Fee Arrangement:	Billed on an H	Billed on an Hourly Rate basis not to exceed: \$24,207.00										
KEM 2022 Hourly Rates:												
Department Manager	\$167.00/HR	Sr Engineering Tech	\$ 95.00/HR	Add. Survey Crew Member	\$ 61.00/HR							
Senior Project Manager	\$138.00/HR	Engineering Tech	\$ 76.00/HR	Administrative Assistant	\$ 72.00/HR							
Project Manager	\$120.00/HR	Project Inspector	\$ 89.00/HR	Field Technician	\$ 73.00/HR							
Project Engineer	\$107.00/HR	Survey w/Robotics	\$122.00/HR	CCTV Inspection	\$232.00/HR							
Drone Services	\$109.00/HR	Survey with 3d Scanner	\$200.00/HR	Vac Truck	\$232.00/HR							

Special Conditions:

- 1. Additional services include any not listed in the Scope of Services and will be billed at standard hourly rates following approval of the Client.
- 2. Site assessments including archaeological, environmental, ecological and wetland, or other such; and site investigations such as soil borings, or other such; are the responsibility of the Client. The Client shall provide KEM with any such assessments, delineations, or investigations that may impact project design.
- 3. Utilities marked by OUPS member companies will be surveyed pursuant to FHWA SUE QL-C. Engineer will make up to two (2) requests for locates to OUPS for utility owners to be notified.
- 4. No subsurface utility engineering (SUE) work is included.
- 5. Standard hourly rates may be adjusted annually as of 2023 to reflect current cost associated with inflation and overhead expenses.

Mott Macdonald PID 113957	ERI-CR500-01.37	

	ESTIMATE BY HOURS															
		Category	Department Manager	Senior Proj. Manager	Proj. Manager	Proj. Eng.	Sr. Tech.	Tech.	Field Tech.	Survey Crew	Survey w/ 3D Scanner	Miles	KEM	Sub and/or Equip	SUBTOTAL	PHASE TOTALS
1	Surveying															\$24,207.00
1.01	Field Work		1	4				4	20	75	10	900	\$14,101.00		\$14,101.00	
1.02	Base Map		2	24			20	60					\$10,106.00		\$10,106.00	
		•		-	•			•	•	•			•		•	
		Hours Subtotal	3	28	0	0	20	64	20	75	10	900				
		2022 Hourly Rate	\$167.00	\$138.00	\$120.00	\$107.00	\$95.00	\$76.00	\$73.00	\$122.00	\$200.00	\$0.52				
		Design Budget Subtotal	\$501.00	\$3,864.00	\$-	\$-	\$1,900.00	\$4,864.00	\$1,460.00	\$9,150.00	\$2,000.00	\$468.00	\$24,207.00	\$-		

EXHIBIT "A"

TOTAL DESIGN BUDGET

\$24,207.00



Columbus Cleveland Dayton Cincinnati

December 29, 2021

Chris Preto, PE, ENV SP, LEED AP BD+C Mott MacDonald 18013 Cleveland Parkway Drive Suite 200 Cleveland, OH 44135

RE: ERI-CR0500-1.37 (W Monroe St) PID No. 113957

Environmental Scope Sandusky, Erie County, Ohio

Dear Mr. Preto:

Lawhon & Associates, Inc. is pleased to submit our proposal for the West Monroe Street improvement project. The proposed project includes storm sewer improvements, roadway reconstruction and roadway resurfacing along West Monroe Street, between Broadway St. and Camp Street in Sandusky, Erie County, Ohio. There will be no new right of way acquired. Our fee estimate is based upon correspondence with you on December 17th and December 28th. Our fee assumes Mott MacDonald will send out the property owner notification letters. A review of National Wetland Inventory map shows no ecological resources in the project area, we assume there will be no impacts and waterway permitting will not be required. Our proposed tasks include:

Level 1 Ecological Survey Report – Lawhon will complete a Level 1 Ecological Survey Report. The report will delineate wetlands if present, and any impacts will be calculated based upon Stage 1 design. The survey will utilize ODOT's most recent guidance manual and will be uploaded to EnviroNet for review and coordination.

Section 106 Scoping Request- Lawhon will complete a Section 106 Scoping Request Form per ODOT's most recent guidance manual. The form will be uploaded to ODOT's EnviroNet system for review and coordination

Regulated Materials Review (RMR)- The RMR Screening is the most recent ODOT equivalent to the Environmental Site Assessment (ESA) Screening. Lawhon will complete the RMR Screening following ODOT's current guidance manual; form will be uploaded to EnviroNet for review.

C2 Environmental Document- The project will be processed as a Level 2 Categorical Exclusion (C2). The CE will include all necessary documentation of required studies and will include Environmental Justice mapping, and public involvement documentation. This fee does not include standalone studies. CE will be completed and submitted through ODOT's EnviroNet system.

General Oversight- This task includes project setup, client updates, scheduling, invoices and client communication through project completion.

If Authorized

Phase I Cultural Resource History/Architecture Survey- Two NRHP properties were identified within the project footprint, one of which has been demolished. Some of the Ohio Historic Inventory (OHIs) in the area have had "NR District Potential" checked on their forms so the research on the area would need to account for whether a historic district existed in the area. This task involves preparation of a Phase I Cultural Resources Survey for the footprint of the preferred alternative. If it is required, the scope of effort will be determined by ODOT as part of the review of the Section 106 Scoping Request Form. The fee estimate provided is based upon the anticipated project footprint and is a medium level in the ODOT Consultant Fee Guidance.

Fees were created using the ODOT Consultant Fee Guidance plus travel time when appropriate. All studies will follow the most recent OES guidance manuals and will be uploaded to EnviroNet for review and coordination.

Enclosed is the fee estimate for this effort. Please let me know if you have any questions.

Respectfully,

Jessica Stratigakos

Susan S. Daniels, PE,

Sr. Project Manager Director of NEPA Planning

1441 King Avenue | Columbus, Ohio 43212 | P: 614.481.8600 | F: 614.481.8610 | www.lawhon-assoc.com

Proposal Cost Summary

C/R/S: ERI-CR0500-1.37 (W Monroe St)

Phase I Cultural Resource History/Architecture Survey

PID: **113957**

Total with if Authorized Tasks

					Overhead Po					
CONSULTANT:	Lawhon & Associates, Inc.				Net Fee Per				158.08% 11.00%	
					Cost of mon	еу			0.62%	
DATE:	12/29/2021	Avg.	Total	Labor	Overhead	Cost of	Direct	Sub	Net	Total
Task - Description		Rate	Hours	Costs	Costs	Money	Costs	Cons.	Fee	Cost
Level 1 Ecological S	Survey Report	\$32.70	40	\$1,308	\$1,877	\$8	\$120	\$0	\$371	\$3,684
Section 106 Scoping	g Request	\$32.22	18	\$580	\$832	\$4	\$0	\$0	\$165	\$1,581
Regulated Materials	Review (RMR)	\$34.00	44	\$1,496	\$2,146	\$9	\$0	\$0	\$425	\$4,076
C2 Environmental D	Occument	\$41.00	32	\$1,312	\$1,882	\$8	\$0	\$0	\$372	\$3,574
General Oversight		\$47.25	16	\$756	\$1,085	\$5	\$0	\$0	\$215	\$2,061
Total Authorized Ta	sks	\$36.35	150	\$5,452	\$7,822	\$34	\$120	\$0	\$1,548	\$14,976
If Authorized										

110

260

\$3,940

\$9,392

\$5,653

\$13,475

\$24

\$58

\$508

\$628

\$0

\$1,119

\$2,667

\$11,244

\$26,220

\$47.25

\$36.12

Proposed Labor Rates and Hours

C/R/S: ERI-CR0500-1.37 (W Monroe St)

PID: 113957
Task Order: 0
Agreement Number: 0

				Category	<u>Rate</u>	<u>Category</u>	<u>Rate</u>			
CONSULTANT:	Lawhon & Associates, Inc.			PR	\$70.00	Eng1	\$28.00			
				ES4	\$44.00	ES1	\$20.00			
DATE:	12/29/2021	н	ΙF	ES3 ES2	\$36.00 \$28.00	ES1-OT GIS/Admi	\$30.00 \$30.00			
				Labo	or Hours b	y Category			Total	Labor
Task		PR	ES4	ES3	ES2	Eng1 ES1	ES1-OT	GIS/Admin	Hours	Costs
Level 1 Ecological S	urvey Report	0	6	10	18	0 0	0	6	40	\$1,308
Section 106 Scoping	ı Request	0	4	0	8	0 0	0	6	18	\$580
Regulated Materials	Review (RMR)	0	6	20	14	0 0	0	4	44	\$1,496
C2 Environmental D	ocument	0	20	12	0	0 0	0	0	32	\$1,312
General Oversight		2	14	0	0	0 0	0	0	16	\$756
Total Authorized Tas	sks	2	50	42	40	0 0	0	16	150	\$5,452
If Authorized										
Phase I Cultural Res	source History/Architecture Survey	0	32	42	30	0 0	0	6	110	\$3,940
al with if Authorized 1	Tasks	0	32	42	30	0 0	0	6	110	\$9,392

Non-Labor Direct Cost Summary

C/R/S : **ERI-CR0500-1.37 (W Monroe St)**

PID: **113957**

Task Order: **0**Agreement Number: **0**

CONSULTANT: Lawhon & Associates, Inc.

DATE: **12/29/2021**

EXHIBIT "A"

Task	miles	mileage	copies	field			other	Direct
		0.52/mile	& postage	supplies	per diem	hotel		Costs
Level 1 Ecological Survey Report	230	\$120	\$0	\$0	\$0	\$0	\$0	\$120
Section 106 Scoping Request	0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Regulated Materials Review (RMR)	0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
C2 Environmental Document	0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
General Oversight	0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total Authorized Tasks	230	\$120	\$0	\$0	\$0	\$0	\$0	\$120
If Authorized								
Phase I Cultural Resource History/Architecture Survey	220	\$114	\$0	\$0	\$192	\$202	\$0	\$508
Total with if Authorized Tasks	450	\$234	\$0	\$0	\$0	\$0	\$0	\$628

CTL Engineering, Inc.

3085 Interstate Parkway, Brunswick, OH 44212 Phone: 330-220-8900 Fax: 330-220-8944

e-mail: ctlcle@ctleng.com

AN EMPLOYEE OWNED COMPANY



Consulting Engineer – Testing – Inspection Services – Analytical Laboratories

Established 1927

December 30, 2021

Mott MacDonald 18013 Cleveland Parkway Drive Suite 200 Cleveland, Ohio 44135

Attention: Mr. Chris Preto, PE, ENV SP, LEED AP BD+C

Principal Project Manager/Senior Associate

Reference: Proposal for Geotechnical Engineering Services

ERI-CR0500-1.37 (W Monroe St) PID No. 113957

Sandusky, Erie County, Ohio

CTL Proposal No. 22050001CLE-PPL

Mr. Preto:

In response to your request, CTL Engineering, Inc. is pleased to submit this proposal for Geotechnical Engineering Services for the above referenced project. CTL will perform the subsurface investigation in accordance with your email request dated December 17, 2021 and ODOT Specifications for Geotechnical Exploration (SGE) with the exception of deliverable. Our report will not include soil profile, soil summary data, and design stage reviews/comments.

PROJECT DESCRIPTION AND SCOPE OF WORK

The project consists of a storm sewer upgrades, roadway reconstruction and roadway resurfacing along West Monroe Street, between Broadway St. and Camp Street in Sandusky, Erie County, Ohio. We anticipate that the storm sewer will not be deeper than 6 to 8 feet below existing grades.

CTL plans to advance eight (8) soil borings at 10 feet deep below existing grades. CTL will obtain split spoon samples at 2.5-foot intervals in upper 10 feet. Borings will be advanced to the designated depths or sample refusal whichever occurs first. Our budget includes up to 5 feet of rock core at one of the proposed borings. The bore holes will be backfilled with auger cutting/cement mix. Laboratory testing will consist of visual-manual classification and moisture content of all samples, Atterberg Limits, Grain Size Analysis, and Sulfate Testing.

PROCEDURES

CTL services will include the following items:

- A. Coordinate access with designated personnel.
- B. CTL will mark the soil borings in the field, Mott MacDonald or their representative will survey the borings and provide CTL with Stations, Offsets, elevation and Coordinates (Latitude/Longitude).



- C. CTL will contact Ohio Utility Protection Services (OUPS) to locate underground utilities. Borings, which are in the area of utilities will be offset and noted on the site plan.
- D. Drill the test borings near proposed areas and provide traffic control including flaggers.
- E. Field and laboratory testing in accordance with ASTM/ODOT specifications.
- F. Boring Location Plan.
- G. Engineering evaluation and reporting to include:
 - 1. General description of the site
 - 2. Boring logs and profile to include:
 - (a) Surface elevation at each test boring location.
 - (b) Thickness of pavement, topsoil and subsoil strata.
 - (c) Groundwater encountered during drilling, and at completion.
 - (d) Standard penetration and moisture content as a function of depth.
 - 3. Existing subsurface conditions.
 - 4. Groundwater/drainage management recommendations.
 - 5. Subgrade analysis and recommendations for pavement support.
 - 6. Recommendations for utility excavation, support, and backfill.

COST ESTIMATE

The cost estimate will be in accordance with the attached rates. Based on the expected amount of work/scope, our budget is \$12,908.00.

CONTINGENCIES

This proposal is valid for 90 days. If unforeseen conditions were encountered, the client will be notified to determine if additional work is required. In addition, this information is proprietary and confidential and CTL assumes no responsibility or liability for the reliance hereon or use hereof by anyone other than Mott MacDonald and his or her Representatives.

Additional Services if needed and authorized will be invoices at the provided rates:

SCHEDULE

CTL can start the drilling within 7 to 10 working days of authorization and complete the field-testing within 9 to 10 working days pending on weather conditions. The geotechnical report will be available within 25 to 30 working days of authorization to proceed.



CLOSING

CTL is committed to provide comprehensive and quality services to its clients, and is confident that our services are commensurate with your professional expectations. CTL will assign the following staff to this project:

We sincerely appreciate the opportunity to provide this cost proposal and look forward to working with you. Should you have any questions, please feel free to contact me at (330) 220-8900.

Respectfully submitted,

CTL ENGINEERING, INC.

H. Matthew Kairouz, P.E.

Project Engineer

Enclosure:

- Fee Schedule. - Proposed Boring Location Plan.





OHIO DEPARTMENT OF TRANSPORTATION OFFICE OF GEOTECHNICAL ENGINEERING

PROPOSAL for the GEOTECHNICAL EXPLORATION



PID # 113957

W. Monroe St. Resurfacing & Utility Upgrades

CTL Engineering, Inc.

Prepared By: Matthew Kairouz

Date prepared: December 30, 2021

Matthew Kairouz 3085 Interstate Parkway Brunswick, Ohio 44212

(330) 220-8900

mkairouz@ctleng.com

GEOTECHNICAL EXPLO	DRATION PROPOSAL			COST SUN	MARY							
C/R/S:	ERI-CR0500-1.37						Overhead Pe	ercentage =			166.35%	
PID NO.:	PID # 113957						ODOT State	wide Percenta	age for Net Fe	e =	158.08%	
CONSULTANT:	CTL Engineering, Inc	c .					Net Fee Perd	centage =			11.00%	
DATE:	December 30, 2021					Cost of Mone	ey =			1.17%		
	Task		Hourly Rate	Total Hours	Direct Labor Costs	Overhead Costs	Cost of Money	Other Direct Costs	Subcon. Costs	Net Fee	Total Cost	Percent of Total Cost
RECONNAISSANCE AND PLA Office Reconnaissance Field Reconnaissance Exploration Plan	ANNING		\$49.00 \$22.00 \$62.00	1 6 1	\$49 \$132 \$62	\$82 \$220 \$103	\$1 \$2 \$1	\$65	\$0	\$14 \$37 \$18	\$146 \$391 \$249	
		Subtotal	\$30.38 Avg. Rate	. 8	\$243	\$405	\$4	\$65	\$0	\$69	\$786	6%
FIELD COORDINATION Field Coordination Logging (if drilling is subcontr	racted)	- X	\$20.15 \$0.00	26 0	\$524 \$0	\$872 \$0	\$6 \$0	\$310 \$0		\$149 \$0	\$1,861 \$0	14% 0%
		Subtotal	\$20.15 Avg. Rate	26	\$524	\$872	\$6	\$310		\$149	\$1,861	
FIELD EXPLORATION		Subtotal							\$0		\$3,735	29%
LABORATORY TESTING		Subtotal							\$0		\$4,288	33%
GEOTECHNICAL EXPLORATI Subgrade and Roadway Bridge Other Structures (describe) Geohazard (describe) Stage 2 Plan Review Final Plan Review	ON REPORT		\$29.08 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	26 0 0 0 0	\$756 \$0 \$0 \$0 \$0 \$0	\$1,258 \$0 \$0 \$0 \$0 \$0	\$9 \$0 \$0 \$0 \$0 \$0	\$0	\$0 \$0 \$0 \$0 \$0 \$0	\$215 \$0 \$0 \$0 \$0 \$0	\$2,238 \$0 \$0 \$0 \$0 \$0	
		Subtotal	\$29.08 Avg. Rate	26	\$756	\$1,258	\$9	\$0	\$0	\$215	\$2,238	17%
GRAND TOTAL ALL PARTS		Total	\$25.38 Avg. Rate	60	\$1,523	\$2,535	\$19	\$375	\$0	\$433	\$12,908	Cost per foot \$152

GEOTECHNICAL EXPLORATION PROPOSAL C/R/S: ERI-CR0500-1.37 PID NO.: PID # 113957 CONSULTANT: CTL Engineering, Inc. DATE: December 30, 2021

Personnel Category **Salary Rate** Manager, P.E. \$61.50 Project Engineer, P.E. \$49.00 Staff Engineer \$31.00 CADD Technician \$22.00 Field Supervisor \$22.00 Technician \$20.00 Geologist \$22.00 Secretary \$18.50

HOURLY RATES

HOURS BY PERSONNEL CATEGORY

			Project	Staff	CADD	Field				Total	Labor
Task		Manager	Engineer	Engineer	Technician	Supervisor	Technician	Geologist	Secretary	Hours	Costs
RECONNAISSANCE AND PLANNING											
Office Reconnaissance		0	1	0	0	0	0	0	0	1	\$49
Field Reconnaissance		0	0	0	0	0	0	6	0	6	\$132
Exploration Plan		1	0	0	0	0	0	0	0	1	\$62
	Subtotal	1	1	0	0	0	0	6	0	8	\$243
FIELD COORDINATION											
Field Coordination		0	0	0	0	2	24	0	0	26	\$524
Logging (if drilling is subcontracted)		0	0	0	0	0	0	0	0	0	\$0
	Subtotal	0	0	0	0	2	24	0	0	26	\$524
GEOTECHNICAL EXPLORATION REPORT											
Subgrade and Roadway		0	2	16	0	0	0	4	4	26	\$756
Bridge		0	0	0	0	0	0	0	0	0	\$0
Other Structures (describe)		0	0	0	0	0	0	0	0	0	\$0
Geohazard (describe)		0	0	0	0	0	0	0	0	0	\$0
Stage 2 Plan Review		0	0	0	0	0	0	0	0	0	\$0
Final Plan Review		0	0	0	0	0	0	0	0	0	\$0
	Subtotal	0	2	16	0	0	0	4	4	26	\$756
LABOR TOTAL ALL PARTS	Total	4	3	16	0	2	24	10	4	60	\$1,523

GEOTECHNICAL EXPLORATION PROPOSAL FIELD EXPLORATION C/R/S: ERI-CR0500-1.37 PID NO.: PID # 113957 CONSULTANT: CTL Engineering, Inc. DATE: December 30, 2021 Task Unit Unit Cost Quantity Cost Task Description 1 lump Mobilization/Demobilization Getting the necessary equipment and personnel to and from the project site. Includes crew avel time and mileage to and from the site, at the start and upon completion. Subtotal \$550 Traffic Maintenance Describe each traffic control set-up, as referenced in the Ohio Manual of Uniform Traffic Typical Application No. TA-21 Control Devices, by the Typical Application No. Includes all flaggers, law enforcement, per-\$150.00 \$300 diem, mileage, and equipment and personnel to set-up, maintain, and tear down traffic control Typical Application No. \$0 days Railroad Traffic Control \$0 days Subtotal \$300 Subsurface Exploration Includes all necessary equipment, materials, and personnel to move equipment and crew between borings, set-up, drill, sample, supply water, perform visual descriptions of rock samples, prepare field logs, backfill borehole, and contain, preserve and transport samples. All drilling footage measured from the ground surface or the bottom of the body of water, as applicable. Hand Sampling Includes all equipment and personnel to excavate, sample, log and backfill each hand lethod Description ampling method \$0 feet Method Description feet \$0 Test Pits \$0 Includes all equipment and personnel to excavate, sample, log and backfill test pit each Pavement/Bridge Deck Coring ncludes all equipment, personnel, and material to core and patch pavement/bridge deck and Core Diameter in. either handle or dispose of core. \$0 each Core Diameter in. \$0 each Truck/ATV/Trailer Mounted Rotary Drilling Includes all methods of rotary drilling on land, except skid rig Number of Drill Rig Days 2 days 40 ft/day Total Soil Footage (ft) 80 Total Rock Footage (ft) 3 ft/day No Sampling \$0 5-ft SPT feet \$21.0 \$0 2.5-ft SPT 80 feet \$1.840 \$23.00 Continuous SPT feet \$33.0 \$0 servation, transport, and extraction, minimum 50% recovery Jndisturbed Samples \$110.0 each feet \$325 \$720 Permanent Borehole Sealing 80 feet \$9.00 Skid Drilling Number of Drill Rig Days days Total Soil Footage (ft) 0 ft/day Total Rock Footage (ft) 0 0 ft/day \$0 No Sampling feet 5-ft SPT \$0 feet .5-ft SPT feet Continuous SPT feet \$0 Undisturbed Samples each \$0 Includes press, preservation, transport, and extraction, minimum 50% recovery \$0 Rock Corina feet ermanent Borehole Sealing feet Barge Drilling Number of Drill Rig Days days 0 ft/dav Total Soil Footage (ft) otal Rock Footage (ft) 0 ft/day 5-ft SPT 2.5-ft SPT feet \$0 Continuous SPT feet \$1 \$0 Undisturbed Samples Includes press, preservation, transport, and extraction, minimum 50% recovery each Rock Coring feet Permanent Borehole Sealing feet \$0 includes all costs associated with barge drilling access (permits, spuds, safety equipment, boats, tugs, etc.) CPT, DCP, Geophysical, etc. Propose a daily rate to include all costs associated with days \$(Other Exploratory Methods performing the described exploratory method. days Method Description days In-situ Testing Includes all mobilization/demobilization, equipment, material, labor, travel, per diem, alibration, and data reduction days \$0 \$0 days Installation/Reading of Geotechnical Instruments Excludes cost of drilling - present above. Includes all material and labor for installation Open Standpipe Piezometer \$0 \$0 Monitoring Well feet Inclinometer feet \$0 Misc (describe) neumatic or vibrating wire piezometers, strain gages, extensometers, TDR cable, etc. each \$0 Instrument Readings trips \$0 Includes all equipment, material, labor, travel, per diem, calibration, and data reduction \$2,885 Subtotal Direct Costs Drill Crew Meals and Lodging \$0 \$0 Subtotal \$0 FIELD EXPLORATION TOTAL ALL PARTS \$3,735 Total

GEOTECHN	IICAL EXPLORATION PROPOSAL	LABORATORY TESTING										
C/R/S:	ERI-CR0500-1.37											
PID NO.:	PID # 113957											
CONSULTANT	: CTL Engineering, Inc.											
DATE:	December 30, 2021											
		Test M	lethod									
	Test	AASHTO	ASTM	Quantity	Unit	Unit Cost	Cost	Remarks				
Soil Testing	T											
	Complete Classification	Multiple	Multiple		each	\$173		Includes Visual Description per SGE Section 602, T265, T88, T89, T90				
	Water Content Test and Visual Description	T265	D2216		each	\$14		Visual Description per SGE Section 602				
	Particle Size Analysis - Sieve Only	T88	D422		each	\$72		As modified per SGE Section 603.3				
	Particle Size Analysis - Sieve and 2-hour Hydrometer	T88	D422		each	\$99		As modified per SGE Section 603.3				
	Liquid Limit Test	T89	D4318		each	\$44		As modified per SGE Section 603.3				
	Plastic Limit Test	T90	D4318	-	each	\$41		As modified per SGE Section 603.3				
	Organic Content by Loss on Ignition	T267	D2974		each	\$54	\$0					
	Soil Unconfined Compression Test	T208	D2166		each	\$86	\$0					
	Unconsolidated-Undrained Triaxial Compression Test	T296	D2850	0	1 point	\$191	\$0					
	Consolidated-Undrained Triaxial Compression Test (with pore pressure measurement)	T297	D4767	0	3 points	\$1,004	\$0					
	One-Dimensional Consolidation Test	T216	D2435	0	each	\$575	\$0					
	Specific Gravity Test	T1 <u>00</u>	D854	0	ea <u>ch</u>	\$69	_\$0_					
	Direct Shear Test	T236	D3080	0	3 points	\$552	\$0	/ / 				
	Sulfate Content in Soils, Colorimetric Method	ODOT \$1122	NA	8	each	\$107	\$856					
	Misc. (identify test)			0			\$0	Identify the test and test method for any tests not listed above				
	Misc. (identify test)			0			\$0	Identify the test and test method for any tests not listed above				
					Subtotal		\$4,288					
Rock Testing												
Rock resting	Unconfined Compressive Strength of Intact Rock Core		D7012,									
	Specimen Specimen	NA	Method C	0	each	\$104	\$0					
	Slake Durability of Shales and Similar Weak Rocks	NA	D4644	0	each	\$240	\$0					
	Determination of the Point Load Strength Index of Rock	NA	D5731	0	each	\$69	\$0					
	Elastic Moduli of Intact Rock Core Specimens in Uniaxial		D7012,									
	Compression	NA	Method D	0	each	\$278	\$0					
	Misc. (identify test)			0			\$0	Identify the test and test method for any tests not listed above				
	Misc. (identify test)			0			\$0	Identify the test and test method for any tests not listed above				
	Misc. (identify test)			0			\$0	Identify the test and test method for any tests not listed above				
		•										
					Subtotal		\$0					
LABORATORY	Y TESTING TOTAL ALL PARTS				Total		\$4,288					

GEOTECHNICAL EXPLORATION PROPOSAL DIRECT COSTS C/R/S: ERI-CR0500-1.37 PID NO.: PID # 113957 CONSULTANT: CTL Engineering, Inc. December 30, 2021 DATE: Task Quantity Unit **Unit Cost** Cost RECONNAISSANCE AND PLANNING Mileage 125 \$0.52 \$65.00 \$0.00 (describe) 0 \$0.00 0 (describe) \$0.00 \$0.00 Subtotal \$65.00 FIELD COORDINATION **Field Coordination** Rock Core Setup each \$115.00 \$115.00 Mileage 375 mile \$0.52 \$195.00 **Permits** \$0.00 \$0.00 0 each Dozer and Operator (site access and restoration) 0 hour \$0.00 \$0.00 Site Restoration (not including Dozer) 0 site \$0.00 \$0.00 Railroad Permits \$0.00 0 each \$0.00 Other (describe) \$0.00 \$0.00 0 Other (describe) 0 \$0.00 \$0.00 Subtotal \$310.00 Logging (If drilling is subcontracted) Meals and Lodging \$0.00 \$0.00 Mileage 0 mile \$0.52 \$0.00 0 Other (describe) \$0.00 \$0.00 Subtotal \$0.00 Subtotal \$310.00 GEOTECHNICAL EXPLORATION REPORT (describe) 0 \$0.00 \$0.00 (describe) 0 \$0.00 \$0.00 Subtotal \$0.00 \$375.00 DIRECT COSTS TOTAL ALL PARTS Total

