

RESOLUTION NO. 75-24
CITY OF CENTERVILLE, OHIO

12th SPONSORED BY COUNCILMEMBER Belinda Kenley ON THE
DAY OF August, 2024.

**A RESOLUTION AUTHORIZING THE CITY MANAGER
TO ENTER INTO A SERVICE AGREEMENT WITH TEC
ENGINEERING, INC. FOR IMPROVEMENTS TO CLYO
ROAD FOR THE DIMCO WAY PROJECTS.**

WHEREAS, the City of Centerville intends to design the widening of Clyo Road, a hiker-biker path on Clyo Road, storm sewer, and curb improvements to Clyo Road, and improvement for the overall intersection at Dimco Way and Clyo Road (the "Project"); and

WHEREAS, the City was previously awarded grant funds from the Federal Congestion Mitigation and Air Quality (CMAQ) for the Project; and

WHEREAS, the Project requires professional design, engineering and construction services; and

WHEREAS, TEC Engineering, Inc. has those qualifications to provide those services for the Project and has demonstrated ability to assist in accomplishing the objectives of the City; and

WHEREAS, has unique knowledge of such work and has the demonstrated ability to assist in accomplishing the objectives of the City.

**NOW, THEREFORE, BE IT RESOLVED BY THE COUNCIL OF
THE CITY OF CENTERVILLE, MONTGOMERY COUNTY, OHIO, AS
FOLLOWS:**

Section 1. The City Council hereby agrees to enter into a Services Agreement with TEC Engineering, Inc. for the Project; and hereby authorizes the City Manager to execute the Service Agreement attached hereto as Exhibit "A" and incorporated herein on behalf of the City of Centerville.


Section 2. This Resolution shall be in full force and effect at the earliest date allowed by law.

PASSED THIS 12th day of August, 2024.



Mayor of the City of Centerville, Ohio

ATTEST:



Clerk of Council
City of Centerville, Ohio

CERTIFICATE

The undersigned, Clerk of Council of the City of Centerville, Ohio, hereby certifies the foregoing to be a true and correct copy of Resolution No. 75-24, passed by the Council of the City of Centerville, Ohio on the 12th day of August, 2024.



Clerk of the Council

Approved as to form, consistency
with existing ordinances, the
charter & constitutional provisions
Department of Law
Scott A. Liberman
Municipal Attorney

SERVICE AGREEMENT

THIS AGREEMENT is made and entered into at Centerville, Ohio, on the date(s) set forth at the end hereof, by and between the **City of Centerville, OHIO**, an Ohio municipal corporation, 100 West Spring Valley Road, hereinafter referred to as the "City," and TEC Engineering, Inc., an Ohio corporation of Dayton, Ohio hereinafter referred to as the "Consultant" or "Contractor." In consideration of the mutual promises and covenants contained herein, the parties hereto agree as follows:

WITNESSETH:

WHEREAS, the City and the Consultant mutually desire to contract with each other to perform the services for this project, which include the Scope of Work attached hereto and hereinafter referred to as Exhibit "A"; and

WHEREAS, the Consultant is uniquely qualified, experienced and willing to perform said Work, when there is an Agreement specifying the rights and duties of each party; and

WHEREAS, the City and the Consultant mutually desire to perform the obligation embodied in Exhibit "A."

NOW, THEREFORE, for and in consideration of the mutual promises, covenants and agreements hereinafter set forth, the parties to this Agreement, with intent to be legally bound, agree as follows:

ARTICLE ONE: SCOPE OF WORK

The Consultant agrees to perform the services embodied in the Scope of Work attached hereto and hereinafter referred to as "Exhibit A." Said Exhibit A is incorporated by reference as written hereinafter in full.

ARTICLE TWO: SCHEDULE OF PAYMENTS

To compensate the Consultant for services rendered in accordance with the terms embodied in the Compensation for Professional Services attached hereto and hereinafter referred to as "Exhibit A," the City agrees to pay the Consultant an amount not to exceed \$799,674. Said Exhibit "A" is incorporated by reference as if written hereinafter in full.

ARTICLE THREE: TERM

The Term of this Agreement shall be from date of last execution by all parties, the date upon which the Agreement is authorized and awarding this Agreement, whichever event occurs last, and shall terminate on December 31, 2028 (the "Term"). The parties agree that any additional periods for which the Work is undertaken shall be subject to competitive bidding and that this Agreement in no way may be extended beyond the Term.

ARTICLE FOUR: CONFLICT OF INTEREST

This Agreement in no way precludes, prevents, or restricts the Consultant from obtaining and working under an additional contractual arrangement(s) with other parties aside from the City, assuming that such other contractual work in no way impedes the Consultant's ability to

perform the services required under this Agreement. The Consultant hereby represents warrants and agrees that at the time of entering into this Agreement, it has no interest in nor shall it acquire any interest, direct or indirect, in any agreement which will impede its ability to perform the required services under this Agreement.

ARTICLE FIVE: ASSIGNMENTS

The parties expressly agree that this Agreement shall not be assigned by the Consultant without the prior written approval of the City, which approval may be withheld in the sole discretion of the City.

ARTICLE SIX: GOVERNING LAW

This Agreement and any modifications, amendments, or alterations, shall be governed, construed, and enforced under the laws of the State of Ohio.

ARTICLE SEVEN: INTEGRATION AND MODIFICATION

This instrument embodies the entire agreement of the parties. There are no promises, terms, conditions or obligations other than those contained herein; and this Agreement shall supersede all previous communications, representations or agreements, either written or oral, between the parties to this Agreement. Also, this Agreement shall not be modified in any manner except by an instrument, in writing, executed by the parties to this Agreement.

ARTICLE EIGHT: SEVERABILITY

If any term or provision of this Agreement or the application thereof to any entity, person or circumstance shall, to any extent be held invalid or unenforceable, the remainder of this Agreement, or the application of such term or provision to entities, persons or circumstances other than those as to which it is held invalid or unenforceable, shall not be affected thereby and each remaining term and provision of this Agreement shall be valid and enforceable to the fullest extent permitted by law.

ARTICLE NINE: TERMINATION

This Agreement may be terminated by either party only upon notice, in writing, upon the other party no later than at least sixty (60) days in advance of the effective date of the termination. The City may also terminate this Agreement in the event that the City is of the opinion that the Consultant is carrying out the terms of this Agreement in an unreasonable, unprofessional, or unworkmanlike manner. Said termination for this particular reason shall occur upon the provision of a written notice of termination to the Consultant at least thirty (30) calendar days in advance of the date of the proposed termination, stating in the termination notice the reason for said termination. The City, in its sole discretion, may allow the Consultant to cure the reason for the termination provided the cure of the reason is accomplished within thirty (30) days of the date of the forwarding of the termination notice. The parties further agree that should the Consultant become unable for any reason to complete the work called for by virtue of this Agreement, that to the extent applicable, such work as the Consultant has completed upon the date of its inability to continue the terms of this Agreement shall become

the property of the City, and further the City shall not be liable to tender and/or pay to the Consultant any further compensation after the date of the Consultant's inability to complete the terms hereof, which date shall be the date of termination unless extended by the City. Notwithstanding the above, the Consultant shall not be relieved of liability to the City for damages sustained by the City by virtue of any breach of the Agreement by the Consultant; and the City may withhold any compensation to the Consultant for the purpose of set-off until such time as the amount of damages due the City from the Consultant is agreed upon or otherwise determined. Additionally, the parties further agree that should the Consultant become unable for any reason to complete the work called for by virtue of this Agreement, the City may, in its sole discretion, call the performance bond due, in full, if any, as and for such non-performance, and/or as liquidated damages.

ARTICLE TEN: COMPLIANCE

The Consultant, at its sole cost, agrees to comply with all applicable federal, state, and local laws in the conduct of work hereunder. The Consultant accepts full responsibility for payment of all unemployment compensation insurance premiums, worker's compensation premiums, benefits as mandated by the Patient Protection and Affordable Care Act (PPACA), all income tax deductions, pension deductions, prevailing wages, if applicable, and any and all other taxes or payroll deductions required for the Consultant and all employees engaged by the Consultant for the performance of the work authorized by this Agreement. The costs of any health insurance benefits required by the PPACA shall be the responsibility of the Consultant and shall not be billed directly to the City. The Consultant shall comply with the requirements of the

PPACA and any and all associated costs and/or penalties. It shall be the responsibility of the Consultant to report, track and determine employee hours that are eligible to be offered insurance benefits.

ARTICLE ELEVEN: PERFORMANCE AND DISCIPLINE

Unless otherwise provided in this Agreement or the exhibits attached hereto, the Consultant shall provide and pay for, to the extent applicable, all labor, materials, equipment, tools, construction equipment and machinery, transportation, and other facilities and services necessary for proper execution and completion of the Work, whether temporary or permanent and whether or not incorporated or to be incorporated in the Work. The Consultant shall enforce strict discipline and good order among the Consultant's employees and other persons carrying out this Agreement. The Consultant shall not permit employment of persons not skilled in tasks assigned to them. The Consultant shall perform all Work in a reasonable, professional and workmanlike manner and all Work shall be of at least the quality provided for in this Agreement.

ARTICLE TWELVE: DAMAGE AND LOSS

The Consultant shall promptly remedy damage and loss (other than damage or loss insured under property insurance required elsewhere in this Agreement) to property referred to in this Section caused in whole or in part by the Consultant, a subcontractor of any tier, or anyone directly or indirectly employed by any of them, or by anyone for whose acts they may be liable and for which the Consultant is responsible under this Article except damage or loss attributable to acts or omissions of the City or anyone directly or indirectly employed by either of them, or by

anyone for whose acts either of them may be liable, and not attributable to the fault or negligence of the Consultant. The foregoing obligations of the Consultant are in addition to the Consultant's other obligations hereunder. In an emergency affecting safety of persons or property, the Consultant shall act, at the Consultant's discretion, to prevent threatened damage, injury or loss. The Consultant shall notify the City or a security arm of the City as soon as possible after such emergency arises.

ARTICLE THIRTEEN: WORKER'S COMPENSATION INSURANCE

The Consultant shall take out and maintain during the life of this Agreement Workers' Compensation Insurance for its employees and shall furnish a certificate of Workers' Compensation Insurance for its employees before the execution of this Agreement. No contract between the City and the Consultant shall be created hereby or otherwise exist until a fully executed copy thereof has been served upon the City.

ARTICLE FOURTEEN: NON-DISCRIMINATION

During the performance of this Agreement, the Consultant will not discriminate against any employee or applicant for employment because of race, color, religion, sex, sexual preference, national origin, ancestry, handicap, age, political belief or place of birth. The Consultant will ensure that applicants are employed and that employees are treated during employment without regard to race, color, religion, sex, sexual preference, national origin, ancestry, handicap, age, political belief or place of birth. Such action shall include, but is not limited to, the following: employment, upgrading, demotion or transfer; recruitment or

recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship.

The Consultant, or any person claiming through the Consultant, agree not to establish or knowingly permit any such practice or practices of discrimination or segregation in reference to anything relating to this Agreement, or in reference to any Consultants or subcontractors of said Consultant.

ARTICLE FIFTEEN: INDEMNIFICATION

Consultant shall indemnify, hold harmless and, not excluding the City's right to participate, defend the City, its officers, officials, agents, and employees (hereinafter referred to as "Indemnitee") from and against all liabilities, claims, actions, damages, losses, and expenses including without limitation reasonable attorneys' fees and costs, (hereinafter referred to collectively as "claims") for bodily injury or personal injury including death, or loss or damage to tangible or intangible property caused, or alleged to be caused, in whole or in part, by the negligent or willful acts or omissions of Consultant or any of its owners, officers, directors, agents, employees, or subcontractors. This indemnity includes any claim or amount arising out of or recovered under the Workers' Compensation Law or arising out of the failure of such to conform to any federal, state, or local law, statute, ordinance, rule, regulation, or court decree. It is the specific intention of the parties that the Indemnitee shall, in all instances, except for claims arising solely from the negligent or willful acts or omissions of the Indemnitee, be indemnified by Consultant from and against any and all claims. It is agreed that Consultant will be responsible for primary loss investigation, defense, and judgment costs where this indemnification is

applicable. In consideration of the award of this contract, the Consultant agrees to waive all rights of subrogation against the City, its officers, officials, agents, and employees for losses arising from the work performed by the Consultant for the City.

ARTICLE SIXTEEN: RELATIONSHIP

Nothing in this Agreement is intended to, or shall be deemed to, constitute a partnership, association or joint venture with the Consultant in the conduct of the provisions of this Agreement. The Consultant shall at all times have the status of an independent Consultant without the right or authority to impose tort, contractual or any other liability on the City.

ARTICLE SEVENTEEN: DISCLOSURE

The Consultant hereby covenants that it has complied with the City's disclosure policy which requires anyone contracting with the City to disclose to the City any business relationship or financial interest that said Consultant has with an employee of the City or of any other City, agency, elected official or commission of the City of Centerville, such an employee's business, or any business relationship or financial interest that a Centerville elected official, City, agency or commission employee has with the Consultant or in the Consultant's business.

ARTICLE EIGHTEEN: INSURANCE REQUIREMENTS

Consultant and subcontractors shall procure and maintain until all of their obligations have been discharged, including any warranty periods under this Contract are satisfied, insurance against claims for injury to persons or damage to property which may arise from or in connection

with the performance of the work hereunder by the Consultant, its agents, representatives, employees, or subcontractors.

The insurance requirements herein are minimum requirements for this Contract and in no way limit the indemnity covenants contained in this Contract. The City in no way warrants that the minimum limits contained herein are sufficient to protect the Consultant from liabilities that might arise out of the performance of the work under this contract by the Consultant, his agents, representatives, employees, or subcontractors and Consultant is free to purchase additional insurance as may be determined necessary.

- A. **MINIMUM SCOPE AND LIMITS OF INSURANCE:** Contractor shall provide coverage with limits of liability not less than those stated below. An excess liability policy or umbrella liability policy may be used to meet the minimum liability requirements provided that the coverage is written on a “following form” basis.

1. Commercial General Liability – Occurrence Form

Policy shall include bodily injury, property damage, and broad form contractual liability coverage.

- General Aggregate \$2,000,000
- Products – Completed Operations Aggregate \$1,000,000
- Personal and Advertising Injury \$1,000,000
- Each Occurrence \$1,000,000

- a. The policy shall be endorsed to include the following additional insured language: “The City of Centerville shall be named as an additional insured with respect to liability arising out of the activities performed by, or on behalf of the Contractor, including completed operations”.
- b. Coverage shall be primary and non-contributory.
- c. Associated bid number, job number, or project number should be referenced on the certificate.
- d. The Policy should contain an unintentional failure to disclose endorsement.
- e. The policy should include a notice of occurrence endorsement – CEO, President, CFO, Risk Manager, or General Counsel.
- f. Contractor’s subcontractor shall be subject to the same minimum requirements identified above.

2. Automobile Liability

Dimco Way and Cloyo Intersection Improvements

Bodily Injury and Property Damage for any owned, hired, and non-owned vehicles used in the performance of this Contract.

Combined Single Limit (CSL) \$1,000,000

- a. Coverage shall be primary and non-contributory.
- b. Policy should be endorsed with an unintentional failure to disclose wording.
- c. The policy should include a notice of occurrence endorsement – CEO, President, CFO, Risk Manager, or General Counsel.
- d. Associated bid number, job number, or project number should be referenced on the certificate.
- e. Contractor’s subcontractor shall be subject to the same minimum requirements identified above.

3. Workers' Compensation and Employers' Liability

Workers' Compensation Statutory

Ohio Employers' Liability

Each Accident \$1,000,000

Disease – Each Employee \$1,000,000

Disease – Policy Limit
\$1,000,000

- a. Policy shall contain a waiver of subrogation in favor of the City of Centerville.
- b. Contractor’s subcontractor shall be subject to the same minimum requirements identified in this section.

4. Professional Liability (Errors and Omissions Liability)

The policy shall cover professional misconduct or lack of ordinary skill for those positions defined in the Scope of Services of this contract.

Each Claim/Aggregate \$1,000,000

Annual Aggregate \$2,000,000

- a. In the event that the professional liability insurance required by this Contract is written on a claims-made basis, Contractor warrants that any retroactive date under the policy shall precede the effective date of this Contract; and that continuous coverage will be maintained for a period of two (2) years beginning at the time work under this Contract is completed.

B. **ADDITIONAL INSURANCE REQUIREMENTS:** The policies shall include, or be endorsed to include, the following provisions:

- 1. On insurance policies where the City of Centerville is named as an additional insured, the City shall be an additional insured to the full limits of liability purchased by the Contractor even if those limits of liability are in excess of those

required by this Contract.

- 2 The Contractor's insurance coverage shall be primary insurance and non-contributory with respect to all other available sources.
- C. **NOTICE OF CANCELLATION:** Each insurance policy required by the insurance provisions of this Contract shall provide the required coverage and shall not be suspended, voided, or canceled except after sixty (60) days prior written notice has been given to the City, except when cancellation is for non-payment of premium, then ten (10) days prior notice may be given. Such notice shall be sent directly to **the City of Centerville, Ohio.**
- D. **ACCEPTABILITY OF INSURERS:** Insurance is to be placed with insurers duly licensed or authorized to do business with the City of Centerville with an "A.M. Best" rating of not less than A IX. The City in no way warrants that the above-required minimum insurer rating is sufficient to protect the Contractor from potential insurer insolvency.
- E. **VERIFICATION OF COVERAGE:** Contractor shall furnish the City with certificates of insurance (ACORD form or equivalent approved by the City) as required by this Agreement. The certificates for each insurance policy are to be signed by a person authorized by that insurer to bind coverage on its behalf.

All certificates and any required endorsements are to be received and approved by the County before work commences. Each insurance policy required by this Agreement must be in effect at or prior to commencement of work under this Contract and remain in effect for the duration of the project. Failure to maintain the insurance policies as required by this Agreement or to provide evidence of renewal is a material breach of contract.

- F. **SUBCONTRACTORS:** Contractors' certificate(s) shall include all subcontractors as additional insureds under its policies **or** Contractor shall furnish to the City separate certificates and endorsements for each subcontractor. All coverages for subcontractors shall be subject to the minimum requirements identified above.
- G. **APPROVAL:** Any modification or variation from the insurance requirements in this Agreement shall be made by the Municipal Attorney, whose decision shall be final. Such action will not require a formal Agreement amendment, but may be made by administrative action.

ARTICLE NINETEEN: PERFORMANCE BOND

No performance bond is required for this Agreement.

ARTICLE TWENTY: NOTICES

Any notices required or authorized to be given shall be deemed to be given when mailed by certified or registered mail, postage prepaid, as follows: if to the City, to the City's address as shown on the face of this Agreement; if to the Consultant, to the Consultant's address as shown on the face of this Agreement.

ARTICLE TWENTY-ONE: HEADINGS

Organization of the Specifications into divisions, sections and articles and arrangement of Drawings shall not control the Consultant in dividing the Work among subcontractors or in establishing the extent of Work to be performed by any trade. Numbered topical headings, articles, paragraphs, subparagraphs or titles in this Agreement are inserted for the convenience of organization and reference and are not intended to affect the interpretation or construction of the terms thereof.

ARTICLE TWENTY-TWO: AUTHORITY TO BIND PRINCIPAL

Signatures hereon shall act as express representations that the signing agents are authorized to bind their respective principals to all rights, duties, remedies, obligations and responsibilities incurred by way of this Agreement.

ARTICLE TWENTY-THREE: AMENDMENT TO AGREEMENT/ACCEPTANCE

Conflicts with Agreement. This Agreement amends and is incorporated by reference into any agreement submitted by Contractor or Consultant (“Contractor’s Agreement”). In the event of any conflict or inconsistency between this Agreement and the Contractor’s Agreement, the terms of this Agreement shall control, and shall amend, restate, and supersede any conflicting or inconsistent terms in the Contractor’s Agreement regardless of whether the provisions of this Agreement are prefaced with “notwithstanding anything else to the contrary” or similar language. The term “Contractor’s Agreement” refers to any additional agreement provided by Contractor, and as the context requires, such Contractor’s Agreement as amended by this Agreement.

Acceptance of this Agreement. This Agreement will be deemed agreed, accepted, and confirmed by the applicable parties.

NOTICE: THIS AGREEMENT MUST BE SIGNED AND RETURNED WITHIN THIRTY (30) DAYS OF NOTIFICATION OR THE OFFER TO ENTER INTO THIS AGREEMENT SHALL BE WITHDRAWN AND THIS AGREEMENT SHALL BE VOID.

The parties have hereunto set their hands this ____ day of _____, 2022.

**Signed and acknowledged
in the presence of:**

CITY OF CENTERVILLE

Wayne S. Davis
City Manager

TEC Engineering, Inc.

Name:

Title:

APPROVED AS TO FORM BY:

Scott A. Liberman
Municipal Attorney

Date: _____

EXHIBIT "A" SUMMARY OF STEPS

C-R-S **MOT-CLYO/DIMCO WAY IMPROVEMENTS**
Consultant: TEC ENGINEERING, INC.
Agreement No. -
Modification No. -
PID No. 119553
Proposal Date 7/22/2024

Average Hourly Rate	Total Hours	Labor Costs	Overhead Costs	Cost of Money	Direct Costs	Subcon Costs	Net Fee	Total Cost
AUTHORIZED TASKS:								
Planning Phase								
\$44.77	156	\$6,983	\$12,928	\$73	\$1,996	\$0	\$1,997	\$23,978
Preliminary Engineering Phase								
\$42.85	2174	\$93,165	\$172,467	\$978	\$262	\$42,033	\$26,643	\$335,549
Environmental Engineering Phase								
\$44.80	1206	\$54,033	\$100,026	\$567	\$246	\$2,052	\$15,452	\$172,377
Final Engineering Phase								
\$47.95	223	\$10,693	\$19,794	\$112	\$123	\$125,450	\$3,058	\$159,230
Construction Engineering Phase								
\$47.95	20	\$900	\$1,666	\$9	\$0	\$0	\$257	\$2,833
TOTAL AUTHORIZED TASKS								
\$43.87	3779	\$165,774	\$306,881	\$1,741	\$2,628	\$169,535	\$47,408	\$693,967
IF-AUTHORIZED TASKS:								
Planning Phase								
Preliminary Engineering Phase								
	166	\$7,181	\$13,294	\$75	\$0	\$5,353	\$2,054	\$27,957
Environmental Engineering Phase								
	364	\$15,763	\$29,181	\$166	\$0	\$7,049	\$4,508	\$56,666
Final Engineering Phase								
	162	\$6,698	\$12,400	\$70	\$0	\$0	\$1,916	\$21,084
Construction Engineering Phase								
TOTAL IF-AUTHORIZED TASKS								
	692	\$29,642	\$54,874	\$311	\$0	\$12,402	\$8,477	\$105,707
GRAND TOTAL								
	4471	\$195,417	\$361,755	\$2,052	\$2,628	\$181,937	\$55,885	\$799,674

C-R-S		MOT-CLYO/DIMCO WAY IMPROVEMENTS										PROPOSAL LABOR SUMMARY		Version: Sept 2021
Consultant:		TEC ENGINEERING, INC.												\$693,967
Agreement No.		-												
Modification No.		-												
PID No.		119553												
Proposal Date		7/26/2024												
Task Description		7/22/2024	No. of Units	VP	Proj. Manager	Sr. Proj. Engineer	Design Engineer	Senior Tech	Technician	Signal Tech	Surveyor	Total		
AUTHORIZED TASKS:												Hours	Cost	
1 - Planning Phase														
1.3 - Existing Data, Research and Analysis														
1.3.B - Crash Analysis														
1.3.C - Traffic Counts														
1.3.C.A - Turning Movement Counts at Intersections - No Build														
1.3.C.B - Machine Counts on Roadways and Ramps - No Build														
1.3.C.C - Preliminary Coordination Meeting for Traffic Modeling														
1.3.D - Planning Level Traffic - No Build Condition														
1.3.F - Capacity Analysis - No Build Condition														
1.3.G - Safety Analysis - No Build Condition														
TOTAL 1.3 - Existing Data, Research and Analysis														
1.5 - Project Management for Planning Phase														
1.5.C - Project Set Up														
TOTAL 1.5 - Project Management for Planning Phase														
TOTAL 1- Planning Phase														
2 - Preliminary Engineering Phase														
2.1 - Develop Preliminary Alternatives														
2.1.A -Prepare and Complete Feasibility Study Report														
2.1.A.A - Planning Level Traffic for Feasible (Build) Alternatives														
2.1.A.C - Capacity Analysis Feasible (Build) Alternative(s)														
2.1.A.D - Safety Analysis for Feasible (Build) Alternative(s)														
2.1.A.E - Field Survey and Aerial Mapping - Planning Level														
2.1.A.F - Typical Section														
2.1.A.G - Preliminary Alignment and Profile														
2.1.A.H - Cross-Sections														
2.1.A.I - Mapping														
2.1.A.J - Stakeholder Public Involvement														
2.1.A.K - Prepare Feasibility Study														
TOTAL 2.1 - Develop Preliminary Alternatives														
2.3 - AER Design														
2.3.A - Field Survey and Aerial Mapping														
2.3.A.A - Project Control, Benchmarks, and Reference Points														
2.3.A.A.2 - Type "B" Monument Specified														
2.3.A.B - Monumentation recovery														
2.3.A.B.1 - Existing Centerline and R/W														
2.3.A.B.2 - Property Lines (Used on projects with additional R/W needed)														
2.3.A.C - Base Mapping (incl. field verify.)														
2.3.A.C.2 - R/W Project														
2.3.A.D - Drainage Survey (stream cross sections)														
2.3.A.E - Bridge Survey														
2.3.A.F - Establish property lines, tax id, & ownerships on base map														
2.3.A.G - Property Owner Notification														
2.3.D - Traffic Control														
2.3.D.A - Documentation of Proprietary Bid Justification – Signals														

C-R-S		MOT-CLYO/DIMCO WAY IMPROVEMENTS										PROPOSAL LABOR SUMMARY		Version: Sept 2021
Consultant:		TEC ENGINEERING, INC.												\$693,967
Agreement No.		-												
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PID No.		119553												
Proposal Date		7/26/2024												
Task Description		7/22/2024	No. of Units	VP	Proj. Manager	Sr. Proj. Engineer	Design Engineer	Senior Tech	Technician	Signal Tech	Surveyor	Total		
												Hours	Cost	
2.3.E - Signals & ITS														
2.3.E.A - Signal Warrant Analysis					3							3	\$144	
2.3.G - Utilities							4	16				20	\$664	
2.3.H - Miscellaneous														
2.3.H.A - Identify and coordinate impacts on FEMA flood zones					10							10	\$481	
TOTAL 2.3 - AER Design			0	0	17	4	301	0	0	0	171	493	\$18,905	
2.4 - Prepare Cost Estimates														
2.4.A - Roadway/Interchange Costs				2	4	12						18	\$754	
2.4.B - Right of Way Costs				2								2	\$106	
TOTAL 2.4 - Prepare Cost Estimates			0	4	4	12	0	0	0	0	0	20	\$860	
2.7 - Stage 1 Design														
2.7.A - Roadway														
2.7.A.A - Title Sheet					4	4						8	\$344	
2.7.A.B - Schematic Plan										26		26	\$1,263	
2.7.A.D - General Notes					4							4	\$192	
2.7.A.E - Typical Sections					10	10						20	\$861	
2.7.A.F - Cross Sections					100	200						300	\$12,404	
2.7.A.G - Plan and Profile - Mainline					24	60						84	\$3,433	
2.7.A.H - Plan and Profile - Crossroads					24	60						84	\$3,433	
2.7.A.K - Intersection Details					24	24						48	\$2,065	
2.7.A.L - Curb Ramp Details					12	12						24	\$1,033	
2.7.A.N - Driveway Details					15	15						30	\$1,291	
2.7.A.P - Traffic Control					12	12						24	\$1,033	
2.7.B - Drainage														
2.7.B.A - Storm Sewer Profiles					50							50	\$2,404	
2.7.B.D.2 - Drainage Calculations - Ditches					16	24						40	\$1,681	
2.7.B.D.3 - Drainage Calculations - Storm Sewer/Inlet Spacing					16	24						40	\$1,681	
2.7.B.E - BMP Design					16	16						32	\$1,377	
2.7.C - Utilities														
2.7.C.A - Utility Coordination and Documentation				6	6							12	\$606	
2.7.C.D - Add Utilities to Plan/Profile Sheets					15							15	\$721	
2.7.D - Geotechnical Services														
2.7.D.A - Geotechnical Services and Report (MSG)												0	\$0	
2.7.H - Prepare C2 Cost Estimates and Update Milestones														
2.7.H.A - Roadway/Interchange Costs					18	18						36	\$1,549	
2.7.J - Maintenance of Traffic														
2.7.J.A - Detour Plan					16							16	\$769	
2.7.J.C - Conceptual MOT Revision					12							12	\$577	
2.7.J.D - MOT Coordination Discussions				14	14							28	\$1,413	
TOTAL - 2.7 - Stage 1 Design			0	20	408	479	0	0	0	0	26	933	\$40,129	
2.8 - Project Management for Preliminary Engineering Phase														
2.8.A - Meetings			6	6	2							14	\$846	
2.8.B - General Oversight		11	55	55								110	\$6,875	
TOTAL 2.8 - Project Management for			61	61	2	0	0	0	0	0	0	124	\$7,721	
Total - 2 Preliminary Engineering Phase			69	129	659	731	301	72	0	213	2174	\$93,165		

C-R-S		MOT-CLYO/DIMCO WAY IMPROVEMENTS	PROPOSAL LABOR SUMMARY										Version: Sept 2021	
Consultant:		TEC ENGINEERING, INC.											\$693,967	
Agreement No.		-												
Modification No.		-												
PID No.		119553												
Proposal Date		7/26/2024												
Task Description		7/22/2024	No. of Units	VP	Proj. Manager	Sr. Proj. Engineer	Design Engineer	Senior Tech	Technician	Signal Tech	Surveyor	Total		
												Hours	Cost	
3 - Environmental Engineering Phase														
3.3 - Stage2														
3.3.A - Roadway														
3.3.A.A - Title Sheet														
3.3.A.B - Schematic														
3.3.A.D - General Notes														
3.3.A.E - Typical Sections														
3.3.A.F - Plan and Profile - Mainline														
3.3.A.G - Plan and Profile - Crossroads														
3.3.A.I - Cross Sections														
3.3.A.J - Intersection Details														
3.3.A.L - Curb Ramp Details														
3.3.B - Drainage														
3.3.B.A - Storm Sewer Profiles														
3.3.B.D - Underdrain details														
3.3.B.E - BMP Details														
3.3.C - Traffic Control														
3.3.C.A - Pavement Marking Plan														
3.3.C.B - Signing Plan														
3.3.E - Maintenance of Traffic														
3.3.E.A - MOT General Notes														
3.3.E.D - Temporary Signing Details														
3.3.E.E - MOT Typical Sections														
3.3.E.F - MOT Plan Sheets														
3.3.E.G - Temporary Signal Details (Modification of Existing or Proposed Signal)														
3.3.E.G.1 - Temporary Signal Details (Modification of Existing or Proposed Signal) –														
3.3.J - Utilities														
3.3.J.A - Utility Coordination and Documentation														
3.3.K - Geotechnical Services														
3.3.K.A - Finalize Geotechnical Investigation and Report (MSG)														
TOTAL 3.3 - Stage2														
3.4 - Right of Way Plans														
3.4.B - Preliminary Right of Way Plans														
3.4.B.A - Legend Sheet														
3.4.B.B - Centerline Survey Plat														
3.4.B.C - Property Map														
3.4.B.D - Summary of Additional Right of Way														
3.4.B.E - ROW Detail Sheets														
3.4.B.G - Legal Descriptions and Closure Calculations														
3.4.B.I - Field Review														
3.4.C - Final Right of Way Plans														
3.4.C.A - Final Right of Way Plan Sheets and Legal Descriptions														
3.4.C.B - Field Review & Verify Property Owners														
3.4.C.C - Record Centerline Plat and all appropriate documents														
3.4.C.D - Set R/W Pins after acquisition														
TOTAL 3.4 - Right of Way Plans														
3.8 - Prepare Cost Estimates and Revise Milestone														
3.8.A - Roadway/Interchange Costs														
TOTAL 3.8 - Prepare Cost Estimates and Revise Milestone														

C-R-S		MOT-CLYO/DIMCO WAY IMPROVEMENTS										PROPOSAL LABOR SUMMARY		Version: Sept 2021
Consultant:		TEC ENGINEERING, INC.												\$693,967
Agreement No.		-												
Modification No.		-												
PID No.		119553												
Proposal Date		7/26/2024												
Task Description		7/22/2024	No. of Units	VP	Proj. Manager	Sr. Proj. Engineer	Design Engineer	Senior Tech	Technician	Signal Tech	Surveyor	Total		
			\$72.12	\$52.88	\$48.08	\$37.98	\$32.00	\$27.00	\$43.00	\$48.56	Hours	Cost		
3.9 - Project Management for Environmental Engineering Phase														
3.9.A - Meetings			6	6								12	\$750	
3.9.B - General Oversight			60	60								120	\$7,500	
TOTAL 3.9 - Project Management for			66	66	0	0	0	0	0	0		132	\$8,250	
Total - 3 Environmental Engineering Phase			66	70	400	307	178	0	0	185		1206	\$54,033	
4 - Final Engineering and R/W Phase														
4.1 - Right of Way Acquisition														
4.1.A - Right of Way Acquisition												0	\$0	
TOTAL 4.1 - Right of Way Acquisition			0	0	0	0	0	0	0	0		0	\$0	
4.2 - Stage 3 Detailed Design Plans														
4.2.A - Quantities and Notes														
4.2.A.A - Pavement Subsummary					8	4						12	\$537	
4.2.A.B - Drainage Subsummary					4	4						8	\$344	
4.2.A.C - Roadway Subsummary					12	8						20	\$881	
4.2.A.E - Maintenance of Traffic Subsummary					1							1	\$48	
4.2.A.F - Pavement Marking Subsummary					8	10						18	\$764	
4.2.A.G - Signing Subsummary					8	10						18	\$764	
4.2.A.M - General Summary Sheet					20	20						40	\$1,721	
4.2.A.P - General Notes					12							12	\$577	
TOTAL 4.2 - Stage 3 Detailed Design Plans			0	0	73	56	0	0	0	0		129	\$5,637	
4.3 - Prepare Cost Estimates and Revise Milestone														
4.3.A - Roadway/Interchange Costs					20	12						32	\$1,417	
TOTAL 4.3 - Prepare Cost Estimates and Revise Milestone			0	0	20	12	0	0	0	0		32	\$1,417	
4.4 - Final Plan Package														
4.4.A - Submission of Final Tracings and Documentation					12	12						24	\$1,033	
4.4 - Final Plan Package			0	0	12	12	0	0	0	0		24	\$1,033	
4.5 - Project Management for Final Engineering and Right of Way Phase														
4.5.A - Meetings			3	3								6	\$375	
4.5.B - General Oversight		6	24									24	\$1,731	
TOTAL 4.5 - Project Management for Final Engineering and Right of Way Phase			27	3	0	0	0	0	0	0		30	\$2,106	
4.6 - Pre-Bid Activities														
4.6.A - Pre-Bid Questions			4	4								8	\$500	
TOTAL 4.6 - Pre-Bid Activities			4	4	0	0	0	0	0	0		8	\$500	
TOTAL - Final Engineering Phase			31	7	105	80	0	0	0	0		223	\$10,693	
5 - Construction Phase														
5.1 - On-going Services during Construction														
5.1.A - On-going Services During Construction				4	8	8						20	\$900	
TOTAL 5.1 - On-going Services during Construction			0	4	8	8	0	0	0	0		20	\$900	

C-R-S		MOT-CLYO/DIMCO WAY IMPROVEMENTS										PROPOSAL LABOR SUMMARY		Version: Sept 2021
Consultant:		TEC ENGINEERING, INC.												\$693,967
Agreement No.		-												
Modification No.		-												
PID No.		119553												
Proposal Date		7/26/2024												
Task Description		7/22/2024	No. of Units	VP	Proj. Manager	Sr. Proj. Engineer	Design Engineer	Senior Tech	Technician	Signal Tech	Surveyor	Total		
			\$72.12	\$52.88	\$48.08	\$37.98	\$32.00	\$27.00	\$43.00	\$48.56	Hours	Cost		
TOTAL - Construction Phase			0	4	8	8	0	0	0	0	20	\$900		
TOTAL AUTHORIZED PARTS			190	228	1230	1126	479	128	0	398	3779	\$165,774		
IF-AUTHORIZED TASKS:														
Certified Traffic														
2.1.A.B - Certified Traffic Feasible (Build) Alternative(s)				16	60	20		24			120	\$5,138		
Additional Environmental Support														
2.2.C - Ecological Survey Report - Level 1											0	\$0		
Permit Determination Request (PDR)											0	\$0		
3.1.M - Waterway Permit - Section 404											0	\$0		
Water and Sanitary Design														
2.7.C.B - Description of proposed water and/or sewer work				9	9						18	\$909		
3.3.J.B - Water Works Plan		3		8	60	40					108	\$4,827		
3.3.J.C - Water Works Details & Notes		3		4	24	20					48	\$2,125		
3.3.J.D - Sanitary Sewer Plans		3		4	20	12					36	\$1,629		
Lighting Design														
2.7.I - Lighting Plans					4	9					13	\$534		
3.3.F - Lighting Plan														
3.3.F.A - Lighting Analysis					8	22					30	\$1,220		
3.3.F.B - Power/Circuit Layout & Details					5	16					21	\$848		
3.3.F.C - Lighting Plan and Details					7	24					31	\$1,248		
3.3.F.D - Voltage Drop Calculations					3	8					11	\$448		
3.3.F.E - Power Service						9					9	\$342		
4.2.A.K - Lighting Subsummary					8	13					21	\$878		
4.2.A.R - Lighting Notes					8	20					28	\$1,144		
4.2.E - Lighting Plans														
4.2.E.A - Lighting Details					8	16					24	\$992		
Traffic Signal Design														
2.7.K - Signal Plans					3	12					15	\$600		
3.3.D - Signals & ITS														
3.3.D.A - Signal Plan Sheets				20		34					54	\$2,349		
3.3.D.B - Interconnect Details				8		8					16	\$727		
4.2.A.H - Signal Subsummary					12	20					32	\$1,337		
4.2.B - Traffic Signal Plans & ITS Plans														
4.2.B.A - Wiring diagram & pole orientation					4	17					21	\$838		
4.2.B.B - Timing Chart					8	9					17	\$726		
4.2.B.C - Elevation Views of Mast Arm Poles					4	7					11	\$458		
4.2.B.D - Traffic Signal Signs					2	6					8	\$324		
TOTAL IF-AUTHORIZED PARTS			0	69	257	342	0	24	0	0	692	\$29,642		
GRAND TOTAL			190	297	1487	1468	479	152	0	398	4471	\$195,417		

C-R-S		MOT-CLYO/DIMCO WAY IMPROVEMENTS				PROPOSAL COST SUMMARY					
Consultant:	TEC ENGINEERING, INC.										
Agreement No.	-				State Average Overhead Rate		159.98%				
Modification No.	-				Consultant Overhead Rate:		185.12%				
PID No.	119553				Cost of Money:		1.05%				
Proposal Date	7/26/2024				Net Fee Percentage:		11%				
Task Description	No. of Units	Average Hourly Rate	Total Hours	Labor Costs	Overhead Costs	Cost of Money	Direct Costs	Subcon Costs	Net Fee	Total Cost	
AUTHORIZED TASKS:											
1 - Planning Phase											
1.3 - Existing Data, Research and Analysis											
1.3.B - Crash Analysis		\$35.21	32	\$1,127	\$2,085	\$12	\$0		\$322	\$3,546	
1.3.C - Traffic Counts											
1.3.C.A - Turning Movement Counts at Intersections - No Build		\$27.00	16	\$432	\$800	\$5	\$1,973		\$124	\$3,333	
1.3.C.B - Machine Counts on Roadways and Ramps - No Build		\$27.00	8	\$216	\$400	\$2	\$23		\$62	\$703	
1.3.C.C - Preliminary Coordination Meeting for Traffic Modeling		\$60.10	8	\$481	\$890	\$5	\$0		\$137	\$1,513	
1.3.D - Planning Level Traffic - No Build Condition		\$49.45	28	\$1,385	\$2,563	\$15	\$0		\$396	\$4,358	
1.3.F - Capacity Analysis - No Build Condition		\$44.01	16	\$704	\$1,304	\$7	\$0		\$201	\$2,216	
1.3.G - Safety Analysis - No Build Condition		\$42.74	28	\$1,197	\$2,216	\$13	\$0		\$342	\$3,767	
TOTAL 1.3 - Existing Data, Research and Analysis		\$40.74	136	\$5,541	\$10,257	\$58	\$1,996	\$0	\$1,585	\$19,438	
1.5 - Project Management for Planning Phase											
1.5.C - Project Set Up		\$72.12	20	\$1,442	\$2,670	\$15	\$0		\$412	\$4,540	
TOTAL 1.5 - Project Management for Planning Phase		\$72.12	20	\$1,442	\$2,670	\$15	\$0	\$0	\$412	\$4,540	
TOTAL 1 - Planning Phase		\$44.77	156	\$6,983	\$12,928	\$73	\$1,996	\$0	\$1,997	\$23,978	
2 - Preliminary Engineering Phase											
2.1 - Develop Preliminary Alternatives											
2.1.A - Prepare and Complete Feasibility Study Report											
2.1.A.A - Planning Level Traffic for Feasible (Build) Alternatives		\$47.02	40	\$1,881	\$3,482	\$20	\$0		\$538	\$5,920	
2.1.A.C - Capacity Analysis Feasible (Build) Alternative(s)		\$43.51	40	\$1,740	\$3,222	\$18	\$0		\$498	\$5,478	
2.1.A.D - Safety Analysis for Feasible (Build) Alternative(s)		\$44.44	56	\$2,488	\$4,607	\$26	\$0		\$712	\$7,833	
2.1.A.E - Field Survey and Aerial Mapping - Planning Level		\$34.19	48	\$1,641	\$3,038	\$17	\$0		\$469	\$5,165	
2.1.A.F - Typical Section		\$48.08	4	\$192	\$356	\$2	\$0		\$55	\$605	
2.1.A.G - Preliminary Alignment and Profile		\$43.03	80	\$3,442	\$6,373	\$36	\$0		\$984	\$10,836	
2.1.A.H - Cross-Sections		\$41.77	64	\$2,673	\$4,948	\$28	\$0		\$764	\$8,414	
2.1.A.I - Mapping		\$40.51	32	\$1,296	\$2,399	\$14	\$0		\$371	\$4,080	
2.1.A.J - Stakeholder Public Involvement		\$50.48	16	\$808	\$1,495	\$8	\$0		\$231	\$2,542	
2.1.A.K - Prepare Feasibility Study		\$41.91	224	\$9,388	\$17,379	\$99	\$0		\$2,685	\$29,550	
TOTAL 2.1 - Develop Preliminary Alternatives		\$42.30	604	\$25,550	\$47,298	\$268	\$0	\$0	\$7,307	\$80,424	
2.3 - AER Design											
2.3.A - Field Survey and Aerial Mapping											
2.3.A.A - Project Control, Benchmarks, and Reference Points											
2.3.A.A.2 - Type "B" Monument Specified		\$40.28	40	\$1,611	\$2,983	\$17	\$23		\$461	\$5,095	
2.3.A.B - Monumentation recovery											
2.3.A.B.1 - Existing Centerline and R/W		\$40.28	26	\$1,047	\$1,939	\$11	\$23		\$299	\$3,320	
2.3.A.B.2 - Property Lines (Used on projects with additional R/W)		\$38.62	200	\$7,725	\$14,300	\$81	\$0		\$2,209	\$24,315	
2.3.A.C - Base Mapping (incl. field verify.)											
2.3.A.C.2 - R/W Project		\$37.52	120	\$4,502	\$8,335	\$47	\$93		\$1,288	\$14,265	
2.3.A.D - Drainage Survey (stream cross sections)		\$32.00	8	\$256	\$474	\$3	\$0		\$73	\$806	
2.3.A.E - Bridge Survey											
2.3.A.F - Establish property lines, tax id, & ownerships on base map		\$38.62	40	\$1,545	\$2,860	\$16	\$0		\$442	\$4,863	
2.3.A.G - Property Owner Notification		\$33.51	22	\$737	\$1,365	\$8	\$0		\$211	\$2,320	
2.3.D - Traffic Control											
2.3.D.A - Documentation of Proprietary Bid Justification - Signals		\$48.08	4	\$192	\$356	\$2	\$0		\$55	\$605	

C-R-S		MOT-CLYO/DIMCO WAY IMPROVEMENTS		PROPOSAL COST SUMMARY						
Consultant:	TEC ENGINEERING, INC.									
Agreement No.	-			State Average Overhead Rate			159.98%			
Modification No.	-			Consultant Overhead Rate:			185.12%			
PID No.	119553			Cost of Money:			1.05%			
Proposal Date	7/26/2024			Net Fee Percentage:			11%			
Task Description	No. of Units	Average	Total	Labor	Overhead	Cost of	Direct	Subcon	Net	Total
		Hourly Rate	Hours	Costs	Costs	Money	Costs	Costs	Fee	Cost
2.3.E - Signals & ITS										
2.3.E.A - Signal Warrant Analysis		\$48.08	3	\$144	\$267	\$2	\$0		\$41	\$454
2.3.G - Utilities										
2.3.G.A - Utility Coordination and Documentation		\$33.20	20	\$664	\$1,229	\$7	\$0		\$190	\$2,090
2.3.H - Miscellaneous										
2.3.H.A - Identify and coordinate impacts on FEMA flood zones		\$48.08	10	\$481	\$890	\$5	\$0		\$137	\$1,513
TOTAL 2.3 - AER Design		\$38.35	493	\$18,905	\$34,997	\$199	\$139	\$0	\$5,406	\$59,646
2.4 - Prepare Cost Estimates										
2.4.A - Roadway/Interchange Costs		\$41.88	18	\$754	\$1,396	\$8	\$0		\$216	\$2,373
2.4.B - Right of Way Costs		\$52.88	2	\$106	\$196	\$1	\$0	\$6,500	\$30	\$6,833
TOTAL 2.4 - Prepare Cost Estimates		\$42.98	20	\$860	\$1,591	\$9	\$0	\$6,500	\$246	\$9,206
2.7 - Stage 1 Design										
2.7.A - Roadway										
2.7.A.A - Title Sheet		\$43.03	8	\$344	\$637	\$4	\$0		\$98	\$1,084
2.7.A.B - Schematic Plan		\$48.56	26	\$1,263	\$2,337	\$13	\$0		\$361	\$3,974
2.7.A.D - General Notes		\$48.08	4	\$192	\$356	\$2	\$0		\$55	\$605
2.7.A.E - Typical Sections		\$43.03	20	\$861	\$1,593	\$9	\$0		\$246	\$2,709
2.7.A.F - Cross Sections		\$41.35	300	\$12,404	\$22,962	\$130	\$0		\$3,547	\$39,044
2.7.A.G - Plan and Profile - Mainline		\$40.87	84	\$3,433	\$6,355	\$36	\$0		\$982	\$10,805
2.7.A.H - Plan and Profile - Crossroads		\$40.87	84	\$3,433	\$6,355	\$36	\$0		\$982	\$10,805
2.7.A.K - Intersection Details		\$43.03	48	\$2,065	\$3,824	\$22	\$0		\$591	\$6,501
2.7.A.L - Curb Ramp Details		\$43.03	24	\$1,033	\$1,912	\$11	\$0		\$295	\$3,251
2.7.A.N - Driveway Details		\$43.03	30	\$1,291	\$2,390	\$14	\$0		\$369	\$4,063
2.7.A.P - Traffic Control		\$43.03	24	\$1,033	\$1,912	\$11	\$0		\$295	\$3,251
2.7.B - Drainage										
2.7.B.A - Storm Sewer Profiles		\$48.08	50	\$2,404	\$4,450	\$25	\$0		\$687	\$7,567
2.7.B.D.2 - Drainage Calculations - Ditches		\$42.02	40	\$1,681	\$3,111	\$18	\$0		\$481	\$5,291
2.7.B.D.3 - Drainage Calculations - Storm Sewer/Inlet Spacing		\$42.02	40	\$1,681	\$3,111	\$18	\$0		\$481	\$5,291
2.7.B.E - BMP Design		\$43.03	32	\$1,377	\$2,549	\$14	\$0		\$394	\$4,334
2.7.C - Utilities										
2.7.C.A - Utility Coordination and Documentation		\$50.48	12	\$606	\$1,121	\$6	\$0		\$173	\$1,907
2.7.C.D - Add Utilities to Plan/Profile Sheets		\$48.08	15	\$721	\$1,335	\$8	\$0		\$206	\$2,270
2.7.D - Geotechnical Services										
2.7.D.A - Geotechnical Services and Report (MSG)		--	0	\$0	\$0	\$0	\$0	\$35,533	\$0	\$35,533
2.7.H - Prepare C2 Cost Estimates and Update Milestones										
2.7.H.A - Roadway/Interchange Costs		\$43.03	36	\$1,549	\$2,868	\$16	\$0		\$443	\$4,876
2.7.J - Maintenance of Traffic										
2.7.J.A - Detour Plan		\$48.08	16	\$769	\$1,424	\$8	\$0		\$220	\$2,421
2.7.J.C - Conceptual MOT Revision		\$48.08	12	\$577	\$1,068	\$6	\$0		\$165	\$1,816
2.7.J.D - MOT Coordination Discussions		\$50.48	28	\$1,413	\$2,617	\$15	\$0		\$404	\$4,449
TOTAL - 2.7 - Stage 1 Design		\$43.01	933	\$40,129	\$74,287	\$421	\$0	\$35,533	\$11,476	\$161,847
2.8 - Project Management for Preliminary Engineering Phase										
2.8.A - Meetings		\$60.44	14	\$846	\$1,566	\$9	\$0		\$242	\$2,663
2.8.B - General Oversight		\$62.50	110	\$6,875	\$12,727	\$72	\$123		\$1,966	\$21,763
TOTAL 2.8 - Project Management for		\$62.27	124	\$7,721	\$14,293	\$81	\$123	\$0	\$2,208	\$24,427
Total - 2 Preliminary Engineering Phase		\$42.85	2174	\$93,165	\$172,467	\$978	\$262	\$42,033	\$26,643	\$335,549

C-R-S		MOT-CLYO/DIMCO WAY IMPROVEMENTS		PROPOSAL COST SUMMARY						
Consultant:	TEC ENGINEERING, INC.									
Agreement No.	-			State Average Overhead Rate			159.98%			
Modification No.	-			Consultant Overhead Rate:			185.12%			
PID No.	119553			Cost of Money:			1.05%			
Proposal Date	7/26/2024			Net Fee Percentage:			11%			
Task Description	No. of Units	Average Hourly Rate	Total Hours	Labor Costs	Overhead Costs	Cost of Money	Direct Costs	Subcon Costs	Net Fee	Total Cost
3 - Environmental Engineering Phase										
3.3 - Stage2										
3.3.A - Roadway										
3.3.A.A - Title Sheet		\$43.03	6	\$258	\$478	\$3	\$0		\$74	\$813
3.3.A.B - Schematic		\$48.56	6	\$291	\$539	\$3	\$0		\$83	\$917
3.3.A.D - General Notes		\$43.03	16	\$688	\$1,275	\$7	\$0		\$197	\$2,167
3.3.A.E - Typical Sections		\$43.03	8	\$344	\$637	\$4	\$0		\$98	\$1,084
3.3.A.F - Plan and Profile - Mainline		\$43.03	60	\$2,582	\$4,779	\$27	\$0		\$738	\$8,127
3.3.A.G - Plan and Profile - Crossroads		\$41.35	36	\$1,488	\$2,755	\$16	\$0		\$426	\$4,685
3.3.A.I - Cross Sections		\$41.35	150	\$6,202	\$11,481	\$65	\$0		\$1,774	\$19,522
3.3.A.J - Intersection Details		\$48.08	32	\$1,539	\$2,848	\$16	\$0		\$440	\$4,843
3.3.A.L - Curb Ramp Details		\$48.08	8	\$385	\$712	\$4	\$0		\$110	\$1,211
3.3.B - Drainage										
3.3.B.A - Storm Sewer Profiles		\$48.08	12	\$577	\$1,068	\$6	\$0		\$165	\$1,816
3.3.B.D - Underdrain details		\$48.08	25	\$1,202	\$2,225	\$13	\$0		\$344	\$3,784
3.3.B.E - BMP Details		\$48.08	8	\$385	\$712	\$4	\$0		\$110	\$1,211
3.3.C - Traffic Control										
3.3.C.A - Pavement Marking Plan		\$48.08	30	\$1,442	\$2,670	\$15	\$0		\$412	\$4,540
3.3.C.B - Signing Plan		\$48.08	30	\$1,442	\$2,670	\$15	\$0		\$412	\$4,540
3.3.E - Maintenance of Traffic										
3.3.E.A - MOT General Notes		\$48.08	8	\$385	\$712	\$4	\$0		\$110	\$1,211
3.3.E.D - Temporary Signing Details										
3.3.E.E - MOT Typical Sections		\$48.08	8	\$385	\$712	\$4	\$0		\$110	\$1,211
3.3.E.F - MOT Plan Sheets		\$42.47	180	\$7,644	\$14,151	\$80	\$0		\$2,186	\$24,062
3.3.E.G - Temporary Signal Details (Modification of Existing or Proposed)										
3.3.E.G.1 - Temporary Signal Details (Modification of Existing or Proposed)		\$43.03	40	\$1,721	\$3,186	\$18	\$0		\$492	\$5,418
3.3.J - Utilities										
3.3.J.A - Utility Coordination and Documentation		\$48.08	24	\$1,154	\$2,136	\$12	\$0		\$330	\$3,632
3.3.K - Geotechnical Services										
3.3.K.A - Finalize Geotechnical Investigation and Report (MSG)		--	0	\$0	\$0	\$0	\$0	\$2,052	\$0	\$2,052
TOTAL 3.3 - Stage2		\$43.84	687	\$30,115	\$55,749	\$316	\$0	\$2,052	\$8,612	\$96,844
3.4 - Right of Way Plans										
3.4.B - Preliminary Right of Way Plans										
3.4.B.A - Legend Sheet		\$35.31	10	\$353	\$654	\$4	\$0		\$101	\$1,112
3.4.B.B - Centerline Survey Plat		\$33.84	36	\$1,218	\$2,255	\$13	\$0		\$348	\$3,835
3.4.B.C - Property Map		\$34.55	26	\$898	\$1,663	\$9	\$0		\$257	\$2,827
3.4.B.D - Summary of Additional Right of Way		\$48.56	24	\$1,165	\$2,157	\$12	\$0		\$333	\$3,668
3.4.B.E - ROW Detail Sheets		\$38.90	144	\$5,602	\$10,370	\$59	\$0		\$1,602	\$17,632
3.4.B.G - Legal Descriptions and Closure Calculations		\$48.56	39	\$1,894	\$3,506	\$20	\$0		\$542	\$5,961
3.4.B.I - Field Review		\$35.31	10	\$353	\$654	\$4	\$23		\$101	\$1,135
3.4.C - Final Right of Way Plans										
3.4.C.A - Final Right of Way Plan Sheets and Legal Descriptions		\$44.42	24	\$1,066	\$1,974	\$11	\$100		\$305	\$3,456
3.4.C.B - Field Review & Verify Property Owners		\$37.52	12	\$450	\$833	\$5	\$0		\$129	\$1,417
3.4.C.C - Record Centerline Plat and all appropriate documents		\$48.56	16	\$777	\$1,438	\$8	\$0		\$222	\$2,446
3.4.C.D - Set R/W Pins after acquisition		\$38.21	16	\$611	\$1,132	\$6	\$0		\$175	\$1,924
TOTAL 3.4 - Right of Way Plans		\$40.30	357	\$14,388	\$26,636	\$151	\$123	\$0	\$4,115	\$45,413
3.8 - Prepare Cost Estimates and Revise Milestone										
3.8.A - Roadway/Interchange Costs		\$42.66	30	\$1,280	\$2,369	\$13	\$0		\$366	\$4,028
TOTAL 3.8 - Prepare Cost Estimates and Revise Milestone		\$42.66	30	\$1,280	\$2,369	\$13	\$0	\$0	\$366	\$4,028

C-R-S		MOT-CLYO/DIMCO WAY IMPROVEMENTS				PROPOSAL COST SUMMARY						Version: Sept 2021
Consultant:	TEC ENGINEERING, INC.											
Agreement No.	-					State Average Overhead Rate	159.98%					
Modification No.	-					Consultant Overhead Rate:	185.12%					
PID No.	119553					Cost of Money:	1.05%					
Proposal Date	7/26/2024					Net Fee Percentage:	11%					
Task Description	No. of Units	Average Hourly Rate	Total Hours	Labor Costs	Overhead Costs	Cost of Money	Direct Costs	Subcon Costs	Net Fee	Total Cost		
3.9 - Project Management for Environmental Engineering Phase												
3.9.A - Meetings		\$62.50	12	\$750	\$1,388	\$8	\$0		\$214	\$2,361		
3.9.B - General Oversight		\$62.50	120	\$7,500	\$13,884	\$79	\$123		\$2,145	\$23,731		
TOTAL 3.9 - Project Management for		\$62.50	132	\$8,250	\$15,272	\$87	\$123	\$0	\$2,359	\$26,092		
Total - 3 Environmental Engineering Phase		\$44.80	1206	\$54,033	\$100,026	\$567	\$246	\$2,052	\$15,452	\$172,377		
4 - Final Engineering and R/W Phase												
4.1 - Right of Way Acquisition												
4.1.A - Right of Way Acquisition		--	0	\$0	\$0	\$0	\$0	\$125,450	\$0	\$125,450		
TOTAL 4.1 - Right of Way Acquisition		--	0	\$0	\$0	\$0	\$0	\$125,450	\$0	\$125,450		
4.2 - Stage 3 Detailed Design Plans												
4.2.A - Quantities and Notes												
4.2.A.A - Pavement Subsummary		\$44.71	12	\$537	\$993	\$6	\$0		\$153	\$1,689		
4.2.A.B - Drainage Subsummary		\$43.03	8	\$344	\$637	\$4	\$0		\$98	\$1,084		
4.2.A.C - Roadway Subsummary		\$44.04	20	\$881	\$1,631	\$9	\$0		\$252	\$2,772		
4.2.A.E - Maintenance of Traffic Subsummary		\$48.08	1	\$48	\$89	\$1	\$0		\$14	\$151		
4.2.A.F - Pavement Marking Subsummary		\$42.47	18	\$764	\$1,415	\$8	\$0		\$219	\$2,406		
4.2.A.G - Signing Subsummary		\$42.47	18	\$764	\$1,415	\$8	\$0		\$219	\$2,406		
4.2.A.M - General Summary Sheet		\$43.03	40	\$1,721	\$3,186	\$18	\$0		\$492	\$5,418		
4.2.A.P - General Notes		\$48.08	12	\$577	\$1,068	\$6	\$0		\$165	\$1,816		
TOTAL 4.2 - Stage 3 Detailed Design Plans		\$43.70	129	\$5,637	\$10,435	\$59	\$0	\$0	\$1,612	\$17,743		
4.3 - Prepare Cost Estimates and Revise Milestone												
4.3.A - Roadway/Interchange Costs		\$44.29	32	\$1,417	\$2,624	\$15	\$0		\$405	\$4,461		
TOTAL 4.3 - Prepare Cost Estimates and Revise Milestone		\$44.29	32	\$1,417	\$2,624	\$15	\$0	\$0	\$405	\$4,461		
4.4 - Final Plan Package												
4.4.A - Submission of Final Tracings and Documentation		\$43.03	24	\$1,033	\$1,912	\$11	\$100		\$295	\$3,351		
4.4 - Final Plan Package		\$43.03	24	\$1,033	\$1,912	\$11	\$100	\$0	\$295	\$3,351		
4.5 - Project Management for Final Engineering and Right of Way Phase												
4.5.A - Meetings		\$62.50	6	\$375	\$694	\$4	\$0		\$107	\$1,180		
4.5.B - General Oversight		\$72.12	24	\$1,731	\$3,204	\$18	\$23		\$495	\$5,471		
TOTAL 4.5 - Project Management for Final Engineering and Right of Way		\$70.20	30	\$2,106	\$3,898	\$22	\$23	\$0	\$602	\$6,652		
4.6 - Pre-Bid Activities												
4.6.A - Pre-Bid Questions		\$62.50	8	\$500	\$926	\$5	\$0		\$143	\$1,574		
TOTAL 4.6 - Pre-Bid Activities		\$62.50	8	\$500	\$926	\$5	\$0	\$0	\$143	\$1,574		
TOTAL - Final Engineering Phase		\$47.95	223	\$10,693	\$19,794	\$112	\$123	\$125,450	\$3,058	\$159,230		
5 - Construction Phase												
5.1 - On-going Services during Construction												
5.1.A - On-going Services During Construction		\$45.00	20	\$900	\$1,666	\$9	\$0		\$257	\$2,833		
TOTAL 5.1 - On-going Services during Construction		\$45.00	20	\$900	\$1,666	\$9	\$0	\$0	\$257	\$2,833		

C-R-S		PROPOSAL COST SUMMARY										Version: Sept 2021
Consultant:	TEC ENGINEERING, INC.											
Agreement No.	-											
Modification No.	-											
PID No.	119553				State Average Overhead Rate			159.98%				
Proposal Date	7/26/2024				Consultant Overhead Rate:			185.12%				
					Cost of Money:			1.05%				
					Net Fee Percentage:			11%				
Task Description	No. of Units	Average	Total	Labor	Overhead	Cost of	Direct	Subcon	Net	Total		
		Hourly Rate	Hours	Costs	Costs	Money	Costs	Costs	Fee	Cost		
TOTAL - Construction Phase		\$45.00	20	\$900	\$1,666	\$9	\$0	\$0	\$257	\$2,833		
TOTAL AUTHORIZED PARTS		\$43.87	3779	\$ 165,774	\$ 306,881	\$ 1,741	\$ 2,628	\$ 169,535	\$ 47,408	\$ 693,967		
IF-AUTHORIZED TASKS:												
Certified Traffic												
2.1.A.B - Certified Traffic Feasible (Build) Alternative(s)												
		\$42.82	120	\$5,138	\$9,512	\$54	\$0		\$1,469	\$16,174		
Additional Environmental Support												
2.2.C - Ecological Survey Report - Level 1												
		--	0	\$0	\$0	\$0	\$0	\$5,353	\$0	\$5,353		
Permit Determination Request (PDR)												
		--	0	\$0	\$0	\$0	\$0	\$2,614	\$0	\$2,614		
3.1.M - Waterway Permit - Section 404												
		--	0	\$0	\$0	\$0	\$0	\$4,435	\$0	\$4,435		
Water and Sanitary Design												
2.7.C.B - Description of proposed water and/or sewer work												
		\$50.48	18	\$909	\$1,682	\$10	\$0		\$260	\$2,860		
3.3.J.B - Water Works Plan												
		\$44.69	108	\$4,827	\$8,936	\$51	\$0		\$1,380	\$15,194		
3.3.J.C - Water Works Details & Notes												
		\$44.27	48	\$2,125	\$3,934	\$22	\$0		\$608	\$6,689		
3.3.J.D - Sanitary Sewer Plans												
		\$45.25	36	\$1,629	\$3,015	\$17	\$0		\$466	\$5,127		
Lighting Design												
2.7.I - Lighting Plans												
		\$41.09	13	\$534	\$989	\$6	\$0		\$153	\$1,681		
3.3.F - Lighting Plan												
3.3.F.A - Lighting Analysis												
		\$40.67	30	\$1,220	\$2,259	\$13	\$0		\$349	\$3,841		
3.3.F.B - Power/Circuit Layout & Details												
		\$40.38	21	\$848	\$1,570	\$9	\$0		\$243	\$2,669		
3.3.F.C - Lighting Plan and Details												
		\$40.26	31	\$1,248	\$2,310	\$13	\$0		\$357	\$3,929		
3.3.F.D - Voltage Drop Calculations												
		\$40.73	11	\$448	\$829	\$5	\$0		\$128	\$1,410		
3.3.F.E - Power Service												
		\$37.98	9	\$342	\$633	\$4	\$0		\$98	\$1,076		
4.2.A.K - Lighting Subsummary												
		\$41.83	21	\$878	\$1,626	\$9	\$0		\$251	\$2,765		
4.2.A.R - Lighting Notes												
		\$40.87	28	\$1,144	\$2,118	\$12	\$0		\$327	\$3,602		
4.2.E - Lighting Plans												
4.2.E.A - Lighting Details												
		\$41.35	24	\$992	\$1,837	\$10	\$0		\$284	\$3,124		
Traffic Signal Design												
2.7.K - Signal Plans												
		\$40.00	15	\$600	\$1,111	\$6	\$0		\$172	\$1,889		
3.3.D - Signals & ITS												
3.3.D.A - Signal Plan Sheets												
		\$43.50	54	\$2,349	\$4,348	\$25	\$0		\$672	\$7,394		
3.3.D.B - Interconnect Details												
		\$45.43	16	\$727	\$1,346	\$8	\$0		\$208	\$2,288		
4.2.A.H - Signal Subsummary												
		\$41.77	32	\$1,337	\$2,474	\$14	\$0		\$382	\$4,207		
4.2.B - Traffic Signal Plans & ITS Plans												
4.2.B.A - Wiring diagram & pole orientation												
		\$39.90	21	\$838	\$1,551	\$9	\$0		\$240	\$2,638		
4.2.B.B - Timing Chart												
		\$42.73	17	\$726	\$1,345	\$8	\$0		\$208	\$2,287		
4.2.B.C - Elevation Views of Mast Arm Poles												
		\$41.65	11	\$458	\$848	\$5	\$0		\$131	\$1,442		
4.2.B.D - Traffic Signal Signs												
		\$40.51	8	\$324	\$600	\$3	\$0		\$93	\$1,020		
TOTAL IF-AUTHORIZED PARTS		\$42.84	692	\$29,642	\$54,874	\$311	\$0	\$12,402	\$8,477	\$105,707		
GRAND TOTAL			4471	\$195,417	\$361,755	\$2,052	\$2,628	\$181,937	\$55,885	\$799,674		

C-R-S		MOT-CLYO/DIMCO WAY IMPROVEMENTS			DIRECT COSTS							Version: Sept 2021
Consultant:	TEC ENGINEERING, INC.											
Agreement No.	-											
Modification No.	-											
PID No.	119553											
Proposal Date	7/26/2024											
Task Description	Unit Cost:	\$0.58	\$30.00	\$100.00								Total
AUTHORIZED TASKS:												
1 - Planning Phase												
		Units	Units	Units	Units	Units	Units	Units	Units	Units	Units	\$
1.3 - Existing Data, Research and Analysis												
1.3.B - Crash Analysis												
1.3.C - Traffic Counts												
1.3.C.A - Turning Movement Counts at Intersections - No Build												
1.3.C.B - Machine Counts on Roadways and Ramps - No Build												
1.3.C.C - Preliminary Coordination Meeting for Traffic Modeling												
1.3.D - Planning Level Traffic - No Build Condition												
1.3.F - Capacity Analysis - No Build Condition												
1.3.G - Safety Analysis - No Build Condition												
TOTAL 1.3 - Existing Data, Research and Analysis												
1.5 - Project Management for Planning Phase												
1.5.C - Project Set Up												
TOTAL 1.5 - Project Management for Planning Phase												
TOTAL 1 - Planning Phase												
2 - Preliminary Engineering Phase												
2.1 - Develop Preliminary Alternatives												
2.1.A - Prepare and Complete Feasibility Study Report												
2.1.A.A - Planning Level Traffic for Feasible (Build) Alternatives												
2.1.A.C - Capacity Analysis Feasible (Build) Alternative(s)												
2.1.A.D - Safety Analysis for Feasible (Build) Alternative(s)												
2.1.A.E - Field Survey and Aerial Mapping - Planning Level												
2.1.A.F - Typical Section												
2.1.A.G - Preliminary Alignment and Profile												
2.1.A.H - Cross-Sections												
2.1.A.I - Mapping												
2.1.A.J - Stakeholder Public Involvement												
2.1.A.K - Prepare Feasibility Study												
TOTAL 2.1 - Develop Preliminary Alternatives												
2.3 - AER Design												
2.3.A - Field Survey and Aerial Mapping												
2.3.A.A - Project Control, Benchmarks, and Reference Points												
2.3.A.A.2 - Type "B" Monument Specified												
2.3.A.B - Monumentation recovery												
2.3.A.B.1 - Existing Centerline and R/W												
2.3.A.B.2 - Property Lines (Used on projects with additional R/W)												
2.3.A.C - Base Mapping (incl. field verify.)												
2.3.A.C.2 - R/W Project												
2.3.A.D - Drainage Survey (stream cross sections)												
2.3.A.E - Bridge Survey												
2.3.A.F - Establish property lines, tax id, & ownerships on base map												
2.3.A.G - Property Owner Notification												
2.3.D - Traffic Control												
2.3.D.A - Documentation of Proprietary Bid Justification – Signals												

C-R-S		MOT-CLYO/DIMCO WAY IMPROVEMENTS			DIRECT COSTS							Version: Sept 2021
Consultant:	TEC ENGINEERING, INC.											
Agreement No.	-											
Modification No.	-											
PID No.	119553											
Proposal Date	7/26/2024											
Task Description	Unit Cost	Mileage	Traffic Count Proce	Plan Prints	Direct Cost 4	Direct Cost 5	Direct Cost 6	Direct Cost 7	Direct Cost 8	Direct Cost 9	Total	
2.3.E - Signals & ITS		\$0.58	\$30.00	\$100.00								
2.3.E.A - Signal Warrant Analysis											\$0.00	
2.3.G - Utilities												
2.3.G.A - Utility Coordination and Documentation											\$0.00	
2.3.H - Miscellaneous												
2.3.H.A - Identify and coordinate impacts on FEMA flood zones											\$0.00	
TOTAL 2.3 - AER Design		240	0	0	0	0	0	0	0	0	\$139.20	
2.4 - Prepare Cost Estimates												
2.4.A - Roadway/Interchange Costs											\$0.00	
2.4.B - Right of Way Costs											\$0.00	
TOTAL 2.4 - Prepare Cost Estimates		0	0	0	0	0	0	0	0	0	\$0.00	
2.7 - Stage 1 Design												
2.7.A - Roadway												
2.7.A.A - Title Sheet											\$0.00	
2.7.A.B - Schematic Plan											\$0.00	
2.7.A.D - General Notes											\$0.00	
2.7.A.E - Typical Sections											\$0.00	
2.7.A.F - Cross Sections											\$0.00	
2.7.A.G - Plan and Profile - Mainline											\$0.00	
2.7.A.H - Plan and Profile - Crossroads											\$0.00	
2.7.A.K - Intersection Details											\$0.00	
2.7.A.L - Curb Ramp Details											\$0.00	
2.7.A.N - Driveway Details											\$0.00	
2.7.A.P - Traffic Control											\$0.00	
2.7.B - Drainage												
2.7.B.A - Storm Sewer Profiles											\$0.00	
2.7.B.D.2 - Drainage Calculations - Ditches											\$0.00	
2.7.B.D.3 - Drainage Calculations - Storm Sewer/Inlet Spacing											\$0.00	
2.7.B.E - BMP Design											\$0.00	
2.7.C - Utilities												
2.7.C.A - Utility Coordination and Documentation											\$0.00	
2.7.C.D - Add Utilities to Plan/Profile Sheets											\$0.00	
2.7.D - Geotechnical Services												
2.7.D.A - Geotechnical Services and Report (MSG)											\$0.00	
2.7.H - Prepare C2 Cost Estimates and Update Milestones												
2.7.H.A - Roadway/Interchange Costs											\$0.00	
2.7.J - Maintenance of Traffic												
2.7.J.A - Detour Plan											\$0.00	
2.7.J.C - Conceptual MOT Revision											\$0.00	
2.7.J.D - MOT Coordination Discussions											\$0.00	
TOTAL - 2.7 - Stage 1 Design		0	0	0	0	0	0	0	0	0	\$0.00	
2.8 - Project Management for Preliminary Engineering Phase												
2.8.A - Meetings											\$0.00	
2.8.B - General Oversight		40		1							\$123.20	
TOTAL 2.8 - Project Management for		40	0	1	0	0	0	0	0	0	\$123.20	
Total - 2 Preliminary Engineering Phase		280	0	1	0	0	0	0	0	0	\$262.40	

C-R-S		MOT-CLYO/DIMCO WAY IMPROVEMENTS			DIRECT COSTS							Version: Sept 2021	
Consultant:		TEC ENGINEERING, INC.											
Agreement No.		-											
Modification No.		-											
PID No.		119553											
Proposal Date		7/26/2024											
Task Description	Unit Cost	Mileage	Traffic Count Proce	Plan Prints	Direct Cost 4	Direct Cost 5	Direct Cost 6	Direct Cost 7	Direct Cost 8	Direct Cost 9	Total		
3 - Environmental Engineering Phase													
3.3 - Stage2													
3.3.A - Roadway													
3.3.A.A - Title Sheet												\$0.00	
3.3.A.B - Schematic												\$0.00	
3.3.A.D - General Notes												\$0.00	
3.3.A.E - Typical Sections												\$0.00	
3.3.A.F - Plan and Profile - Mainline												\$0.00	
3.3.A.G - Plan and Profile - Crossroads												\$0.00	
3.3.A.I - Cross Sections												\$0.00	
3.3.A.J - Intersection Details												\$0.00	
3.3.A.L - Curb Ramp Details												\$0.00	
3.3.B - Drainage													
3.3.B.A - Storm Sewer Profiles												\$0.00	
3.3.B.D - Underdrain details												\$0.00	
3.3.B.E - BMP Details												\$0.00	
3.3.C - Traffic Control													
3.3.C.A - Pavement Marking Plan												\$0.00	
3.3.C.B - Signing Plan												\$0.00	
3.3.E - Maintenance of Traffic													
3.3.E.A - MOT General Notes												\$0.00	
3.3.E.D - Temporary Signing Details												\$0.00	
3.3.E.E - MOT Typical Sections												\$0.00	
3.3.E.F - MOT Plan Sheets												\$0.00	
3.3.E.G - Temporary Signal Details (Modification of Existing or												\$0.00	
3.3.E.G.1 - Temporary Signal Details (Modification of Existing or												\$0.00	
3.3.J - Utilities													
3.3.J.A - Utility Coordination and Documentation												\$0.00	
3.3.K - Geotechnical Services													
3.3.K.A - Finalize Geotechnical Investigation and Report (MSG)												\$0.00	
TOTAL 3.3 - Stage2		0	0	0	0	0	0	0	0	0	0	\$0.00	
3.4 - Right of Way Plans													
3.4.B - Preliminary Right of Way Plans													
3.4.B.A - Legend Sheet												\$0.00	
3.4.B.B - Centerline Survey Plat												\$0.00	
3.4.B.C - Property Map												\$0.00	
3.4.B.D - Summary of Additional Right of Way												\$0.00	
3.4.B.E - ROW Detail Sheets												\$0.00	
3.4.B.G - Legal Descriptions and Closure Calculations												\$0.00	
3.4.B.I - Field Review		40										\$23.20	
3.4.C - Final Right of Way Plans													
3.4.C.A - Final Right of Way Plan Sheets and Legal Descriptions				1								\$100.00	
3.4.C.B - Field Review & Verify Property Owners												\$0.00	
3.4.C.C - Record Centerline Plat and all appropriate documents												\$0.00	
3.4.C.D - Set R/W Pins after acquisition												\$0.00	
TOTAL 3.4 - Right of Way Plans		40	0	1	0	0	0	0	0	0	0	\$123.20	
3.8 - Prepare Cost Estimates and Revise Milestone													
3.8.A - Roadway/Interchange Costs													
TOTAL 3.8 - Prepare Cost Estimates and Revise Milestone		0	0	0	0	0	0	0	0	0	0	\$0.00	

C-R-S		MOT-CLYO/DIMCO WAY IMPROVEMENTS			DIRECT COSTS							Version: Sept 2021	
Consultant:		TEC ENGINEERING, INC.											
Agreement No.		-											
Modification No.		-											
PID No.		119553											
Proposal Date		7/26/2024											
Task Description		Unit Cost	Mileage	Traffic Count Proce	Plan Prints	Direct Cost 4	Direct Cost 5	Direct Cost 6	Direct Cost 7	Direct Cost 8	Direct Cost 9	Total	
3.9 - Project Management for Environmental Engineering Phase													
3.9.A - Meetings												\$0.00	
3.9.B - General Oversight			40		1							\$123.20	
TOTAL 3.9 - Project Management for			40	0	1	0	0	0	0	0	0	\$123.20	
Total - 3 Environmental Engineering Phase			80	0	2	0	0	0	0	0	0	\$246.40	
4 - Final Engineering and R/W Phase													
4.1 - Right of Way Acquisition													
4.1.A - Right of Way Acquisition												\$0.00	
TOTAL 4.1 - Right of Way Acquisition			0	0	0	0	0	0	0	0	0	\$0.00	
4.2 - Stage 3 Detailed Design Plans													
4.2.A - Quantities and Notes													
4.2.A.A - Pavement Subsummary												\$0.00	
4.2.A.B - Drainage Subsummary												\$0.00	
4.2.A.C - Roadway Subsummary												\$0.00	
4.2.A.E - Maintenance of Traffic Subsummary												\$0.00	
4.2.A.F - Pavement Marking Subsummary												\$0.00	
4.2.A.G - Signing Subsummary												\$0.00	
4.2.A.M - General Summary Sheet												\$0.00	
4.2.A.P - General Notes												\$0.00	
TOTAL 4.2 - Stage 3 Detailed Design Plans			0	0	0	0	0	0	0	0	0	\$0.00	
4.3 - Prepare Cost Estimates and Revise Milestone													
4.3.A - Roadway/Interchange Costs												\$0.00	
TOTAL 4.3 - Prepare Cost Estimates and Revise Milestone			0	0	0	0	0	0	0	0	0	\$0.00	
4.4 - Final Plan Package													
4.4.A - Submission of Final Tracings and Documentation					1							\$100.00	
4.4 - Final Plan Package			0	0	1	0	0	0	0	0	0	\$100.00	
4.5 - Project Management for Final Engineering and Right of Way													
4.5.A - Meetings												\$0.00	
4.5.B - General Oversight			40									\$23.20	
TOTAL 4.5 - Project Management for Final Engineering and Right of			40	0	0	0	0	0	0	0	0	\$23.20	
4.6 - Pre-Bid Activities													
4.6.A - Pre-Bid Questions												\$0.00	
TOTAL 4.6 - Pre-Bid Activities			0	0	0	0	0	0	0	0	0	\$0.00	
TOTAL - Final Engineering Phase			40	0	1	0	0	0	0	0	0	\$123.20	
5 - Construction Phase													
5.1 - On-going Services during Construction													
5.1.A - On-going Services During Construction												\$0.00	
TOTAL 5.1 - On-going Services during Construction			0	0	0	0	0	0	0	0	0	\$0.00	

C-R-S		MOT-CLYO/DIMCO WAY IMPROVEMENTS			DIRECT COSTS							Version: Sept 2021	
Consultant:		TEC ENGINEERING, INC.											
Agreement No.		-											
Modification No.		-											
PID No.		119553											
Proposal Date		7/26/2024											
Task Description	Unit Cost	Mileage	Traffic Count Probe	Plan Prints	Direct Cost 4	Direct Cost 5	Direct Cost 6	Direct Cost 7	Direct Cost 8	Direct Cost 9	Total		
TOTAL - Construction Phase #####												\$0.00	
TOTAL AUTHORIZED PARTS		480	65	4	0	0	0	0	0	0	\$2,628		
IF-AUTHORIZED TASKS:													
Certified Traffic													
2.1.A.B - Certified Traffic Feasible (Build) Alternative(s)											\$0.00		
Additional Environmental Support													
2.2.C - Ecological Survey Report - Level 1											\$0.00		
Permit Determination Request (PDR)											\$0.00		
3.1.M - Waterway Permit - Section 404											\$0.00		
Water and Sanitary Design													
2.7.C.B - Description of proposed water and/or sewer work											\$0.00		
3.3.J.B - Water Works Plan											\$0.00		
3.3.J.C - Water Works Details & Notes											\$0.00		
3.3.J.D - Sanitary Sewer Plans											\$0.00		
Lighting Design													
2.7.I - Lighting Plans											\$0.00		
3.3.F - Lighting Plan													
3.3.F.A - Lighting Analysis											\$0.00		
3.3.F.B - Power/Circuit Layout & Details											\$0.00		
3.3.F.C - Lighting Plan and Details											\$0.00		
3.3.F.D - Voltage Drop Calculations											\$0.00		
3.3.F.E - Power Service											\$0.00		
4.2.A.K - Lighting Subsummary											\$0.00		
4.2.A.R - Lighting Notes											\$0.00		
4.2.E - Lighting Plans													
4.2.E.A - Lighting Details											\$0.00		
Traffic Signal Design													
2.7.K - Signal Plans											\$0.00		
3.3.D - Signals & ITS													
3.3.D.A - Signal Plan Sheets											\$0.00		
3.3.D.B - Interconnect Details											\$0.00		
4.2.A.H - Signal Subsummary											\$0.00		
4.2.B - Traffic Signal Plans & ITS Plans													
4.2.B.A - Wiring diagram & pole orientation											\$0.00		
4.2.B.B - Timing Chart											\$0.00		
4.2.B.C - Elevation Views of Mast Arm Poles											\$0.00		
4.2.B.D - Traffic Signal Signs											\$0.00		
TOTAL IF-AUTHORIZED PARTS		0	0	0	0	0	0	0	0	0	\$0.00		
GRAND TOTAL		480	65	4	0	0	0	0	0	0	\$2,628		

C-R-S	MOT-CLYO/DIMCO WAY IMPROVEMENTS	
Consultant:	TEC ENGINEERING, INC.	
Agreement No.	-	
Modification No.	-	
PID No.	119553	
Proposal Date	7/26/2024	
	7/22/2024	
Task Description	If-Authorized	Narrative
		Add Narratives as needed here
1.3 - Existing Data, Research and Analysis		
1.3.B - Crash Analysis		Identify any patterns based on crash data, AADT, or roadway characteristics (curvature, roadside barrier, signs and pavement markings) that should be noted. From this information, countermeasures can be selected and included in the project/feasibility study.
1.3.C - Traffic Counts		
1.3.C.A - Turning Movement Counts at Intersections - No Build		13 hour Vehicle and Pedestrian Turning Movement Counts will be completed at the following project intersections for use in FS analysis and traffic projections: - Clyo & St. Leonard Access - Clyo & Dimco Way - Clyo & Quaker Way - Clyo & Ole Quaker Court - Clyo & Franklin
1.3.C.B - Machine Counts on Roadways and Ramps - No Build		Bi-directional Mechanical ADT counts will be collected at one location on Clyo Road within the project limits
1.3.C.C - Preliminary Coordination Meeting for Traffic Modeling		Preliminary Coordination Meeting to determine forecasting needs for the project.
1.3.D - Planning Level Traffic - No Build Condition		TEC will use forecasting method determined in the coordination meeting to development future traffic.
1.3.F - Capacity Analysis - No Build Condition		HCS will be used to analyze capacity for the No Build condition at the project intersection. OATS manual will be followed.
1.3.G - Safety Analysis - No Build Condition		ECAT analysis for the No Build Conditions will be completed.
1.5 - Project Management for Planning Phase		
1.5.C - Project Set Up		This task includes effort related to task development, allocated budget/ fee for various tasks along with the schedule to determine project resource needs and assignments. Preparation and execution of subconsultant agreements.
2.1 - Develop Preliminary Alternatives		
2.1.A - Prepare and Complete Feasibility Study Report		
2.1.A.A - Planning Level Traffic for Feasible (Build) Alternatives		Incorporation of new Dimco Way traffic into the forecasting data and development of future traffic volumes
2.1.A.C - Capacity Analysis Feasible (Build) Alternative(s)		HCS will be used to analyze capacity for the Build alternatives at the project intersection. OATS manual will be followed.
2.1.A.D - Safety Analysis for Feasible (Build) Alternative(s)		ECAT analysis for the Build Conditions will be completed.
2.1.A.E - Field Survey and Aerial Mapping - Planning Level		Intersection sight distance analysis will also be completed as a part of this task.
2.1.A.F - Typical Section		
2.1.A.G - Preliminary Alignment and Profile		TEC will develop alternate alignments and intersection configurations (assumed 2 Clyo Road alignment options and 2 intersection configurations)
2.1.A.H - Cross-Sections		
2.1.A.I - Mapping		
2.1.A.J - Stakeholder Public Involvement		An enhanced mailing with public meeting-style materials shall prepared and sent to all potential stakeholders. Comments received from the public shall be provided to ODOT for inclusion in the Environmental Document.
2.1.A.K - Prepare Feasibility Study		The required feasibility study will include roundabout and signalized options for the intersection. Additionally, the vertical alignment will need to be studied around the Southernmost portion of the route on Clyo Road. Underground utility work will be studied as well, including water main relocation and storm sewer installation. The alternatives in the Feasibility Study shall be evaluated for the ability to meet the purpose and need elements: safety and efficiency of turning movements and improved bicycle and pedestrian access. The alternative in the Feasibility Study shall also be evaluated on the ability to address key issues, including at a minimum: right of way impacts, utility impacts, drainage, visibility, constructability, public input, and cost.
2.3 - AER Design		
2.3.A - Field Survey and Aerial Mapping		
2.3.A.A - Project Control, Benchmarks, and Reference Points		
2.3.A.B - Monumentation recovery		2500' of roadway with 10 parcels for property lines
2.3.A.C - Base Mapping (incl. field verify.)		Topo survey and basemapping for full project limits.
2.3.D - Traffic Control		
2.3.D.A - Documentation of Proprietary Bid Justification – Signals		TEC will prepare the required request and justification letter for submission by the maintaining agency to the Office of Traffic Engineering (OTE) with a copy to the appropriate District. The request contents shall be in accordance with TEM, Section 120-4. This letter will cover proprietary traffic signal items.
2.3.E - Signals & ITS		
2.3.E.A - Signal Warrant Analysis		Signal warrant analysis for traffic signal option. To be used in feasibility study findings.
2.3.G - Utilities		
2.3.G.A - Utility Coordination and Documentation		Initial utility coordination activities.
2.3.H - Miscellaneous		
2.3.H.A - Identify and coordinate impacts on FEMA flood zones		TEC will analyze and document all proposed encroachments into FEMA flood zones.
2.4 - Prepare Cost Estimates		
2.4.A - Roadway/Interchange Costs		Preliminary Roadway costs
2.4.B - Right of Way Costs		Preliminary ROW costs will be developed for each alternate for use in the feasibility study. Sub consultant OR Colan will assist in ROW cost estimation.

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Proposal Date	7/26/2024	
	7/22/2024	
Task Description	If-Authorized	Narrative
2.7 - Stage 1 Design		
2.7.A - Roadway		
2.7.A.A - Title Sheet		
2.7.A.B - Schematic Plan		
2.7.A.D - General Notes		
2.7.A.E - Typical Sections		
2.7.A.F - Cross Sections		
2.7.A.G - Plan and Profile - Mainline		
2.7.A.H - Plan and Profile - Crossroads		
2.7.A.K - Intersection Details		
2.7.A.L - Curb Ramp Details		
2.7.A.N - Driveway Details		
2.7.A.P - Traffic Control		
2.7.B - Drainage		
2.7.B.A - Storm Sewer Profiles		
2.7.B.D.2 - Drainage Calculations - Ditches		
2.7.B.D.3 - Drainage Calculations - Storm Sewer/Inlet Spacing		
2.7.B.E - BMP Design		
2.7.C - Utilities		
2.7.C.A - Utility Coordination and Documentation		
2.7.C.D - Add Utilities to Plan/Profile Sheets		
2.7.D - Geotechnical Services		
2.7.D.A - Geotechnical Services and Report (MSG)		Drill and sample at ten (10) proposed locations. Borings will be located near the beginning and end of the pavement replacement area and approximately every 400 feet within the proposed replacement area. Additionally, two borings will be completed within proposed signal pole areas. ODOT Type A soil borings will be completed for pavement design and will be advanced to a maximum depth of approximately 7 feet below ground surface. ODOT Type E soil borings will be completed for the signal pole foundation and will be advanced to a maximum depth of approximately 25 feet below ground surface. Standard penetration testing will be completed continuously to a depth of 6 feet below the existing pavement subgrade surface for Type A borings and at 2.5 - foot interval to the bottom of the borings for Type E borings.
2.7.H - Prepare C2 Cost Estimates and Update Milestones		
2.7.H.A - Roadway/Interchange Costs		
2.7.J - Maintenance of Traffic		
2.7.J.A - Detour Plan		
2.7.J.C - Conceptual MOT Revision		
2.7.J.D - MOT Coordination Discussions		
2.8 - Project Management for Preliminary Engineering Phase		
2.8.A - Meetings		Meetings throughout Preliminary Engineering Phase
2.8.B - General Oversight		Weekly and Monthly PM duties and subconsultant coordination. Client coordination – responding to email and phone requests from the client and client partners.
3.3 - Stage2		
3.3.A - Roadway		
3.3.A.A - Title Sheet		
3.3.A.B - Schematic		
3.3.A.D - General Notes		
3.3.A.E - Typical Sections		
3.3.A.F- Plan and Profile - Mainline		
3.3.A.G - Plan and Profile - Crossroads		
3.3.A.I - Cross Sections		
3.3.A.J - Intersection Details		
3.3.A.L - Curb Ramp Details		
3.3.B - Drainage		
3.3.B.A - Storm Sewer Profiles		
3.3.B.D - Underdrain details		
3.3.B.E - BMP Details		
3.3.C - Traffic Control		
3.3.C.A - Pavement Marking Plan		Combined pavement marking and signage plan proposed.
3.3.C.B - Signing Plan		
3.3.E - Maintenance of Traffic		
3.3.E.A - MOT General Notes		
3.3.E.E - MOT Typical Sections		
3.3.E.F - MOT Plan Sheets		Assume 3 MOT phases for construction
3.3.E.G - Temporary Signal Details (Modification of Existing or Proposed Signal)		
3.3.E.G.1 - Temporary Signal Details (Modification of Existing or		1 signal - 2 phases
3.3.J - Utilities		
3.3.J.A - Utility Coordination and Documentation		
3.3.K - Geotechnical Services		

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Proposal Date	7/26/2024	
	7/22/2024	
Task Description	If-Authorized	Narrative
3.3.K.A - Finalize Geotechnical Investigation and Report (MSG)		MSG will submit final versions of the geotechnical report and Roadway soil profile sheets after addressing any comments regarding the draft submittals and making the appropriate revisions.
3.4 - Right of Way Plans		
3.4.B - Preliminary Right of Way Plans		
3.4.B.A - Legend Sheet		ROW plans will be developed per ODOT standards. Hours based on 13 total takes as noted in the LPA scope. (3 permanent and 10 temporary).
3.4.B.B - Centerline Survey Plat		
3.4.B.C - Property Map		
3.4.B.D - Summary of Additional Right of Way		
3.4.B.E - ROW Detail Sheets		
3.4.B.G - Legal Descriptions and Closure Calculations		
3.4.B.I - Field Review		
3.4.C - Final Right of Way Plans		
3.4.C.A - Final Right of Way Plan Sheets and Legal Descriptions		
3.4.C.B - Field Review & Verify Property Owners		
3.4.C.C - Record Centerline Plat and all appropriate documents		
3.4.C.D - Set R/W Pins after acquisition		
3.8 - Prepare Cost Estimates and Revise Milestone		
3.8.A - Roadway/Interchange Costs		
3.9 - Project Management for Environmental Engineering Phase		
3.9.A - Meetings		Meetings throughout Environmental Engineering Phase
3.9.B - General Oversight		Weekly and Monthly PM duties and subconsultant coordination. Client coordination – responding to email and phone requests from the client and client partners.
4.1 - Right of Way Acquisition		
4.1.A - Right of Way Acquisition (OR Colan)		Acquisition costs based on 3 permanent and 10 temporary takes. Work to be completed by OR Colan.
4.2 - Stage 3 Detailed Design Plans		
4.2.A - Quantities and Notes		
4.2.A.A - Pavement Subsummary		
4.2.A.B - Drainage Subsummary		
4.2.A.C - Roadway Subsummary		
4.2.A.E - Maintenance of Traffic Subsummary		
4.2.A.F - Pavement Marking Subsummary		
4.2.A.G - Signing Subsummary		
4.2.A.M - General Summary Sheet		
4.2.A.P - General Notes		
4.3 - Prepare Cost Estimates and Revise Milestone		
4.3.A - Roadway/Interchange Costs		
4.4 - Final Plan Package		
4.4.A - Submission of Final Tracings and Documentation		
4.5 - Project Management for Final Engineering and Right of Way Phase		
4.5.A - Meetings		Meetings throughout Final Engineering Phase
4.5.B - General Oversight		Weekly and Monthly PM duties and subconsultant coordination. Client coordination – responding to email and phone requests from the client and client partners.
4.6 - Pre-Bid Activities		
4.6.A - Pre-Bid Questions		
5.1 - On-going Services during Construction		
5.1.A - On-going Services During Construction		Shop drawing reviews

C-R-S		MOT-CLYO/DIMCO WAY IMPROVEMENTS	
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PID No.	119553		
Proposal Date	7/26/2024		
		7/22/2024	
Task Description			Narrative
IF AUTHORIZED TASKS			
2.1.A.B - Certified Traffic Feasible (Build) Alternative(s)		X	Certified Traffic Development (if required)
2.2.C - Ecological Survey Report - Level 1 (Lawhon)		X	Lawhon & Associates will copy a level 1 ecological survey report.
Permit Determination Request (PDR) (Lawhon)		X	This task will include preparation of the PDR package based upon Stage 2-level plans with ecological resources identified.(Lawhon)
3.1.M - Waterway Permit - Section 404 NWP PCN (Lawhon)		X	This task involves preparation of a PCN if required.(Lawhon)
2.7.C.B - Description of proposed water and/or sewer work		X	If authorized task for water and sanitary sewer relocation design
3.3.J.B - Water Works Plan		X	If authorized task for water relocation design
3.3.J.C - Water Works Details & Notes		X	If authorized task for water relocation design
3.3.J.D - Sanitary Sewer Plans		X	If authorized task for sanitary sewer relocation design
2.7.1 - Lighting Plans		X	Intersection lighting plans will be developed for the final preferred alternative at the intersection of Clyo & Dimco Way plus limited lighting at Clyo & Quaker Court to maintain existing lighting.
3.3.F - Lighting Plan			
3.3.F.A - Lighting Analysis		X	Photometric analysis of intersection lighting at Clyo & Dimco and Clyo & Quaker Ct.
3.3.F.B - Power/Circuit Layout & Details		X	
3.3.F.C - Lighting Plan and Details		X	
3.3.F.D - Voltage Drop Calculations		X	
3.3.F.E - Power Service		X	
4.2.A.K - Lighting Subsummary		X	
4.2.A.R - Lighting Notes		X	
4.2.E - Lighting Plans			
4.2.E.A - Lighting Details		X	
2.7.K - Signal Plans		X	Time for traffic signal design work (if determined to be preferred option)
3.3.D - Signals & ITS			
3.3.D.A - Signal Plan Sheets		X	Time for traffic signal design work (if determined to be preferred option)
3.3.D.B - Interconnect Details		X	Time for traffic signal design work (if determined to be preferred option)
4.2.A.H - Signal Subsummary		X	Time for traffic signal design work (if determined to be preferred option)
4.2.B - Traffic Signal Plans & ITS Plans			
4.2.B.A - Wiring diagram & pole orientation		X	Time for traffic signal design work (if determined to be preferred option)
4.2.B.B - Timing Chart		X	Time for traffic signal design work (if determined to be preferred option)
4.2.B.C - Elevation Views of Mast Arm Poles		X	Time for traffic signal design work (if determined to be preferred option)
4.2.B.D - Traffic Signal Signs		X	Time for traffic signal design work (if determined to be preferred option)