

## **ORDINANCE NO. 24-049**

**AN ORDINANCE AUTHORIZING AND DIRECTING THE CITY MANAGER TO ENTER INTO AN AMENDMENT TO THE AGREEMENT FOR PROFESSIONAL DESIGN SERVICES WITH BRAMHALL ENGINEERING & SURVEYING COMPANY OF AVON, OHIO, FOR THE EAST PERKINS AVENUE 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 East Perkins Avenue Resurfacing Project by Resolution No. 011-20R, passed on March 23, 2020; and

**WHEREAS**, the East Perkins Avenue Resurfacing Project area is located just east of the Milan Road intersection and continues to the Remington Avenue intersection and consists of milling existing pavements, resurfacing with intermediate and surface courses of asphalt, full depth and partial depth base repairs, as needed, limited curb and gutter improvements, adjustments of manholes, catch basins and valve boxes, new ADA curb ramps and pavement markings, and includes extending the sidewalk on the north side of the roadway from Balconi Monuments to Remington Avenue, connecting pedestrians on the east side of town to the U.S. Route 250 business corridor; and

**WHEREAS**, the City Commission approved an agreement for Professional Design Services with Bramhall Engineering & Surveying Company of Avon, Ohio, for the East Perkins Avenue Resurfacing Project by Ordinance No. 22-233, passed on November 28, 2022; and

**WHEREAS**, Bramhall Engineering & Surveying Company will be providing additional professional design services for the East Perkins Avenue 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 original cost of the professional design services was \$171,160.00 and with this amendment in the amount of \$7,949.00, the total revised cost is \$179,109.00 and the cost of the amendment will be paid with Federal Highway Administration (FHWA) funds through the Ohio Department of Transportation (ODOT) and the Erie County Metropolitan Planning Organization (MPO) in the amount of \$6,359.20 and the remaining balance of \$1,589.80 will be paid with Capital Projects Street Funds; 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 continue with the work and keep the project on track for ODOT milestones and funding deadlines; 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

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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 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 Amendment to the Agreement with Bramhall Engineering & Surveying Company of Avon, Ohio, for Professional Design Services for the East Perkins Avenue Resurfacing Project, PID #113959, 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** Seven Thousand Nine Hundred Forty-Nine and 00/100 Dollars (\$7,949.00), resulting in a revised total not to exceed One Hundred Seventy-Nine Thousand One Hundred Nine and 00/100 Dollars (\$179,109.00).

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  
CLERK OF THE CITY COMMISSION

Passed: February 26, 2024

City of Sandusky

Agreement Number 38430

This Agreement No. 38430 instated on the \_\_\_\_ of \_\_\_\_\_, 2024 by and between City of Sandusky, hereinafter referred to as the City, and Bramhall Engineering and Surveying Company, hereinafter referred to as the Consultant, with an office located at 801 Moore Rd, Avon, OH 44011.

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 perform the design as authorized by the City for resurfacing of Perkins Ave, including adding sidewalks and curbs, in Erie County, Ohio, identified as ERI-CR 5-2.85 E. Perkins.

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).

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

Actual costs plus a fixed fee of seven thousand seventy-five dollars (\$7,075). However, the maximum prime compensation shall not exceed seventy-two thousand, one hundred sixty-three dollars (\$72,163).

Part 2: Environmental Engineering Phase

Actual costs plus a fixed fee of six thousand thirty-five dollars (\$6,035). However, the maximum prime compensation shall not exceed fifty-four thousand, one hundred twenty-seven dollars (\$54,127).

**Part 3: Final Engineering Phase and R/W Phase**

Actual costs plus a fixed fee of one thousand, two hundred forty-seven dollars (\$1,247). However, the maximum prime compensation shall not exceed thirty-nine thousand, seven hundred eighty dollars (\$39,780)

**Part 4: Prebid Activities (if authorized)**

Actual costs plus a fixed fee per hour worked as authorized for each Group delineated below. The maximum prime compensation shall not exceed two thousand, five hundred dollars (\$2,500). All costs shall be included in the maximum prime compensation.

| <u>Group</u> | <u>Fixed Fee</u> |
|--------------|------------------|
| 9            | \$ 14.86         |
| 8            | \$ 13.44         |
| 7            | \$ 12.03         |
| 7            | \$ 12.03         |
| 3            | \$ 6.37          |
| 5            | \$ 9.20          |
| 4            | \$ 7.78          |
| 3            | \$ 6.37          |
| 2            | \$ 4.95          |

**Part 5: ROW Activities from Plan Revisions (if authorized)**

Actual costs plus a fixed fee of six hundred nineteen dollars (\$619). However, the maximum prime compensation shall not exceed five thousand, five hundred thirty-nine dollars (\$5,539).

| <u>Group</u> | <u>Fixed Fee</u> |
|--------------|------------------|
| 9            | \$ 14.86         |
| 8            | \$ 13.44         |
| 7            | \$ 12.03         |
| 7            | \$ 12.03         |
| 3            | \$ 6.37          |
| 5            | \$ 9.20          |
| 4            | \$ 7.78          |
| 3            | \$ 6.37          |
| 2            | \$ 4.95          |

**Part 6: Ongoing Services During Construction (if authorized)**

Actual costs plus a fixed fee per hour worked as authorized for each Group delineated below. The maximum prime compensation shall not exceed five thousand dollars (\$5,000). All costs shall be included in the maximum prime compensation.

| <u>Group</u> | <u>Fixed Fee</u> |
|--------------|------------------|
| 9            | \$ 14.86         |
| 8            | \$ 13.44         |
| 7            | \$ 12.03         |
| 7            | \$ 12.03         |
| 3            | \$ 6.37          |
| 5            | \$ 9.20          |
| 4            | \$ 7.78          |
| 3            | \$ 6.37          |
| 2            | \$ 4.95          |
| 2            | \$ 4.95          |

#### 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, signing parties expressly understand 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 the Consultant and the signature of the City Manager of the City of Sandusky.

Bramhall Engineering and Surveying Company

By: 

Title: Vice President

City of Sandusky

\_\_\_\_\_

City Manager

APPROVED AS TO FORM:

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

Title: \_\_\_\_\_

EXHIBIT "A"

# MODIFICATION #1 FEE PROPOSAL

EXHIBIT "A"

## SUMMARY OF STEPS

|    | A   | C           | D           | E           | F   | G                             | H            | I            | J       | K          |
|----|---|-------------|-------------|-------------|---|-------------------------------|--------------|--------------|---------|------------|
| 1  | ENGINEERING AND TECHNICAL SERVICE COST PRICE PROPOSAL                                       |             |             |             |   |                               |              |              |         |            |
| 2  | AND LABOR RATES FOR   |             |             |             |   |                               |              |              |         |            |
| 3  | Project: ERI-Perkins Avenue   |             |             |             |   |                               |              |              |         |            |
| 4  | PID No. 113959  |             |             |             |   |                               |              |              |         |            |
| 5  |   |             |             |             |   |                               |              |              |         |            |
| 6  |   |             |             |             |   |                               |              |              |         |            |
| 7  | CONSULTANT: Bramhall Engineering and Surveying Company                                      |             |             |             |   | Proposal Date: 6/23/2022      |              |              |         |            |
| 8  |   |             |             |             |   | Revised Date: 8/23/2022       |              |              |         |            |
| 9  |   |             |             |             |   | Modification Date: 10/25/2023 |              |              |         |            |
| 10 | PROJECT DESCRIPTION: Roadway Resurfacing, Sidewalk Installation, and Waterline Installation |             |             |             |   |                               |              |              |         |            |
| 11 |   |             |             |             |   |                               |              |              |         |            |
| 12 | Task included in Modification #1  |             |             |             | Average Overhead Rate = 157.79% (Net Fee Calc.) |                               |              |              |         |            |
| 13 |   |             |             |             | Overhead Percentage = 128.69%                   |                               |              |              |         |            |
| 14 |   |             |             |             | Net Fee Percentage = 11.00%                     |                               |              |              |         |            |
| 15 |   |             |             |             | Cost of Money = 0.22%                           |                               |              |              |         |            |
| 16 |   |             |             |             |   |                               |              |              |         |            |
| 17 |   |             |             |             |   |                               |              |              |         |            |
| 18 | Task Description  | Hourly Rate | Total Hours | Labor Costs | Overhead Costs                                  | Cost of Money                 | Direct Costs | Subcon Costs | Net Fee | Total Cost |
| 19 | Phase I - Planning Phase  |             |             |             |   |                               |              |              |         |            |
| 20 |   |             |             |             |   |                               |              |              |         |            |
| 21 |   |             |             |             |   |                               |              |              |         |            |
| 22 | Task 1.1 Project Start-Up   |             |             |             |   |                               |              |              |         |            |
| 23 | 1.1.A Planning and Programming  | #DIV/0!     | 0           | \$0         | \$0   | \$0                           | \$0          | \$0          | \$0     | \$0        |
| 24 | 1.1.B STIP/TIP  | #DIV/0!     | 0           | \$0         | \$0   | \$0                           | \$0          | \$0          | \$0     | \$0        |
| 25 | 1.1.C Internal Meeting with Project Sponsor and ODOT Staff                                  | #DIV/0!     | 0           | \$0         | \$0   | \$0                           | \$0          | \$0          | \$0     | \$0        |
| 26 |   |             |             |             |   |                               |              |              |         |            |
| 27 | Subtotal 1.1 Project Start-Up   | #DIV/0!     | 0           | \$0         | \$0   | \$0                           | \$0          | \$0          | \$0     | \$0        |
| 28 |   |             |             |             |   |                               |              |              |         |            |
| 29 | Task 1.2 Project Initiation Package   |             |             |             |   |                               |              |              |         |            |
| 30 | 1.2.A Define Study Area and Logical Termini   | #DIV/0!     | 0           | \$0         | \$0   | \$0                           | \$0          | \$0          | \$0     | \$0        |
| 31 | 1.2.B Conduct Field Review (walk through)   | #DIV/0!     | 0           | \$0         | \$0   | \$0                           | \$0          | \$0          | \$0     | \$0        |
| 32 | 1.2.C Identify Discipline Specific Issues for Project Initiation Package                    | #DIV/0!     | 0           | \$0         | \$0   | \$0                           | \$0          | \$0          | \$0     | \$0        |
| 33 | 1.2.D Project Initiation Package Preparation and Submittal                                  | #DIV/0!     | 0           | \$0         | \$0   | \$0                           | \$0          | \$0          | \$0     | \$0        |
| 34 | 1.2.E Aerial/Base mapping coordination with ODOT  | #DIV/0!     | 0           | \$0         | \$0   | \$0                           | \$0          | \$0          | \$0     | \$0        |
| 35 | 1.2.F Concept, Scope, and Budget Estimates  | #DIV/0!     | 0           | \$0         | \$0   | \$0                           | \$0          | \$0          | \$0     | \$0        |
| 36 |   |             |             |             |   |                               |              |              |         |            |
| 37 | Subtotal 1.2 Project Initiation Package   | #DIV/0!     | 0           | \$0         | \$0   | \$0                           | \$0          | \$0          | \$0     | \$0        |
| 38 |   |             |             |             |   |                               |              |              |         |            |
| 39 | Task 1.3 Existing Data, Research, and Analysis  |             |             |             |   |                               |              |              |         |            |
| 40 | 1.3.A Transportation and Land Use Plans   | #DIV/0!     | 0           | \$0         | \$0   | \$0                           | \$0          | \$0          | \$0     | \$0        |
| 41 | 1.3.B Crash Analysis  | #DIV/0!     | 0           | \$0         | \$0   | \$0                           | \$0          | \$0          | \$0     | \$0        |
| 42 | 1.3.C Traffic Counts  | #DIV/0!     | 0           | \$0         | \$0   | \$0                           | \$0          | \$0          | \$0     | \$0        |
| 43 | 1.3.D Planning Level Traffic - No Build Condition   | #DIV/0!     | 0           | \$0         | \$0   | \$0                           | \$0          | \$0          | \$0     | \$0        |
| 44 | 1.3.E Certified Traffic - No Build Condition  | #DIV/0!     | 0           | \$0         | \$0   | \$0                           | \$0          | \$0          | \$0     | \$0        |
| 45 | 1.3.F Capacity Analysis - Existing Conditions   | #DIV/0!     | 0           | \$0         | \$0   | \$0                           | \$0          | \$0          | \$0     | \$0        |
| 46 | 1.3.G Develop Purpose & Need  | #DIV/0!     | 0           | \$0         | \$0   | \$0                           | \$0          | \$0          | \$0     | \$0        |
| 47 |   |             |             |             |   |                               |              |              |         |            |
| 48 | Subtotal 1.3 Existing Data, Research, and Analysis  | #DIV/0!     | 0           | \$0         | \$0   | \$0                           | \$0          | \$0          | \$0     | \$0        |
| 49 |   |             |             |             |   |                               |              |              |         |            |
| 50 | Task 1.4 Stakeholder Involvement and Public Involvement Plan                                |             |             |             |   |                               |              |              |         |            |
| 51 | 1.4.A Public Involvement Plan   | #DIV/0!     | 0           | \$0         | \$0   | \$0                           | \$0          | \$0          | \$0     | \$0        |
| 52 |   |             |             |             |   |                               |              |              |         |            |
| 53 | Subtotal 1.4 Stakeholder Involvement and PIP  | #DIV/0!     | 0           | \$0         | \$0   | \$0                           | \$0          | \$0          | \$0     | \$0        |
| 54 |   |             |             |             |   |                               |              |              |         |            |
| 55 | Task 1.5 Project Management for Planning Phase  |             |             |             |   |                               |              |              |         |            |
| 56 | 1.5.A Meetings  | #DIV/0!     | 0           | \$0         | \$0   | \$0                           | \$0          | \$0          | \$0     | \$0        |
| 57 | 1.5.B General Oversight   | #DIV/0!     | 0           | \$0         | \$0   | \$0                           | \$0          | \$0          | \$0     | \$0        |
| 58 | 1.5.C Project Set Up  | #DIV/0!     | 0           | \$0         | \$0   | \$0                           | \$0          | \$0          | \$0     | \$0        |
| 59 | 1.5.D Non Routine (Soft) Items  | #DIV/0!     | 0           | \$0         | \$0   | \$0                           | \$0          | \$0          | \$0     | \$0        |
| 60 |   |             |             |             |   |                               |              |              |         |            |
| 61 | Subtotal 1.5 Project Management for Planning Phase  | #DIV/0!     | 0           | \$0         | \$0   | \$0                           | \$0          | \$0          | \$0     | \$0        |
| 62 |   |             |             |             |   |                               |              |              |         |            |
| 63 | Task 1.6 Limited Review   |             |             |             |   |                               |              |              |         |            |
| 64 | 1.6.A QA/QC for Limited Review  | #DIV/0!     | 0           | \$0         | \$0   | \$0                           | \$0          | \$0          | \$0     | \$0        |
| 65 |   |             |             |             |   |                               |              |              |         |            |
| 66 | Subtotal 1.6 Subtotal Limited Review  | #DIV/0!     | 0           | \$0         | \$0   | \$0                           | \$0          | \$0          | \$0     | \$0        |
| 67 |   |             |             |             |   |                               |              |              |         |            |
| 68 | SUBTOTAL Phase 1  | #DIV/0!     | 0           | \$0         | \$0   | \$0                           | \$0          | \$0          | \$0     | \$0        |
| 69 |   |             |             |             |   |                               |              |              |         |            |
| 70 |   |             |             |             |   |                               |              |              |         |            |
| 71 |   |             |             |             |   |                               |              |              |         |            |
| 72 |   |             |             |             |   |                               |              |              |         |            |
| 73 | Phase 2 - Preliminary Engineering Phase   |             |             |             |   |                               |              |              |         |            |
| 74 |   |             |             |             |   |                               |              |              |         |            |
| 75 |   |             |             |             |   |                               |              |              |         |            |
| 76 | Task 2.1 Develop Preliminary Alternatives   |             |             |             |   |                               |              |              |         |            |
| 77 | 2.1.A Prepare Feasibility Study Report  | #DIV/0!     | 0           | \$0         | \$0   | \$0                           | \$0          | \$0          | \$0     | \$0        |
| 78 | 2.1.A.A Planning Level Traffic for Feasible Alternatives                                    | #DIV/0!     | 0           | \$0         | \$0   | \$0                           | \$0          | \$0          | \$0     | \$0        |
| 79 | 2.1.A.B Capacity Analysis for Alternatives  | #DIV/0!     | 0           | \$0         | \$0   | \$0                           | \$0          | \$0          | \$0     | \$0        |
| 80 | 2.1.A.C Field Survey and Aerial Mapping - Planning Level                                    | #DIV/0!     | 0           | \$0         | \$0   | \$0                           | \$0          | \$0          | \$0     | \$0        |
| 81 | 2.1.A.D Typical Section   | #DIV/0!     | 0           | \$0         | \$0   | \$0                           | \$0          | \$0          | \$0     | \$0        |
| 82 | 2.1.A.E Preliminary Alignment and Profile   | #DIV/0!     | 0           | \$0         | \$0   | \$0                           | \$0          | \$0          | \$0     | \$0        |

## SUMMARY OF STEPS

|     | A  | C           | D           | E           | F              | G             | H            | I            | J       | K          |
|-----|--|-------------|-------------|-------------|----------------|---------------|--------------|--------------|---------|------------|
|     | Task Description   | Hourly Rate | Total Hours | Labor Costs | Overhead Costs | Cost of Money | Direct Costs | Subcon Costs | Net Fee | Total Cost |
| 17  |  |             |             |             |                |               |              |              |         |            |
| 18  | Task Description   | Hourly Rate | Total Hours | Labor Costs | Overhead Costs | Cost of Money | Direct Costs | Subcon Costs | Net Fee | Total Cost |
| 83  | 2.1.A.F Cross-Sections   | #DIV/0!     | 0           | \$0         | \$0            | \$0           | \$0          | \$0          | \$0     | \$0        |
| 84  | 2.1.A.G Mapping  | #DIV/0!     | 0           | \$0         | \$0            | \$0           | \$0          | \$0          | \$0     | \$0        |
| 85  | 2.1.A.H Stakeholder Public Involvement                                 | #DIV/0!     | 0           | \$0         | \$0            | \$0           | \$0          | \$0          | \$0     | \$0        |
| 86  | 2.1.A.I Prepare Feasibility Study                                      | #DIV/0!     | 0           | \$0         | \$0            | \$0           | \$0          | \$0          | \$0     | \$0        |
| 87  |  |             |             |             |                |               |              |              |         |            |
| 88  | Subtotal 2.1 Develop Preliminary Alternatives                          | #DIV/0!     | 0           | \$0         | \$0            | \$0           | \$0          | \$0          | \$0     | \$0        |
| 89  |  |             |             |             |                |               |              |              |         |            |
| 90  |  |             |             |             |                |               |              |              |         |            |
| 91  | Task 2.2 Perform Environmental Field Studies                           |             |             |             |                |               |              |              |         |            |
| 92  | 2.2.A Property Owner Notification                                      | #DIV/0!     | 0           | \$0         | \$0            | \$0           | \$0          | \$0          | \$0     | \$0        |
| 93  | 2.2.B Phase I Cultural Resource History/Architecture Survey            | #DIV/0!     | 0           | \$0         | \$0            | \$0           | \$0          | \$0          | \$0     | \$0        |
| 94  | 2.2.C Ecological Survey Report   | #DIV/0!     | 0           | \$0         | \$0            | \$0           | \$0          | \$0          | \$0     | \$0        |
| 95  | 2.2.D Environmental Site Assessment Screening                          | #DIV/0!     | 0           | \$0         | \$0            | \$0           | \$0          | \$0          | \$0     | \$0        |
| 96  | 2.2.E Social and Economic Resources                                    | #DIV/0!     | 0           | \$0         | \$0            | \$0           | \$0          | \$0          | \$0     | \$0        |
| 97  | 2.2.F 4(f) determinations  | #DIV/0!     | 0           | \$0         | \$0            | \$0           | \$0          | \$0          | \$0     | \$0        |
| 98  | 2.2.G Noise Analysis   | #DIV/0!     | 0           | \$0         | \$0            | \$0           | \$0          | \$0          | \$0     | \$0        |
| 99  | 2.2.H Noise Analysis - Public Involvement                              | #DIV/0!     | 0           | \$0         | \$0            | \$0           | \$0          | \$0          | \$0     | \$0        |
| 100 |  |             |             |             |                |               |              |              |         |            |
| 101 | Subtotal 2.2 Perform Environmental Field Studies                       | #DIV/0!     | 0           | \$0         | \$0            | \$0           | \$0          | \$0          | \$0     | \$0        |
| 102 |  |             |             |             |                |               |              |              |         |            |
| 103 | Task 2.3 AER Design  |             |             |             |                |               |              |              |         |            |
| 104 | 2.3.A Field Survey and Aerial Mapping                                  |             |             |             |                |               |              |              |         |            |
| 105 | 2.3.A.A Project Control, Benchmarks, and Reference Points              | #DIV/0!     | 0           | \$0         | \$0            | \$0           | \$0          | \$0          | \$0     | \$0        |
| 106 | 2.3.A.B Monumentation Recovery   | \$58.00     | 7           | \$406       | \$522          | \$1           | \$0          | \$0          | \$115   | \$1,045    |
| 107 | 2.3.A.C Base Mapping (incl. field verify)                              | \$53.50     | 8           | \$428       | \$551          | \$1           | \$0          | \$0          | \$121   | \$1,101    |
| 108 | 2.3.A.D Drainage Survey (stream cross sections)                        | #DIV/0!     | 0           | \$0         | \$0            | \$0           | \$0          | \$0          | \$0     | \$0        |
| 109 | 2.3.A.E Establish property lines, tax ID, & ownerships on base map     | #DIV/0!     | 0           | \$0         | \$0            | \$0           | \$0          | \$0          | \$0     | \$0        |
| 110 | 2.3.A.F Property Owner Notification                                    | #DIV/0!     | 0           | \$0         | \$0            | \$0           | \$0          | \$0          | \$0     | \$0        |
| 111 |  |             |             |             |                |               |              |              |         |            |
| 112 | 2.3.B Roadway  | \$0.00      | 0           | \$0         | \$0            | \$0           | \$0          | \$0          | \$0     | \$0        |
| 113 | 2.3.B.A Design Criteria  | #DIV/0!     | 0           | \$0         | \$0            | \$0           | \$0          | \$0          | \$0     | \$0        |
| 114 | 2.3.B.B Conceptual Typical Sections                                    | #DIV/0!     | 0           | \$0         | \$0            | \$0           | \$0          | \$0          | \$0     | \$0        |
| 115 | 2.3.B.C Horizontal Alignment and Vertical Profile - Mainline           | #DIV/0!     | 0           | \$0         | \$0            | \$0           | \$0          | \$0          | \$0     | \$0        |
| 116 | 2.3.B.D Conceptual Cross Sections                                      | #DIV/0!     | 0           | \$0         | \$0            | \$0           | \$0          | \$0          | \$0     | \$0        |
| 117 | 2.3.B.E Identify Construction Limits                                   | #DIV/0!     | 0           | \$0         | \$0            | \$0           | \$0          | \$0          | \$0     | \$0        |
| 118 |  |             |             |             |                |               |              |              |         |            |
| 119 | 2.3.C Drainage   | \$0.00      | 0           | \$0         | \$0            | \$0           | \$0          | \$0          | \$0     | \$0        |
| 120 | 2.3.C.A Drainage Design Criteria Forms (LD-35)                         | #DIV/0!     | 0           | \$0         | \$0            | \$0           | \$0          | \$0          | \$0     | \$0        |
| 121 | 2.3.C.B LD-33 Form (Contact County Engineer)                           | #DIV/0!     | 0           | \$0         | \$0            | \$0           | \$0          | \$0          | \$0     | \$0        |
| 122 | 2.3.C.C Hydraulically size all major storm sewer trunk lines           | #DIV/0!     | 0           | \$0         | \$0            | \$0           | \$0          | \$0          | \$0     | \$0        |
| 123 | 2.3.C.D Perform preliminary hydraulic analysis for culverts            | #DIV/0!     | 0           | \$0         | \$0            | \$0           | \$0          | \$0          | \$0     | \$0        |
| 124 | 2.3.C.E Conceptual BMP   | #DIV/0!     | 0           | \$0         | \$0            | \$0           | \$0          | \$0          | \$0     | \$0        |
| 125 | 2.3.C.F Estimate impact to wetlands, streams, & other regulated water  | #DIV/0!     | 0           | \$0         | \$0            | \$0           | \$0          | \$0          | \$0     | \$0        |
| 126 |  |             |             |             |                |               |              |              |         |            |
| 127 | 2.3.D Maintenance of Traffic   | \$0.00      | 0           | \$0         | \$0            | \$0           | \$0          | \$0          | \$0     | \$0        |
| 128 | 2.3.D.A Conceptual MOT Plan (without MOTAA)                            | #DIV/0!     | 0           | \$0         | \$0            | \$0           | \$0          | \$0          | \$0     | \$0        |
| 129 |  |             |             |             |                |               |              |              |         |            |
| 130 | 2.3.E Utilities  | \$0.00      | 0           | \$0         | \$0            | \$0           | \$0          | \$0          | \$0     | \$0        |
| 131 | 2.3.E.A Utility Coordination and Documentation                         | #DIV/0!     | 0           | \$0         | \$0            | \$0           | \$0          | \$0          | \$0     | \$0        |
| 132 | 2.3.E.B Subsurface Utility Engineering                                 | #DIV/0!     | 0           | \$0         | \$0            | \$0           | \$0          | \$0          | \$0     | \$0        |
| 133 |  |             |             |             |                |               |              |              |         |            |
| 134 | 2.3.F Miscellaneous  | \$0.00      | 0           | \$0         | \$0            | \$0           | \$0          | \$0          | \$0     | \$0        |
| 135 | 2.3.F.A Identify and coordinate impacts on FEMA flood zones            | #DIV/0!     | 0           | \$0         | \$0            | \$0           | \$0          | \$0          | \$0     | \$0        |
| 136 | 2.3.F.B. Determine need for Design Exception                           | #DIV/0!     | 0           | \$0         | \$0            | \$0           | \$0          | \$0          | \$0     | \$0        |
| 137 |  |             |             |             |                |               |              |              |         |            |
| 138 | Subtotal 2.3 AER Design  | \$55.60     | 15          | \$834       | \$1,073        | \$2           | \$0          | \$0          | \$236   | \$2,146    |
| 139 |  |             |             |             |                |               |              |              |         |            |
| 140 | Task 2.4 Prepare Cost Estimates  |             |             |             |                |               |              |              |         |            |
| 141 | 2.4.A Roadway/Interchange Costs  | #DIV/0!     | 0           | \$0         | \$0            | \$0           | \$0          | \$0          | \$0     | \$0        |
| 142 | 2.4.B Right of Way Costs   | #DIV/0!     | 0           | \$0         | \$0            | \$0           | \$0          | \$0          | \$0     | \$0        |
| 143 | 2.4.C Utility  | #DIV/0!     | 0           | \$0         | \$0            | \$0           | \$0          | \$0          | \$0     | \$0        |
| 144 |  |             |             |             |                |               |              |              |         |            |
| 145 | Subtotal 2.4 Prepare Cost Estimates                                    | #DIV/0!     | 0           | \$0         | \$0            | \$0           | \$0          | \$0          | \$0     | \$0        |
| 146 |  |             |             |             |                |               |              |              |         |            |
| 147 | Task 2.5 AER Submittal and Other Studies                               |             |             |             |                |               |              |              |         |            |
| 148 | 2.5.A Prepare Alternative Evaluation Report                            | #DIV/0!     | 0           | \$0         | \$0            | \$0           | \$0          | \$0          | \$0     | \$0        |
| 149 | 2.5.B Certified Traffic for Preferred Alternative                      | #DIV/0!     | 0           | \$0         | \$0            | \$0           | \$0          | \$0          | \$0     | \$0        |
| 150 | 2.5.C Prepare Access Point Request (IMS/IJS)                           | #DIV/0!     | 0           | \$0         | \$0            | \$0           | \$0          | \$0          | \$0     | \$0        |
| 151 | 2.5.D Structures   | #DIV/0!     | 0           | \$0         | \$0            | \$0           | \$0          | \$0          | \$0     | \$0        |
| 152 | 2.5.D.A Bridge Structure Type Study (break out each bridge separately) | #DIV/0!     | 0           | \$0         | \$0            | \$0           | \$0          | \$0          | \$0     | \$0        |
| 153 | 2.5.D.B Complete bridge hydraulic study and scour analysis             | #DIV/0!     | 0           | \$0         | \$0            | \$0           | \$0          | \$0          | \$0     | \$0        |
| 154 | 2.5.E Retaining wall justification                                     | #DIV/0!     | 0           | \$0         | \$0            | \$0           | \$0          | \$0          | \$0     | \$0        |
| 155 |  |             |             |             |                |               |              |              |         |            |
| 156 | Subtotal 2.5 AER Submittal and Other Studies                           | #DIV/0!     | 0           | \$0         | \$0            | \$0           | \$0          | \$0          | \$0     | \$0        |
| 157 |  |             |             |             |                |               |              |              |         |            |
| 158 | Task 2.6 Public Involvement/Coordination                               |             |             |             |                |               |              |              |         |            |
| 159 | 2.6.A Public Involvement Meeting                                       | #DIV/0!     | 0           | \$0         | \$0            | \$0           | \$0          | \$0          | \$0     | \$0        |
| 160 |  |             |             |             |                |               |              |              |         |            |
| 161 | Subtotal 2.6 Public Involvement/Coordination                           | #DIV/0!     | 0           | \$0         | \$0            | \$0           | \$0          | \$0          | \$0     | \$0        |
| 162 |  |             |             |             |                |               |              |              |         |            |
| 163 | Task 2.7 Stage 1 Design  |             |             |             |                |               |              |              |         |            |

## SUMMARY OF STEPS

|     | A   | C           | D           | E           | F              | G             | H            | I            | J       | K          |
|-----|---|-------------|-------------|-------------|----------------|---------------|--------------|--------------|---------|------------|
|     | Task Description  | Hourly Rate | Total Hours | Labor Costs | Overhead Costs | Cost of Money | Direct Costs | Subcon Costs | Net Fee | Total Cost |
| 164 | 2.7.A Roadway   |             |             |             |                |               |              |              |         |            |
| 165 | 2.7.A.A Title Sheet   | #DIV/0!     | 0           | \$0         | \$0            | \$0           | \$0          | \$0          | \$0     | \$0        |
| 166 | 2.7.A.B Schematic Plan  | #DIV/0!     | 0           | \$0         | \$0            | \$0           | \$0          | \$0          | \$0     | \$0        |
| 167 | 2.7.A.C General Notes   | #DIV/0!     | 0           | \$0         | \$0            | \$0           | \$0          | \$0          | \$0     | \$0        |
| 168 | 2.7.A.D Typical Sections                                      | #DIV/0!     | 0           | \$0         | \$0            | \$0           | \$0          | \$0          | \$0     | \$0        |
| 169 | 2.7.A.E Cross Sections  | #DIV/0!     | 0           | \$0         | \$0            | \$0           | \$0          | \$0          | \$0     | \$0        |
| 170 | 2.7.A.F Plan and Profile - Mainline                           | #DIV/0!     | 0           | \$0         | \$0            | \$0           | \$0          | \$0          | \$0     | \$0        |
| 171 | 2.7.A.G Plan and Profile - Crossroads                         | #DIV/0!     | 0           | \$0         | \$0            | \$0           | \$0          | \$0          | \$0     | \$0        |
| 172 | 2.7.A.H Plan and Profile - Ramps                              | #DIV/0!     | 0           | \$0         | \$0            | \$0           | \$0          | \$0          | \$0     | \$0        |
| 173 | 2.7.A.I Superelevation Table                                  | #DIV/0!     | 0           | \$0         | \$0            | \$0           | \$0          | \$0          | \$0     | \$0        |
| 174 | 2.7.A.J Intersection Details                                  | #DIV/0!     | 0           | \$0         | \$0            | \$0           | \$0          | \$0          | \$0     | \$0        |
| 175 | 2.7.A.K Update Interchange Geometrics & Details               | #DIV/0!     | 0           | \$0         | \$0            | \$0           | \$0          | \$0          | \$0     | \$0        |
| 176 | 2.7.A.L Driveway Details                                      | #DIV/0!     | 0           | \$0         | \$0            | \$0           | \$0          | \$0          | \$0     | \$0        |
| 177 | 2.7.A.M Design Exception Request                              | #DIV/0!     | 0           | \$0         | \$0            | \$0           | \$0          | \$0          | \$0     | \$0        |
| 178 | 2.7.A.N Traffic Control                                       | #DIV/0!     | 0           | \$0         | \$0            | \$0           | \$0          | \$0          | \$0     | \$0        |
| 179 |   |             |             |             |                |               |              |              |         |            |
| 180 | 2.7.B Drainage  |             |             |             |                |               |              |              |         |            |
| 181 | 2.7.B.A Storm Sewer Profiles                                  | #DIV/0!     | 0           | \$0         | \$0            | \$0           | \$0          | \$0          | \$0     | \$0        |
| 182 | 2.7.B.B Culvert Detail Sheet                                  | #DIV/0!     | 0           | \$0         | \$0            | \$0           | \$0          | \$0          | \$0     | \$0        |
| 183 | 2.7.B.C Channel Relocation Details & Section Sheets           | #DIV/0!     | 0           | \$0         | \$0            | \$0           | \$0          | \$0          | \$0     | \$0        |
| 184 | 2.7.B.D Drainage Calculations                                 | #DIV/0!     | 0           | \$0         | \$0            | \$0           | \$0          | \$0          | \$0     | \$0        |
| 185 | 2.7.B.E BMP Design  | #DIV/0!     | 0           | \$0         | \$0            | \$0           | \$0          | \$0          | \$0     | \$0        |
| 186 |   |             |             |             |                |               |              |              |         |            |
| 187 | 2.7.C Utilities   |             |             |             |                |               |              |              |         |            |
| 188 | 2.7.C.A Utility Coordination and Documentation                | #DIV/0!     | 0           | \$0         | \$0            | \$0           | \$0          | \$0          | \$0     | \$0        |
| 189 | 2.7.C.B Description of proposed water and/or sewer work       | #DIV/0!     | 0           | \$0         | \$0            | \$0           | \$0          | \$0          | \$0     | \$0        |
| 190 | 2.7.C.C Subsurface Utility Engineering (SUE)                  | #DIV/0!     | 0           | \$0         | \$0            | \$0           | \$0          | \$0          | \$0     | \$0        |
| 191 |   |             |             |             |                |               |              |              |         |            |
| 192 | 2.7.D Geotechnical Services and Report                        |             |             |             |                |               |              |              |         |            |
| 193 | 2.7.D.A Geotechnical Services and Report                      | #DIV/0!     | 0           | \$0         | \$0            | \$0           | \$0          | \$0          | \$0     | \$0        |
| 194 |   |             |             |             |                |               |              |              |         |            |
| 195 | 2.7.E Miscellaneous   |             |             |             |                |               |              |              |         |            |
| 196 | 2.7.E.A Perform Airway/Highway clearance analysis             | #DIV/0!     | 0           | \$0         | \$0            | \$0           | \$0          | \$0          | \$0     | \$0        |
| 197 |   |             |             |             |                |               |              |              |         |            |
| 198 | 2.7.F Prepare C2 Cost Estimates and Update Milestones         |             |             |             |                |               |              |              |         |            |
| 199 | 2.7.F.A Roadway/Interchange Costs                             | #DIV/0!     | 0           | \$0         | \$0            | \$0           | \$0          | \$0          | \$0     | \$0        |
| 200 | 2.7.F.B Right of Way  | #DIV/0!     | 0           | \$0         | \$0            | \$0           | \$0          | \$0          | \$0     | \$0        |
| 201 | 2.7.F.C Utility   | #DIV/0!     | 0           | \$0         | \$0            | \$0           | \$0          | \$0          | \$0     | \$0        |
| 202 |   |             |             |             |                |               |              |              |         |            |
| 203 | 2.7.G Maintenance of Traffic                                  |             |             |             |                |               |              |              |         |            |
| 204 | 2.7.G.B Detour Plan   | #DIV/0!     | 0           | \$0         | \$0            | \$0           | \$0          | \$0          | \$0     | \$0        |
| 205 |   |             |             |             |                |               |              |              |         |            |
| 206 | Subtotal 2.7 Stage 1 Design                                   | #DIV/0!     | 0           | \$0         | \$0            | \$0           | \$0          | \$0          | \$0     | \$0        |
| 207 |   |             |             |             |                |               |              |              |         |            |
| 208 | Task 2.8 Project Management for Preliminary Engineering Phase |             |             |             |                |               |              |              |         |            |
| 209 | 2.8.A Task List and Fee Proposal Preparation                  | #DIV/0!     | 0           | \$0         | \$0            | \$0           | \$0          | \$0          | \$0     | \$0        |
| 210 | 2.8.B General Oversight                                       | #DIV/0!     | 0           | \$0         | \$0            | \$0           | \$0          | \$0          | \$0     | \$0        |
| 211 | 2.8.C Project Set Up  | #DIV/0!     | 0           | \$0         | \$0            | \$0           | \$0          | \$0          | \$0     | \$0        |
| 212 | 2.8.D Non Routine (Soft) Items                                | #DIV/0!     | 0           | \$0         | \$0            | \$0           | \$0          | \$0          | \$0     | \$0        |
| 213 |   |             |             |             |                |               |              |              |         |            |
| 214 | Subtotal 2.8 Project Management for PE Phase                  | #DIV/0!     | 0           | \$0         | \$0            | \$0           | \$0          | \$0          | \$0     | \$0        |
| 215 |   |             |             |             |                |               |              |              |         |            |
| 216 | Task 2.9 Limited Review                                       |             |             |             |                |               |              |              |         |            |
| 217 | 2.9.A QA/QC for Limited Review                                | #DIV/0!     | 0           | \$0         | \$0            | \$0           | \$0          | \$0          | \$0     | \$0        |
| 218 |   |             |             |             |                |               |              |              |         |            |
| 219 | Subtotal 2.9 Limited Review                                   | #DIV/0!     | 0           | \$0         | \$0            | \$0           | \$0          | \$0          | \$0     | \$0        |
| 220 |   |             |             |             |                |               |              |              |         |            |
| 221 | SUBTOTAL Phase 2  | \$55.60     | 15          | \$834       | \$1,073        | \$2           | \$0          | \$0          | \$236   | \$2,146    |
| 222 |   |             |             |             |                |               |              |              |         |            |
| 223 | Phase 3 - Environmental Engineering Phase                     |             |             |             |                |               |              |              |         |            |
| 224 |   |             |             |             |                |               |              |              |         |            |
| 225 | Task 3.1 Environmental Field Studies and Refined Impacts      |             |             |             |                |               |              |              |         |            |
| 226 | 3.1.A Phase I Cultural Archaeological                         | #DIV/0!     | 0           | \$0         | \$0            | \$0           | \$0          | \$0          | \$0     | \$0        |
| 227 | 3.1.B Phase II Cultural Resource History/Architecture Survey  | #DIV/0!     | 0           | \$0         | \$0            | \$0           | \$0          | \$0          | \$0     | \$0        |
| 228 | 3.1.C Section 4(f) Evaluation                                 | #DIV/0!     | 0           | \$0         | \$0            | \$0           | \$0          | \$0          | \$0     | \$0        |
| 229 | 3.1.D Phase I Environmental Site Assessment                   | #DIV/0!     | 0           | \$0         | \$0            | \$0           | \$0          | \$0          | \$0     | \$0        |
| 230 | 3.1.E Farmland Studies  | #DIV/0!     | 0           | \$0         | \$0            | \$0           | \$0          | \$0          | \$0     | \$0        |
| 231 | 3.1.F Secondary and Cumulative Review                         | #DIV/0!     | 0           | \$0         | \$0            | \$0           | \$0          | \$0          | \$0     | \$0        |
| 232 | 3.1.G Biological Assessment for Federally Listed Species      | #DIV/0!     | 0           | \$0         | \$0            | \$0           | \$0          | \$0          | \$0     | \$0        |
| 233 | 3.1.H Prepare Waterway Permit Determination Package/Permits   | #DIV/0!     | 0           | \$0         | \$0            | \$0           | \$0          | \$0          | \$0     | \$0        |
| 234 | 3.1.I Phase II Environmental Site Assessment                  | #DIV/0!     | 0           | \$0         | \$0            | \$0           | \$0          | \$0          | \$0     | \$0        |
| 235 | 3.1.J Mussel Survey   | #DIV/0!     | 0           | \$0         | \$0            | \$0           | \$0          | \$0          | \$0     | \$0        |
| 236 |   |             |             |             |                |               |              |              |         |            |
| 237 | Subtotal 3.1 Environmental Field Studies and Refined Impacts  | #DIV/0!     | 0           | \$0         | \$0            | \$0           | \$0          | \$0          | \$0     | \$0        |
| 238 |   |             |             |             |                |               |              |              |         |            |
| 239 | Task 3.2 Stage 1 Value Engineering                            |             |             |             |                |               |              |              |         |            |
| 240 | 3.2.A Value Engineering Study and Report                      | #DIV/0!     | 0           | \$0         | \$0            | \$0           | \$0          | \$0          | \$0     | \$0        |
| 241 |   |             |             |             |                |               |              |              |         |            |
| 242 | Subtotal 3.2 Stage 1 Value Engineering                        | #DIV/0!     | 0           | \$0         | \$0            | \$0           | \$0          | \$0          | \$0     | \$0        |
| 243 |   |             |             |             |                |               |              |              |         |            |

## SUMMARY OF STEPS

|     | A  | C       | D     | E     | F        | G       | H      | I      | J    | K     |
|-----|--|---------|-------|-------|----------|---------|--------|--------|------|-------|
|     |  | Hourly  | Total | Labor | Overhead | Cost of | Direct | Subcon | Net  | Total |
|     | Task Description   | Rate    | Hours | Costs | Costs    | Money   | Costs  | Costs  | Fee  | Cost  |
| 244 | <b>Task 3.3 Stage 2</b>  |         |       |       |          |         |        |        |      |       |
| 245 | 3.3.A Roadway  |         |       |       |          |         |        |        |      |       |
| 246 | 3.3.A.A Title Sheet  | #DIV/0! | 0     | \$0   | \$0      | \$0     | \$0    | \$0    | \$0  | \$0   |
| 247 | 3.3.A.B Schematic  | #DIV/0! | 0     | \$0   | \$0      | \$0     | \$0    | \$0    | \$0  | \$0   |
| 248 | 3.3.A.C General Notes  | #DIV/0! | 0     | \$0   | \$0      | \$0     | \$0    | \$0    | \$0  | \$0   |
| 249 | 3.3.A.D Typical Sections   | #DIV/0! | 0     | \$0   | \$0      | \$0     | \$0    | \$0    | \$0  | \$0   |
| 250 | 3.3.A.E Plan and Profile - Mainline                                    | #DIV/0! | 0     | \$0   | \$0      | \$0     | \$0    | \$0    | \$0  | \$0   |
| 251 | 3.3.A.F Cross Sections   | #DIV/0! | 0     | \$0   | \$0      | \$0     | \$0    | \$0    | \$0  | \$0   |
| 252 | 3.3.A.G Intersection Details   | #DIV/0! | 0     | \$0   | \$0      | \$0     | \$0    | \$0    | \$0  | \$0   |
| 253 |  |         |       |       |          |         |        |        |      |       |
| 254 | 3.3.B Drainage   | \$0.00  | 0     | \$0   | \$0      | \$0     | \$0    | \$0    | \$0  | \$0   |
| 255 | 3.3.B.A Storm Sewer Profiles   | #DIV/0! | 0     | \$0   | \$0      | \$0     | \$0    | \$0    | \$0  | \$0   |
| 256 | 3.3.B.B Culvert Detail Sheets including headwall and wingwall details  | #DIV/0! | 0     | \$0   | \$0      | \$0     | \$0    | \$0    | \$0  | \$0   |
| 257 | 3.3.B.C Channel Relocation Details                                     | #DIV/0! | 0     | \$0   | \$0      | \$0     | \$0    | \$0    | \$0  | \$0   |
| 258 | 3.3.B.D Underdrain details   | #DIV/0! | 0     | \$0   | \$0      | \$0     | \$0    | \$0    | \$0  | \$0   |
| 259 | 3.3.B.E BMP Details  | #DIV/0! | 0     | \$0   | \$0      | \$0     | \$0    | \$0    | \$0  | \$0   |
| 260 |  |         |       |       |          |         |        |        |      |       |
| 261 | 3.3.C Traffic Control  | #DIV/0! | 0     | \$0   | \$0      | \$0     | \$0    | \$0    | \$0  | \$0   |
| 262 |  |         |       |       |          |         |        |        |      |       |
| 263 | 3.3.E Maintenance of Traffic   | \$0.00  | 0     | \$0   | \$0      | \$0     | \$0    | \$0    | \$0  | \$0   |
| 264 | 3.3.E.A MOT General Notes  | #DIV/0! | 0     | \$0   | \$0      | \$0     | \$0    | \$0    | \$0  | \$0   |
| 265 | 3.3.E.B Detour Plan  | #DIV/0! | 0     | \$0   | \$0      | \$0     | \$0    | \$0    | \$0  | \$0   |
| 266 |  |         |       |       |          |         |        |        |      |       |
| 267 | 3.3.J Utilities  | \$0.00  | 0     | \$0   | \$0      | \$0     | \$0    | \$0    | \$0  | \$0   |
| 268 | 3.3.J.A Utility Coordination and Documentation                         | #DIV/0! | 0     | \$0   | \$0      | \$0     | \$0    | \$0    | \$0  | \$0   |
| 269 | 3.3.J.B Water Works Plan, Details, & Notes                             | #DIV/0! | 0     | \$0   | \$0      | \$0     | \$0    | \$0    | \$0  | \$0   |
| 270 | 3.3.J.C Sanitary Sewer Plans   | #DIV/0! | 0     | \$0   | \$0      | \$0     | \$0    | \$0    | \$0  | \$0   |
| 271 |  |         |       |       |          |         |        |        |      |       |
| 272 | 3.3.K Geotechnical Services  | \$0.00  | 0     | \$0   | \$0      | \$0     | \$0    | \$0    | \$0  | \$0   |
| 273 | 3.3.K.A Finalize Geotechnical Investigation and Report                 | #DIV/0! | 0     | \$0   | \$0      | \$0     | \$0    | \$0    | \$0  | \$0   |
| 274 |  |         |       |       |          |         |        |        |      |       |
| 275 | <b>Subtotal 3.3 Stage 2</b>  | #DIV/0! | 0     | \$0   | \$0      | \$0     | \$0    | \$0    | \$0  | \$0   |
| 276 |  |         |       |       |          |         |        |        |      |       |
| 277 | <b>Task 3.4 Right of Way Plans</b>                                     |         |       |       |          |         |        |        |      |       |
| 278 | 3.4.A Conceptual Right of Way Plan Review                              | #DIV/0! | 0     | \$0   | \$0      | \$0     | \$0    | \$0    | \$0  | \$0   |
| 279 | <b>3.4.B Preliminary Right of Way Plans</b>                            |         |       |       |          |         |        |        |      |       |
| 280 | 3.4.B.A Legend Sheet   | #DIV/0! | 0     | \$0   | \$0      | \$0     | \$0    | \$0    | \$0  | \$0   |
| 281 | 3.4.B.B Centerline Survey Plat   | #DIV/0! | 0     | \$0   | \$0      | \$0     | \$0    | \$0    | \$0  | \$0   |
| 282 | 3.4.B.C Property Map   | #DIV/0! | 0     | \$0   | \$0      | \$0     | \$0    | \$0    | \$0  | \$0   |
| 283 | 3.4.B.D Summary of Additional Right of Way                             | \$41.00 | 1     | \$41  | \$53     | \$0     | \$0    | \$0    | \$12 | \$105 |
| 284 | 3.4.B.E Detailed ROW Plan Sheets                                       | \$41.00 | 1     | \$41  | \$53     | \$0     | \$0    | \$0    | \$12 | \$105 |
| 285 | 3.4.B.F Special Plats  | #DIV/0! | 0     | \$0   | \$0      | \$0     | \$0    | \$0    | \$0  | \$0   |
| 286 | 3.4.B.G Legal Descriptions and Closure Calculations                    | \$60.00 | 4     | \$240 | \$309    | \$1     | \$0    | \$0    | \$68 | \$617 |
| 287 | 3.4.B.H Right-of-Way Acquisition Estimate                              | #DIV/0! | 0     | \$0   | \$0      | \$0     | \$0    | \$0    | \$0  | \$0   |
| 288 | 3.4.B.I Field Review   | #DIV/0! | 0     | \$0   | \$0      | \$0     | \$0    | \$0    | \$0  | \$0   |
| 289 |  |         |       |       |          |         |        |        |      |       |
| 290 | 3.4.C Compliance Right of Way Plans                                    | #DIV/0! | 0     | \$0   | \$0      | \$0     | \$0    | \$0    | \$0  | \$0   |
| 291 |  |         |       |       |          |         |        |        |      |       |
| 292 | 3.4.D Final Right of Way Plans   |         |       |       |          |         |        |        |      |       |
| 293 | 3.4.D.A Final Right of Way Plans                                       | #DIV/0! | 0     | \$0   | \$0      | \$0     | \$0    | \$0    | \$0  | \$0   |
| 294 | 3.4.D.B Field Review & Verify Property Owners                          | #DIV/0! | 0     | \$0   | \$0      | \$0     | \$0    | \$0    | \$0  | \$0   |
| 295 | 3.4.D.C Record Centerline Plat and all appropriate documents           | #DIV/0! | 0     | \$0   | \$0      | \$0     | \$0    | \$0    | \$0  | \$0   |
| 296 |  |         |       |       |          |         |        |        |      |       |
| 297 | <b>Subtotal 3.4 Right of Way Plans</b>                                 | \$53.67 | 6     | \$322 | \$414    | \$1     | \$0    | \$0    | \$91 | \$828 |
| 298 |  |         |       |       |          |         |        |        |      |       |
| 299 | <b>Task 3.5 Prepare Environmental Document</b>                         |         |       |       |          |         |        |        |      |       |
| 300 | 3.5.A Prepare Environmental Document                                   | #DIV/0! | 0     | \$0   | \$0      | \$0     | \$0    | \$0    | \$0  | \$0   |
| 301 |  |         |       |       |          |         |        |        |      |       |
| 302 | <b>Subtotal 3.5 Prepare Environmental Document</b>                     | #DIV/0! | 0     | \$0   | \$0      | \$0     | \$0    | \$0    | \$0  | \$0   |
| 303 |  |         |       |       |          |         |        |        |      |       |
| 304 | <b>Task 3.6 Environmental Commitments and Plan Notes</b>               |         |       |       |          |         |        |        |      |       |
| 305 | 3.6.A Environmental Commitment Plan Notes                              | #DIV/0! | 0     | \$0   | \$0      | \$0     | \$0    | \$0    | \$0  | \$0   |
| 306 |  |         |       |       |          |         |        |        |      |       |
| 307 | <b>Subtotal 3.6 Environmental Commitments and Plan Notes</b>           | #DIV/0! | 0     | \$0   | \$0      | \$0     | \$0    | \$0    | \$0  | \$0   |
| 308 |  |         |       |       |          |         |        |        |      |       |
| 309 | <b>Task 3.7 Prepare Cost Estimates and Revise Milestones</b>           |         |       |       |          |         |        |        |      |       |
| 310 | 3.7.A Roadway/Interchange Costs  | #DIV/0! | 0     | \$0   | \$0      | \$0     | \$0    | \$0    | \$0  | \$0   |
| 311 | 3.7.B Structure Costs  | #DIV/0! | 0     | \$0   | \$0      | \$0     | \$0    | \$0    | \$0  | \$0   |
| 312 | 3.7.C Utility Costs  | #DIV/0! | 0     | \$0   | \$0      | \$0     | \$0    | \$0    | \$0  | \$0   |
| 313 |  |         |       |       |          |         |        |        |      |       |
| 314 | <b>Subtotal 3.7 Prepare Cost Estimates and Revise Milestones</b>       | #DIV/0! | 0     | \$0   | \$0      | \$0     | \$0    | \$0    | \$0  | \$0   |
| 315 |  |         |       |       |          |         |        |        |      |       |
| 316 | <b>Task 3.8 Project Management for Environmental Engineering Phase</b> |         |       |       |          |         |        |        |      |       |
| 317 | 3.8.A Meetings   | #DIV/0! | 0     | \$0   | \$0      | \$0     | \$0    | \$0    | \$0  | \$0   |
| 318 | 3.8.B General Oversight  | #DIV/0! | 0     | \$0   | \$0      | \$0     | \$0    | \$0    | \$0  | \$0   |
| 319 | 3.8.C Project Set Up   | #DIV/0! | 0     | \$0   | \$0      | \$0     | \$0    | \$0    | \$0  | \$0   |
| 320 | 3.8.D Non Routine (Soft) Items   | #DIV/0! | 0     | \$0   | \$0      | \$0     | \$0    | \$0    | \$0  | \$0   |
| 321 |  |         |       |       |          |         |        |        |      |       |
| 322 | <b>Subtotal 3.8 Project Management for EE Phase</b>                    | #DIV/0! | 0     | \$0   | \$0      | \$0     | \$0    | \$0    | \$0  | \$0   |
| 323 |  |         |       |       |          |         |        |        |      |       |
| 324 | <b>Task 3.9 Limited Review</b>   |         |       |       |          |         |        |        |      |       |

## SUMMARY OF STEPS

|     | A  | C              | D           | E              | F              | G             | H            | I              | J            | K              |
|-----|--|----------------|-------------|----------------|----------------|---------------|--------------|----------------|--------------|----------------|
|     | Task Description   | Hourly Rate    | Total Hours | Labor Costs    | Overhead Costs | Cost of Money | Direct Costs | Subcon Costs   | Net Fee      | Total Cost     |
| 325 | 3.9.A QA/QC for Limited Review   | #DIV/0!        | 0           | \$0            | \$0            | \$0           | \$0          | \$0            | \$0          | \$0            |
| 326 |  |                |             |                |                |               |              |                |              |                |
| 327 | Subtotal 3.9 Limited Review  | #DIV/0!        | 0           | \$0            | \$0            | \$0           | \$0          | \$0            | \$0          | \$0            |
| 328 |  |                |             |                |                |               |              |                |              |                |
| 329 | <b>SUBTOTAL Phase 3</b>  | <b>\$53.67</b> | <b>6</b>    | <b>\$322</b>   | <b>\$414</b>   | <b>\$1</b>    | <b>\$0</b>   | <b>\$0</b>     | <b>\$91</b>  | <b>\$828</b>   |
| 330 |  |                |             |                |                |               |              |                |              |                |
| 331 | <b>Phase 4 - Final Engineering and R/W Phase</b>                       |                |             |                |                |               |              |                |              |                |
| 332 |  |                |             |                |                |               |              |                |              |                |
| 333 | <b>Task 4.1 Right of Way Acquisition</b>                               |                |             |                |                |               |              |                |              |                |
| 334 | 4.1.A Right of Way Acquisition   | #DIV/0!        | 0           | \$0            | \$0            | \$0           | \$0          | \$4,975        | \$0          | \$4,975        |
| 335 |  |                |             |                |                |               |              |                |              |                |
| 336 | Subtotal 4.1 Stage 3 Right of Way Acquisition                          | #DIV/0!        | 0           | \$0            | \$0            | \$0           | \$0          | \$4,975        | \$0          | \$4,975        |
| 337 |  |                |             |                |                |               |              |                |              |                |
| 338 | <b>Task 4.2 Stage 3 Detailed Design Plans</b>                          |                |             |                |                |               |              |                |              |                |
| 339 | 4.2.A Quantities and Notes   | \$0.00         | 0           | \$0            | \$0            | \$0           | \$0          | \$0            | \$0          | \$0            |
| 340 | 4.2.A.A Pavement Subsummary  | #DIV/0!        | 0           | \$0            | \$0            | \$0           | \$0          | \$0            | \$0          | \$0            |
| 341 | 4.2.A.B Drainage Subsummary  | #DIV/0!        | 0           | \$0            | \$0            | \$0           | \$0          | \$0            | \$0          | \$0            |
| 342 | 4.2.A.C Roadway Subsummary   | #DIV/0!        | 0           | \$0            | \$0            | \$0           | \$0          | \$0            | \$0          | \$0            |
| 343 | 4.2.A.D Earthwork and Seeding Subsummary                               | #DIV/0!        | 0           | \$0            | \$0            | \$0           | \$0          | \$0            | \$0          | \$0            |
| 344 | 4.2.A.E General Summary Sheet  | #DIV/0!        | 0           | \$0            | \$0            | \$0           | \$0          | \$0            | \$0          | \$0            |
| 345 | 4.2.A.F General Notes  | #DIV/0!        | 0           | \$0            | \$0            | \$0           | \$0          | \$0            | \$0          | \$0            |
| 346 | 4.2.A.G Driveway Subsummary or Driveway Details (if incl. on same sh   | #DIV/0!        | 0           | \$0            | \$0            | \$0           | \$0          | \$0            | \$0          | \$0            |
| 347 |  |                |             |                |                |               |              |                |              |                |
| 348 | 4.2.B Drainage   | \$0.00         | 0           | \$0            | \$0            | \$0           | \$0          | \$0            | \$0          | \$0            |
| 349 | 4.2.B.A Storm Sewer Profiles   | #DIV/0!        | 0           | \$0            | \$0            | \$0           | \$0          | \$0            | \$0          | \$0            |
| 350 | 4.2.B.B Culvert Detail Sheet incl. headwall and wingwall details       | #DIV/0!        | 0           | \$0            | \$0            | \$0           | \$0          | \$0            | \$0          | \$0            |
| 351 | 4.2.B.C Channel Relocation Details                                     | #DIV/0!        | 0           | \$0            | \$0            | \$0           | \$0          | \$0            | \$0          | \$0            |
| 352 | 4.2.B.D Underdrain details   | #DIV/0!        | 0           | \$0            | \$0            | \$0           | \$0          | \$0            | \$0          | \$0            |
| 353 | 4.2.B.E BMP Details  | #DIV/0!        | 0           | \$0            | \$0            | \$0           | \$0          | \$0            | \$0          | \$0            |
| 354 |  |                |             |                |                |               |              |                |              |                |
| 355 | 4.2.C Traffic Control Plans  | \$0.00         | 0           | \$0            | \$0            | \$0           | \$0          | \$0            | \$0          | \$0            |
| 356 | 4.2.C.A Signing and Pavement Marking Plans                             | #DIV/0!        | 0           | \$0            | \$0            | \$0           | \$0          | \$0            | \$0          | \$0            |
| 357 |  |                |             |                |                |               |              |                |              |                |
| 358 | 4.2.D Miscellaneous  | \$0.00         | 0           | \$0            | \$0            | \$0           | \$0          | \$0            | \$0          | \$0            |
| 359 | 4.2.D.A Prepare FAA Form 7460-1 for Airway/Highway Clearance           | #DIV/0!        | 0           | \$0            | \$0            | \$0           | \$0          | \$0            | \$0          | \$0            |
| 360 | 4.2.D.B Project Site Plan  | #DIV/0!        | 0           | \$0            | \$0            | \$0           | \$0          | \$0            | \$0          | \$0            |
| 361 | 4.2.D.C Title Sheet  | #DIV/0!        | 0           | \$0            | \$0            | \$0           | \$0          | \$0            | \$0          | \$0            |
| 362 |  |                |             |                |                |               |              |                |              |                |
| 363 | 4.2.E Maintenance of Traffic   | \$0.00         | 0           | \$0            | \$0            | \$0           | \$0          | \$0            | \$0          | \$0            |
| 364 | 4.2.E.A MOT Plan Sheets  | #DIV/0!        | 0           | \$0            | \$0            | \$0           | \$0          | \$0            | \$0          | \$0            |
| 365 |  |                |             |                |                |               |              |                |              |                |
| 366 | Subtotal 4.2 Stage 3 Detailed Design Plans                             | #DIV/0!        | 0           | \$0            | \$0            | \$0           | \$0          | \$0            | \$0          | \$0            |
| 367 |  |                |             |                |                |               |              |                |              |                |
| 368 | <b>Task 4.3 Prepare Cost Estimates and Revise Milestones</b>           |                |             |                |                |               |              |                |              |                |
| 369 | 4.3.A Roadway/Interchange Costs  | #DIV/0!        | 0           | \$0            | \$0            | \$0           | \$0          | \$0            | \$0          | \$0            |
| 370 | 4.3.B Right of Way Costs   | #DIV/0!        | 0           | \$0            | \$0            | \$0           | \$0          | \$0            | \$0          | \$0            |
| 371 | 4.3.C Structure Costs  | #DIV/0!        | 0           | \$0            | \$0            | \$0           | \$0          | \$0            | \$0          | \$0            |
| 372 | 4.3.D Utility Costs  | #DIV/0!        | 0           | \$0            | \$0            | \$0           | \$0          | \$0            | \$0          | \$0            |
| 373 |  |                |             |                |                |               |              |                |              |                |
| 374 | Subtotal 4.3 Prepare Cost Estimates and Revise Milestones              | #DIV/0!        | 0           | \$0            | \$0            | \$0           | \$0          | \$0            | \$0          | \$0            |
| 375 |  |                |             |                |                |               |              |                |              |                |
| 376 | <b>Task 4.4 Final Plan Package</b>                                     |                |             |                |                |               |              |                |              |                |
| 377 | 4.4.A Submission of Final Tracings and Documentation                   | #DIV/0!        | 0           | \$0            | \$0            | \$0           | \$0          | \$0            | \$0          | \$0            |
| 378 |  |                |             |                |                |               |              |                |              |                |
| 379 | Subtotal 4.4 Final Plan Package  | #DIV/0!        | 0           | \$0            | \$0            | \$0           | \$0          | \$0            | \$0          | \$0            |
| 380 |  |                |             |                |                |               |              |                |              |                |
| 381 | <b>Task 4.5 Project Management for Final Engineering and R/W Phase</b> |                |             |                |                |               |              |                |              |                |
| 382 | 4.5.A Meetings   | #DIV/0!        | 0           | \$0            | \$0            | \$0           | \$0          | \$0            | \$0          | \$0            |
| 383 | 4.5.B General Oversight  | #DIV/0!        | 0           | \$0            | \$0            | \$0           | \$0          | \$0            | \$0          | \$0            |
| 384 | 4.5.C Project Set Up   | #DIV/0!        | 0           | \$0            | \$0            | \$0           | \$0          | \$0            | \$0          | \$0            |
| 385 | 4.5.D Non Routine (Soft) Items   | #DIV/0!        | 0           | \$0            | \$0            | \$0           | \$0          | \$0            | \$0          | \$0            |
| 386 |  |                |             |                |                |               |              |                |              |                |
| 387 | Subtotal 4.5 Project Mangement for FE and R/W Phase                    | #DIV/0!        | 0           | \$0            | \$0            | \$0           | \$0          | \$0            | \$0          | \$0            |
| 388 |  |                |             |                |                |               |              |                |              |                |
| 389 |  |                |             |                |                |               |              |                |              |                |
| 390 | <b>SUBTOTAL Phase 4</b>  | <b>#DIV/0!</b> | <b>0</b>    | <b>\$0</b>     | <b>\$0</b>     | <b>\$0</b>    | <b>\$0</b>   | <b>\$4,975</b> | <b>\$0</b>   | <b>\$4,975</b> |
| 391 |  |                |             |                |                |               |              |                |              |                |
| 392 |  |                |             |                |                |               |              |                |              |                |
| 393 | <b>SUBTOTAL Phases 1-4</b>   | <b>\$55.05</b> | <b>21</b>   | <b>\$1,156</b> | <b>\$1,488</b> | <b>\$3</b>    | <b>\$0</b>   | <b>\$4,975</b> | <b>\$328</b> | <b>\$7,949</b> |
| 394 |  |                |             |                |                |               |              |                |              |                |
| 395 |  |                |             |                |                |               |              |                |              |                |
| 396 | <b>If Authorized Items</b>   |                |             |                |                |               |              |                |              |                |
| 397 |  |                |             |                |                |               |              |                |              |                |
| 398 | <b>Task 4.6 Pre-Bid Activities</b>                                     |                |             |                |                |               |              |                |              |                |
| 399 | 4.6.A Pre-Bid Questions  | #DIV/0!        | 0           | \$0            | \$0            | \$0           | \$0          | \$0            | \$0          | \$0            |
| 400 |  |                |             |                |                |               |              |                |              |                |
| 401 | Subtotal 4.6 Pre-Bid Activities  | #DIV/0!        | 0           | \$0            | \$0            | \$0           | \$0          | \$0            | \$0          | \$0            |
| 402 |  |                |             |                |                |               |              |                |              |                |
| 403 | <b>Task 4.7 Plan Revisions due to R/W Negotiations</b>                 |                |             |                |                |               |              |                |              |                |
| 404 | 4.7.A Plan Revisions due to R/W Negotiations                           | #DIV/0!        | 0           | \$0            | \$0            | \$0           | \$0          | \$0            | \$0          | \$0            |

## SUMMARY OF STEPS

|     | A   | C           | D           | E           | F              | G             | H            | I            | J       | K          |
|-----|---|-------------|-------------|-------------|----------------|---------------|--------------|--------------|---------|------------|
|     | Task Description  | Hourly Rate | Total Hours | Labor Costs | Overhead Costs | Cost of Money | Direct Costs | Subcon Costs | Net Fee | Total Cost |
| 405 | Subtotal 4.7 Plan Revisions due to R/W Negotiations         | #DIV/0!     | 0           | \$0         | \$0            | \$0           | \$0          | \$0          | \$0     | \$0        |
| 407 |   |             |             |             |                |               |              |              |         |            |
| 408 | Task 4.8 Temporary Staking for Utilities and Appraisals     |             |             |             |                |               |              |              |         |            |
| 409 | 4.8.A Temporary Staking for Utilities and Appraisals        | #DIV/0!     | 0           | \$0         | \$0            | \$0           | \$0          | \$0          | \$0     | \$0        |
| 410 |   |             |             |             |                |               |              |              |         |            |
| 411 | Subtotal 4.8 Temporary Staking for Utilities and Appraisals | #DIV/0!     | 0           | \$0         | \$0            | \$0           | \$0          | \$0          | \$0     | \$0        |
| 412 |   |             |             |             |                |               |              |              |         |            |
| 413 | Task 4.9 Setting R/W Pins after Acquisition                 |             |             |             |                |               |              |              |         |            |
| 414 | 4.9.A Setting R/W Pins after Acquisition                    | #DIV/0!     | 0           | \$0         | \$0            | \$0           | \$0          | \$0          | \$0     | \$0        |
| 415 |   |             |             |             |                |               |              |              |         |            |
| 416 | Subtotal 4.9 Setting R/W Pins after Acquisition             | #DIV/0!     | 0           | \$0         | \$0            | \$0           | \$0          | \$0          | \$0     | \$0        |
| 417 |   |             |             |             |                |               |              |              |         |            |
| 418 | Task 5.1 On-Going Services During Construction              |             |             |             |                |               |              |              |         |            |
| 419 | 5.1.A On-Going Services During Construction                 | #DIV/0!     | 0           | \$0         | \$0            | \$0           | \$0          | \$0          | \$0     | \$0        |
| 420 |   |             |             |             |                |               |              |              |         |            |
| 421 | Subtotal 5.1 On-Going Services During Construction          | #DIV/0!     | 0           | \$0         | \$0            | \$0           | \$0          | \$0          | \$0     | \$0        |
| 422 |   |             |             |             |                |               |              |              |         |            |
| 423 | SUBTOTAL If Authorized Items                                | #DIV/0!     | 0           | \$0         | \$0            | \$0           | \$0          | \$0          | \$0     | \$0        |
| 424 |   |             |             |             |                |               |              |              |         |            |
| 425 |   |             |             |             |                |               |              |              |         |            |
| 426 | SUBTOTAL Phases 1-4 and If Authorized Items                 | \$55.05     | 21          | \$1,156     | \$1,488        | \$3           | \$0          | \$4,975      | \$328   | \$7,949    |
| 427 |   |             |             |             |                |               |              |              |         |            |
| 428 |   |             |             |             |                |               |              |              |         |            |

|    | A   | B     | H        | I         | J          | K                 | L          | M          | N        | O                   | P                   | Q           | R | S |
|----|---|-------|----------|-----------|------------|-------------------|------------|------------|----------|---------------------|---------------------|-------------|---|---|
| 1  | DETAILED BREAKDOWN OF PROPOSED TOTAL HOURS, PERSONNEL CATEGORIES,                           |       |          |           |            | Proposal Date     | 6/23/2022  |            |          |                     |                     |             |   |   |
| 2  | AND LABOR RATES FOR   |       |          |           |            | Revised Date      | 8/23/2022  |            |          |                     |                     |             |   |   |
| 3  | Project: ERI-Perkins Avenue   |       |          |           |            | Modification Date | 10/25/2023 |            |          |                     |                     |             |   |   |
| 4  | PID No. 113959  |       |          |           |            |                   |            |            |          |                     |                     |             |   |   |
| 5  |   |       |          |           |            |                   |            |            |          |                     |                     |             |   |   |
| 6  |   |       |          |           |            |                   |            |            |          |                     |                     |             |   |   |
| 7  | CONSULTANT: Bramhall Engineering and Surveying Company                                      |       |          |           |            | HOURLY RATES      |            |            |          |                     |                     |             |   |   |
| 8  |   |       |          |           |            | Principal         |            |            |          | \$90.00             |                     |             |   |   |
| 9  | PROJECT DESCRIPTION: Roadway Resurfacing, Sidewalk Installation, and Waterline Installation |       |          |           |            | Proj Mgr          |            |            |          | \$54.00             |                     |             |   |   |
| 10 |   |       |          |           |            | Senior Engr       |            |            |          | \$49.50             |                     |             |   |   |
| 11 |   |       |          |           |            | Proj Engr         |            |            |          | \$45.00             |                     |             |   |   |
| 12 | Task included in Modification #1  |       |          |           |            | Technician        |            |            |          | \$28.00             |                     |             |   |   |
| 13 |   |       |          |           |            | Clerical          |            |            |          | \$27.00             |                     |             |   |   |
| 14 |   |       |          |           |            | Survey Manager    |            |            |          | \$60.00             |                     |             |   |   |
| 15 |   |       |          |           |            | R/W Tech          |            |            |          | \$41.00             |                     |             |   |   |
| 16 |   |       |          |           |            | Survey Crew       |            |            |          | \$66.00             |                     |             |   |   |
| 17 |   |       |          |           |            |                   |            |            |          |                     |                     |             |   |   |
| 18 |   |       |          |           |            |                   |            |            |          |                     |                     |             |   |   |
| 19 |   |       |          |           |            |                   |            |            |          |                     |                     |             |   |   |
| 20 | Task Description  | Prin. | Proj Mgr | Sr. Engr. | Proj. Engr | Tech              | Clerical   | Survey Mgr | R/W Tech | 2 Pers. Survey Crew | Overall Total Hours | Labor Costs |   |   |
| 21 | Phase I - Planning Phase  |       |          |           |            |                   |            |            |          |                     |                     |             |   |   |
| 22 |   |       |          |           |            |                   |            |            |          |                     |                     |             |   |   |
| 23 |   |       |          |           |            |                   |            |            |          |                     |                     |             |   |   |
| 24 | Task 1.1 Project Start-Up   |       |          |           |            |                   |            |            |          |                     |                     |             |   |   |
| 25 | 1.1.A Planning and Programming  | 0     | 0        | 0         | 0          | 0                 | 0          | 0          | 0        | 0                   | 0                   | \$0         |   |   |
| 26 | 1.1.B STIP/TIP  | 0     | 0        | 0         | 0          | 0                 | 0          | 0          | 0        | 0                   | 0                   | \$0         |   |   |
| 27 | 1.1.C Internal Meeting with Project Sponsor and ODOT Staff                                  | 0     | 0        | 0         | 0          | 0                 | 0          | 0          | 0        | 0                   | 0                   | \$0         |   |   |
| 28 |   |       |          |           |            |                   |            |            |          |                     |                     |             |   |   |
| 29 | Subtotal 1.1 Project Start-Up   | 0     | 0        | 0         | 0          | 0                 | 0          | 0          | 0        | 0                   | 0                   | \$0         |   |   |
| 30 |   |       |          |           |            |                   |            |            |          |                     |                     |             |   |   |
| 31 | Task 1.2 Project Initiation Package   |       |          |           |            |                   |            |            |          |                     |                     |             |   |   |
| 32 | 1.2.A Define Study Area and Logical Termini   | 0     | 0        | 0         | 0          | 0                 | 0          | 0          | 0        | 0                   | 0                   | \$0         |   |   |
| 33 | 1.2.B Conduct Field Review (walk through)   | 0     | 0        | 0         | 0          | 0                 | 0          | 0          | 0        | 0                   | 0                   | \$0         |   |   |
| 34 | 1.2.C Identify Discipline Specific Issues for Project Initiation Package                    | 0     | 0        | 0         | 0          | 0                 | 0          | 0          | 0        | 0                   | 0                   | \$0         |   |   |
| 35 | 1.2.D Project Initiation Package Preparation and Submittal                                  | 0     | 0        | 0         | 0          | 0                 | 0          | 0          | 0        | 0                   | 0                   | \$0         |   |   |
| 36 | 1.2.E Aerial/Base mapping coordination with ODOT  | 0     | 0        | 0         | 0          | 0                 | 0          | 0          | 0        | 0                   | 0                   | \$0         |   |   |
| 37 | 1.2.F Concept, Scope, and Budget Estimates  | 0     | 0        | 0         | 0          | 0                 | 0          | 0          | 0        | 0                   | 0                   | \$0         |   |   |
| 38 |   |       |          |           |            |                   |            |            |          |                     |                     |             |   |   |
| 39 | Subtotal 1.2 Project Initiation Package   | 0     | 0        | 0         | 0          | 0                 | 0          | 0          | 0        | 0                   | 0                   | \$0         |   |   |
| 40 |   |       |          |           |            |                   |            |            |          |                     |                     |             |   |   |
| 41 | Task 1.3 Existing Data, Research, and Analysis  |       |          |           |            |                   |            |            |          |                     |                     |             |   |   |
| 42 | 1.3.A Transportation and Land Use Plans   | 0     | 0        | 0         | 0          | 0                 | 0          | 0          | 0        | 0                   | 0                   | \$0         |   |   |
| 43 | 1.3.B Crash Analysis  | 0     | 0        | 0         | 0          | 0                 | 0          | 0          | 0        | 0                   | 0                   | \$0         |   |   |
| 44 | 1.3.C Traffic Counts  | 0     | 0        | 0         | 0          | 0                 | 0          | 0          | 0        | 0                   | 0                   | \$0         |   |   |
| 45 | 1.3.D Planning Level Traffic - No Build Condition   | 0     | 0        | 0         | 0          | 0                 | 0          | 0          | 0        | 0                   | 0                   | \$0         |   |   |
| 46 | 1.3.E Certified Traffic - No Build Condition  | 0     | 0        | 0         | 0          | 0                 | 0          | 0          | 0        | 0                   | 0                   | \$0         |   |   |
| 47 | 1.3.F Capacity Analysis - Existing Conditions   | 0     | 0        | 0         | 0          | 0                 | 0          | 0          | 0        | 0                   | 0                   | \$0         |   |   |
| 48 | 1.3.G Develop Purpose & Need  | 0     | 0        | 0         | 0          | 0                 | 0          | 0          | 0        | 0                   | 0                   | \$0         |   |   |
| 49 |   |       |          |           |            |                   |            |            |          |                     |                     |             |   |   |
| 50 | Subtotal 1.3 Existing Data, Research, and Analysis  | 0     | 0        | 0         | 0          | 0                 | 0          | 0          | 0        | 0                   | 0                   | \$0         |   |   |
| 51 |   |       |          |           |            |                   |            |            |          |                     |                     |             |   |   |
| 52 | Task 1.4 Stakeholder Involvement and Public Involvement Plan                                |       |          |           |            |                   |            |            |          |                     |                     |             |   |   |
| 53 | 1.4.A Public Involvement Plan   | 0     | 0        | 0         | 0          | 0                 | 0          | 0          | 0        | 0                   | 0                   | \$0         |   |   |
| 54 |   |       |          |           |            |                   |            |            |          |                     |                     |             |   |   |
| 55 | Subtotal 1.4 Stakeholder Involvement and PIP  | 0     | 0        | 0         | 0          | 0                 | 0          | 0          | 0        | 0                   | 0                   | \$0         |   |   |
| 56 |   |       |          |           |            |                   |            |            |          |                     |                     |             |   |   |
| 57 | Task 1.5 Project Management for Planning Phase  |       |          |           |            |                   |            |            |          |                     |                     |             |   |   |
| 58 | 1.5.A Meetings  | 0     | 0        | 0         | 0          | 0                 | 0          | 0          | 0        | 0                   | 0                   | \$0         |   |   |
| 59 | 1.5.B General Oversight   | 0     | 0        | 0         | 0          | 0                 | 0          | 0          | 0        | 0                   | 0                   | \$0         |   |   |
| 60 | 1.5.C Project Set Up  | 0     | 0        | 0         | 0          | 0                 | 0          | 0          | 0        | 0                   | 0                   | \$0         |   |   |
| 61 | 1.5.D Non Routine (Soft) Items  | 0     | 0        | 0         | 0          | 0                 | 0          | 0          | 0        | 0                   | 0                   | \$0         |   |   |
| 62 |   |       |          |           |            |                   |            |            |          |                     |                     |             |   |   |
| 63 | Subtotal 1.5 Project Management for Planning Phase  | 0     | 0        | 0         | 0          | 0                 | 0          | 0          | 0        | 0                   | 0                   | \$0         |   |   |
| 64 |   |       |          |           |            |                   |            |            |          |                     |                     |             |   |   |
| 65 | Task 1.6 Limited Review   |       |          |           |            |                   |            |            |          |                     |                     |             |   |   |
| 66 | 1.6.A QA/QC for Limited Review  | 0     | 0        | 0         | 0          | 0                 | 0          | 0          | 0        | 0                   | 0                   | \$0         |   |   |
| 67 |   |       |          |           |            |                   |            |            |          |                     |                     |             |   |   |
| 68 | Subtotal 1.6 Subtotal Limited Review  | 0     | 0        | 0         | 0          | 0                 | 0          | 0          | 0        | 0                   | 0                   | \$0         |   |   |
| 69 |   |       |          |           |            |                   |            |            |          |                     |                     |             |   |   |
| 70 | SUBTOTAL Phase 1  | 0     | 0        | 0         | 0          | 0                 | 0          | 0          | 0        | 0                   | 0                   | \$0         |   |   |
| 71 |   |       |          |           |            |                   |            |            |          |                     |                     |             |   |   |
| 72 |   |       |          |           |            |                   |            |            |          |                     |                     |             |   |   |
| 73 |   |       |          |           |            |                   |            |            |          |                     |                     |             |   |   |

|     | A  | B     | H        | I         | J         | K    | L        | M          | N        | O           | P           | Q           | R | S |
|-----|--|-------|----------|-----------|-----------|------|----------|------------|----------|-------------|-------------|-------------|---|---|
| 19  |  |       |          |           |           |      |          |            |          |             |             |             |   |   |
| 20  | Task Description   | Prin. | Proj Mgr | Sr. Engr. | Proj Engr | Tech | Clerical | Survey Mgr | R/W Tech | Survey Crew | Total Hours | Labor Costs |   |   |
| 74  |  |       |          |           |           |      |          |            |          |             |             |             |   |   |
| 75  | Phase 2 - Preliminary Engineering Phase                                |       |          |           |           |      |          |            |          |             |             |             |   |   |
| 76  |  |       |          |           |           |      |          |            |          |             |             |             |   |   |
| 77  |  |       |          |           |           |      |          |            |          |             |             |             |   |   |
| 78  | Task 2.1 Develop Preliminary Alternatives                              |       |          |           |           |      |          |            |          |             |             |             |   |   |
| 79  | 2.1.A Prepare Feasibility Study Report                                 |       |          |           |           |      |          |            |          |             |             |             |   |   |
| 80  | 2.1.A.A Planning Level Traffic for Feasible Alternatives               | 0     | 0        | 0         | 0         | 0    | 0        | 0          | 0        | 0           | 0           | \$0         |   |   |
| 81  | 2.1.A.B Capacity Analysis for Alternatives                             | 0     | 0        | 0         | 0         | 0    | 0        | 0          | 0        | 0           | 0           | \$0         |   |   |
| 82  | 2.1.A.C Field Survey and Aerial Mapping - Planning Level               | 0     | 0        | 0         | 0         | 0    | 0        | 0          | 0        | 0           | 0           | \$0         |   |   |
| 83  | 2.1.A.D Typical Section  | 0     | 0        | 0         | 0         | 0    | 0        | 0          | 0        | 0           | 0           | \$0         |   |   |
| 84  | 2.1.A.E Preliminary Alignment and Profile                              | 0     | 0        | 0         | 0         | 0    | 0        | 0          | 0        | 0           | 0           | \$0         |   |   |
| 85  | 2.1.A.F Cross-Sections   | 0     | 0        | 0         | 0         | 0    | 0        | 0          | 0        | 0           | 0           | \$0         |   |   |
| 86  | 2.1.A.G Mapping  | 0     | 0        | 0         | 0         | 0    | 0        | 0          | 0        | 0           | 0           | \$0         |   |   |
| 87  | 2.1.A.H Stakeholder Public Involvement                                 | 0     | 0        | 0         | 0         | 0    | 0        | 0          | 0        | 0           | 0           | \$0         |   |   |
| 88  | 2.1.A.I Prepare Feasibility Study                                      | 0     | 0        | 0         | 0         | 0    | 0        | 0          | 0        | 0           | 0           | \$0         |   |   |
| 89  |  |       |          |           |           |      |          |            |          |             |             |             |   |   |
| 90  | Subtotal 2.1 Develop Preliminary Alternatives                          | 0     | 0        | 0         | 0         | 0    | 0        | 0          | 0        | 0           | 0           | \$0         |   |   |
| 91  |  |       |          |           |           |      |          |            |          |             |             |             |   |   |
| 92  |  |       |          |           |           |      |          |            |          |             |             |             |   |   |
| 93  | Task 2.2 Perform Environmental Field Studies                           |       |          |           |           |      |          |            |          |             |             |             |   |   |
| 94  | 2.2.A Property Owner Notification                                      | 0     | 0        | 0         | 0         | 0    | 0        | 0          | 0        | 0           | 0           | \$0         |   |   |
| 95  | 2.2.B Phase I Cultural Resource History/Architecture Survey            | 0     | 0        | 0         | 0         | 0    | 0        | 0          | 0        | 0           | 0           | \$0         |   |   |
| 96  | 2.2.C Ecological Survey Report   | 0     | 0        | 0         | 0         | 0    | 0        | 0          | 0        | 0           | 0           | \$0         |   |   |
| 97  | 2.2.D Environmental Site Assessment Screening                          | 0     | 0        | 0         | 0         | 0    | 0        | 0          | 0        | 0           | 0           | \$0         |   |   |
| 98  | 2.2.E Social and Economic Resources                                    | 0     | 0        | 0         | 0         | 0    | 0        | 0          | 0        | 0           | 0           | \$0         |   |   |
| 99  | 2.2.F 4(f) determinations  | 0     | 0        | 0         | 0         | 0    | 0        | 0          | 0        | 0           | 0           | \$0         |   |   |
| 100 | 2.2.G Noise Analysis   | 0     | 0        | 0         | 0         | 0    | 0        | 0          | 0        | 0           | 0           | \$0         |   |   |
| 101 | 2.2.H Noise Analysis - Public Involvement                              | 0     | 0        | 0         | 0         | 0    | 0        | 0          | 0        | 0           | 0           | \$0         |   |   |
| 102 |  |       |          |           |           |      |          |            |          |             |             |             |   |   |
| 103 | Subtotal 2.2 Perform Environmental Field Studies                       | 0     | 0        | 0         | 0         | 0    | 0        | 0          | 0        | 0           | 0           | \$0         |   |   |
| 104 |  |       |          |           |           |      |          |            |          |             |             |             |   |   |
| 105 | Task 2.3 AER Design  |       |          |           |           |      |          |            |          |             |             |             |   |   |
| 106 | 2.3.A Field Survey and Aerial Mapping                                  |       |          |           |           |      |          |            |          |             |             |             |   |   |
| 107 | 2.3.A.A Project Control, Benchmarks, and Reference Points              | 0     | 0        | 0         | 0         | 0    | 0        | 0          | 0        | 0           | 0           | \$0         |   |   |
| 108 | 2.3.A.B Monumentation Recovery   | 0     | 0        | 0         | 0         | 0    | 0        | 1          | 2        | 4           | 7           | \$406       |   |   |
| 109 | 2.3.A.C Base Mapping (incl. field verify)                              | 0     | 0        | 0         | 0         | 0    | 0        | 0          | 4        | 4           | 8           | \$428       |   |   |
| 110 | 2.3.A.D Drainage Survey (stream cross sections)                        | 0     | 0        | 0         | 0         | 0    | 0        | 0          | 0        | 0           | 0           | \$0         |   |   |
| 111 | 2.3.A.E Establish property lines, tax ID, & ownerships on base map     | 0     | 0        | 0         | 0         | 0    | 0        | 0          | 0        | 0           | 0           | \$0         |   |   |
| 112 | 2.3.A.F Property Owner Notification                                    | 0     | 0        | 0         | 0         | 0    | 0        | 0          | 0        | 0           | 0           | \$0         |   |   |
| 113 |  |       |          |           |           |      |          |            |          |             |             |             |   |   |
| 114 | 2.3.B Roadway  |       |          |           |           |      |          |            |          |             |             |             |   |   |
| 115 | 2.3.B.A Design Criteria  | 0     | 0        | 0         | 0         | 0    | 0        | 0          | 0        | 0           | 0           | \$0         |   |   |
| 116 | 2.3.B.B Conceptual Typical Sections                                    | 0     | 0        | 0         | 0         | 0    | 0        | 0          | 0        | 0           | 0           | \$0         |   |   |
| 117 | 2.3.B.C Horizontal Alignment and Vertical Profile - Mainline           | 0     | 0        | 0         | 0         | 0    | 0        | 0          | 0        | 0           | 0           | \$0         |   |   |
| 118 | 2.3.B.D Conceptual Cross Sections                                      | 0     | 0        | 0         | 0         | 0    | 0        | 0          | 0        | 0           | 0           | \$0         |   |   |
| 119 | 2.3.B.E Identify Construction Limits                                   | 0     | 0        | 0         | 0         | 0    | 0        | 0          | 0        | 0           | 0           | \$0         |   |   |
| 120 |  |       |          |           |           |      |          |            |          |             |             |             |   |   |
| 121 | 2.3.C Drainage   |       |          |           |           |      |          |            |          |             |             |             |   |   |
| 122 | 2.3.C.A Drainage Design Criteria Forms (LD-35)                         | 0     | 0        | 0         | 0         | 0    | 0        | 0          | 0        | 0           | 0           | \$0         |   |   |
| 123 | 2.3.C.B LD-33 Form (Contact County Engineer)                           | 0     | 0        | 0         | 0         | 0    | 0        | 0          | 0        | 0           | 0           | \$0         |   |   |
| 124 | 2.3.C.C Hydraulically size all major storm sewer trunk lines           | 0     | 0        | 0         | 0         | 0    | 0        | 0          | 0        | 0           | 0           | \$0         |   |   |
| 125 | 2.3.C.D Perform preliminary hydraulic analysis for culverts            | 0     | 0        | 0         | 0         | 0    | 0        | 0          | 0        | 0           | 0           | \$0         |   |   |
| 126 | 2.3.C.E Conceptual BMP   | 0     | 0        | 0         | 0         | 0    | 0        | 0          | 0        | 0           | 0           | \$0         |   |   |
| 127 | 2.3.C.F Estimate impact to wetlands, streams, & other regulated waters | 0     | 0        | 0         | 0         | 0    | 0        | 0          | 0        | 0           | 0           | \$0         |   |   |
| 128 |  |       |          |           |           |      |          |            |          |             |             |             |   |   |
| 129 | 2.3.D Maintenance of Traffic   |       |          |           |           |      |          |            |          |             |             |             |   |   |
| 130 | 2.3.D.A Conceptual MOT Plan (without MOTAA)                            | 0     | 0        | 0         | 0         | 0    | 0        | 0          | 0        | 0           | 0           | \$0         |   |   |
| 131 |  |       |          |           |           |      |          |            |          |             |             |             |   |   |
| 132 | 2.3.E Utilities  |       |          |           |           |      |          |            |          |             |             |             |   |   |
| 133 | 2.3.E.A Utility Coordination and Documentation                         | 0     | 0        | 0         | 0         | 0    | 0        | 0          | 0        | 0           | 0           | \$0         |   |   |
| 134 | 2.3.E.B Subsurface Utility Engineering                                 | 0     | 0        | 0         | 0         | 0    | 0        | 0          | 0        | 0           | 0           | \$0         |   |   |
| 135 |  |       |          |           |           |      |          |            |          |             |             |             |   |   |
| 136 | 2.3.F Miscellaneous  |       |          |           |           |      |          |            |          |             |             |             |   |   |
| 137 | 2.3.F.A Identify and coordinate impacts on FEMA flood zones            | 0     | 0        | 0         | 0         | 0    | 0        | 0          | 0        | 0           | 0           | \$0         |   |   |
| 138 | 2.3.F.B. Determine need for Design Exception                           | 0     | 0        | 0         | 0         | 0    | 0        | 0          | 0        | 0           | 0           | \$0         |   |   |
| 139 |  |       |          |           |           |      |          |            |          |             |             |             |   |   |
| 140 | Subtotal 2.3 AER Design  | 0     | 0        | 0         | 0         | 0    | 0        | 1          | 6        | 8           | 15          | \$834       |   |   |
| 141 |  |       |          |           |           |      |          |            |          |             |             |             |   |   |
| 142 | Task 2.4 Prepare Cost Estimates  |       |          |           |           |      |          |            |          |             |             |             |   |   |
| 143 | 2.4.A Roadway/Interchange Costs  | 0     | 0        | 0         | 0         | 0    | 0        | 0          | 0        | 0           | 0           | \$0         |   |   |
| 144 | 2.4.B Right of Way Costs   | 0     | 0        | 0         | 0         | 0    | 0        | 0          | 0        | 0           | 0           | \$0         |   |   |
| 145 | 2.4.C Utility  | 0     | 0        | 0         | 0         | 0    | 0        | 0          | 0        | 0           | 0           | \$0         |   |   |
| 146 |  |       |          |           |           |      |          |            |          |             |             |             |   |   |
| 147 | Subtotal 2.4 Prepare Cost Estimates                                    | 0     | 0        | 0         | 0         | 0    | 0        | 0          | 0        | 0           | 0           | \$0         |   |   |
| 148 |  |       |          |           |           |      |          |            |          |             |             |             |   |   |
| 149 | Task 2.5 AER Submittal and Other Studies                               |       |          |           |           |      |          |            |          |             |             |             |   |   |
| 150 | 2.5.A Prepare Alternative Evaluation Report                            | 0     | 0        | 0         | 0         | 0    | 0        | 0          | 0        | 0           | 0           | \$0         |   |   |
| 151 | 2.5.B Certified Traffic for Preferred Alternative                      | 0     | 0        | 0         | 0         | 0    | 0        | 0          | 0        | 0           | 0           | \$0         |   |   |
| 152 | 2.5.C Prepare Access Point Request (IMS/US)                            | 0     | 0        | 0         | 0         | 0    | 0        | 0          | 0        | 0           | 0           | \$0         |   |   |
| 153 | 2.5.D Structures   | 0     | 0        | 0         | 0         | 0    | 0        | 0          | 0        | 0           | 0           | \$0         |   |   |
| 154 | 2.5.D.A Bridge Structure Type Study (break out each bridge separately) | 0     | 0        | 0         | 0         | 0    | 0        | 0          | 0        | 0           | 0           | \$0         |   |   |
| 155 | 2.5.D.B Complete bridge hydraulic study and scour analysis             | 0     | 0        | 0         | 0         | 0    | 0        | 0          | 0        | 0           | 0           | \$0         |   |   |
| 156 | 2.5.E Retaining wall justification                                     | 0     | 0        | 0         | 0         | 0    | 0        | 0          | 0        | 0           | 0           | \$0         |   |   |
| 157 |  |       |          |           |           |      |          |            |          |             |             |             |   |   |
| 158 | Subtotal 2.5 AER Submittal and Other Studies                           | 0     | 0        | 0         | 0         | 0    | 0        | 0          | 0        | 0           | 0           | \$0         |   |   |
| 159 |  |       |          |           |           |      |          |            |          |             |             |             |   |   |
| 160 | Task 2.6 Public Involvement/Coordination                               |       |          |           |           |      |          |            |          |             |             |             |   |   |
| 161 | 2.6.A Public Involvement Meeting                                       | 0     | 0        | 0         | 0         | 0    | 0        | 0          | 0        | 0           | 0           | \$0         |   |   |
| 162 |  |       |          |           |           |      |          |            |          |             |             |             |   |   |
| 163 | Subtotal 2.6 Public Involvement/Coordination                           | 0     | 0        | 0         | 0         | 0    | 0        | 0          | 0        | 0           | 0           | \$0         |   |   |
| 164 |  |       |          |           |           |      |          |            |          |             |             |             |   |   |
| 165 | Task 2.7 Stage 1 Design  |       |          |           |           |      |          |            |          |             |             |             |   |   |
| 166 | 2.7.A Roadway  |       |          |           |           |      |          |            |          |             |             |             |   |   |
| 167 | 2.7.A.A Title Sheet  | 0     | 0        | 0         | 0         | 0    | 0        | 0          | 0        | 0           | 0           | \$0         |   |   |
| 168 | 2.7.A.B Schematic Plan   | 0     | 0        | 0         | 0         | 0    | 0        | 0          | 0        | 0           | 0           | \$0         |   |   |
| 169 | 2.7.A.C General Notes  | 0     | 0        | 0         | 0         | 0    | 0        | 0          | 0        | 0           | 0           | \$0         |   |   |
| 170 | 2.7.A.D Typical Sections   | 0     | 0        | 0         | 0         | 0    | 0        | 0          | 0        | 0           | 0           | \$0         |   |   |
| 171 | 2.7.A.E Cross Sections   | 0     | 0        | 0         | 0         | 0    | 0        | 0          | 0        | 0           | 0           | \$0         |   |   |
| 172 | 2.7.A.F Plan and Profile - Mainline                                    | 0     | 0        | 0         | 0         | 0    | 0        | 0          | 0        | 0           | 0           | \$0         |   |   |
| 173 | 2.7.A.G Plan and Profile - Crossroads                                  | 0     | 0        | 0         | 0         | 0    | 0        | 0          | 0        | 0           | 0           | \$0         |   |   |
| 174 | 2.7.A.H Plan and Profile - Ramps                                       | 0     | 0        | 0         | 0         | 0    | 0        | 0          | 0        | 0           | 0           | \$0         |   |   |
| 175 | 2.7.A.I Superelevation Table   | 0     | 0        | 0         | 0         | 0    | 0        | 0          | 0        | 0           | 0           | \$0         |   |   |
| 176 | 2.7.A.J Intersection Details   | 0     | 0        | 0         | 0         | 0    | 0        | 0          | 0        | 0           | 0           | \$0         |   |   |
| 177 | 2.7.A.K Update Interchange Geometrics & Details                        | 0     | 0        | 0         | 0         | 0    | 0        | 0          | 0        | 0           | 0           | \$0         |   |   |
| 178 | 2.7.A.L Driveway Details   | 0     | 0        | 0         | 0         | 0    | 0        | 0          | 0        | 0           | 0           | \$0         |   |   |
| 179 | 2.7.A.M Design Exception Request                                       | 0     | 0        | 0         | 0         | 0    | 0        | 0          | 0        | 0           | 0           | \$0         |   |   |
| 180 | 2.7.A.N Traffic Control  | 0     | 0        | 0         | 0         | 0    | 0        | 0          | 0        | 0           | 0           | \$0         |   |   |
| 181 |  |       |          |           |           |      |          |            |          |             |             |             |   |   |

|     | A   | B | H        | I        | J         | K         | L        | M        | N          | O        | P           | Q           | R            | S |
|-----|---|---|----------|----------|-----------|-----------|----------|----------|------------|----------|-------------|-------------|--------------|---|
| 19  |   |   |          |          |           |           |          |          |            |          |             |             |              |   |
| 20  | Task Description  |   | Prin.    | Proj Mgr | Sr. Engr. | Proj Engr | Tech     | Clerical | Survey Mgr | R/W Tech | Survey Crew | Total Hours | Labor Costs  |   |
| 182 | 2.7.B Drainage  |   |          |          |           |           |          |          |            |          |             |             |              |   |
| 183 | 2.7.B.A Storm Sewer Profiles  |   | 0        | 0        | 0         | 0         | 0        | 0        | 0          | 0        | 0           | 0           | \$0          |   |
| 184 | 2.7.B.B Culvert Detail Sheet  |   | 0        | 0        | 0         | 0         | 0        | 0        | 0          | 0        | 0           | 0           | \$0          |   |
| 185 | 2.7.B.C Channel Relocation Details & Section Sheets                   |   | 0        | 0        | 0         | 0         | 0        | 0        | 0          | 0        | 0           | 0           | \$0          |   |
| 186 | 2.7.B.D Drainage Calculations   |   | 0        | 0        | 0         | 0         | 0        | 0        | 0          | 0        | 0           | 0           | \$0          |   |
| 187 | 2.7.B.E BMP Design  |   | 0        | 0        | 0         | 0         | 0        | 0        | 0          | 0        | 0           | 0           | \$0          |   |
| 188 |   |   |          |          |           |           |          |          |            |          |             |             |              |   |
| 189 | 2.7.C Utilities   |   |          |          |           |           |          |          |            |          |             |             |              |   |
| 190 | 2.7.C.A Utility Coordination and Documentation                        |   | 0        | 0        | 0         | 0         | 0        | 0        | 0          | 0        | 0           | 0           | \$0          |   |
| 191 | 2.7.C.B Description of proposed water and/or sewer work               |   | 0        | 0        | 0         | 0         | 0        | 0        | 0          | 0        | 0           | 0           | \$0          |   |
| 192 | 2.7.C.C Subsurface Utility Engineering (SUE)                          |   | 0        | 0        | 0         | 0         | 0        | 0        | 0          | 0        | 0           | 0           | \$0          |   |
| 193 |   |   |          |          |           |           |          |          |            |          |             |             |              |   |
| 194 | 2.7.D Geotechnical Services and Report                                |   |          |          |           |           |          |          |            |          |             |             |              |   |
| 195 | 2.7.D.A Geotechnical Services and Report                              |   | 0        | 0        | 0         | 0         | 0        | 0        | 0          | 0        | 0           | 0           | \$0          |   |
| 196 |   |   |          |          |           |           |          |          |            |          |             |             |              |   |
| 197 | 2.7.E Miscellaneous   |   |          |          |           |           |          |          |            |          |             |             |              |   |
| 198 | 2.7.E.A Perform Airway/Highway clearance analysis                     |   | 0        | 0        | 0         | 0         | 0        | 0        | 0          | 0        | 0           | 0           | \$0          |   |
| 199 |   |   |          |          |           |           |          |          |            |          |             |             |              |   |
| 200 | 2.7.F Prepare C2 Cost Estimates and Update Milestones                 |   |          |          |           |           |          |          |            |          |             |             |              |   |
| 201 | 2.7.F.A Roadway/Interchange Costs                                     |   | 0        | 0        | 0         | 0         | 0        | 0        | 0          | 0        | 0           | 0           | \$0          |   |
| 202 | 2.7.F.B Right of Way  |   | 0        | 0        | 0         | 0         | 0        | 0        | 0          | 0        | 0           | 0           | \$0          |   |
| 203 | 2.7.F.C Utility   |   | 0        | 0        | 0         | 0         | 0        | 0        | 0          | 0        | 0           | 0           | \$0          |   |
| 204 |   |   |          |          |           |           |          |          |            |          |             |             |              |   |
| 205 | 2.7.G Maintenance of Traffic  |   |          |          |           |           |          |          |            |          |             |             |              |   |
| 206 | 2.7.G.A Maintenance of Traffic General Notes                          |   | 0        | 0        | 0         | 0         | 0        | 0        | 0          | 0        | 0           | 0           | \$0          |   |
| 207 | 2.7.G.B Detour Plan   |   | 0        | 0        | 0         | 0         | 0        | 0        | 0          | 0        | 0           | 0           | \$0          |   |
| 208 |   |   |          |          |           |           |          |          |            |          |             |             |              |   |
| 209 | Subtotal 2.7 Stage 1 Design   |   | 0        | 0        | 0         | 0         | 0        | 0        | 0          | 0        | 0           | 0           | \$0          |   |
| 210 |   |   |          |          |           |           |          |          |            |          |             |             |              |   |
| 211 | Task 2.8 Project Management for Preliminary Engineering Phase         |   |          |          |           |           |          |          |            |          |             |             |              |   |
| 212 | 2.8.A Task List and Fee Proposal Preparation                          |   | 0        | 0        | 0         | 0         | 0        | 0        | 0          | 0        | 0           | 0           | \$0          |   |
| 213 | 2.8.B General Oversight   |   | 0        | 0        | 0         | 0         | 0        | 0        | 0          | 0        | 0           | 0           | \$0          |   |
| 214 | 2.8.C Project Set Up  |   | 0        | 0        | 0         | 0         | 0        | 0        | 0          | 0        | 0           | 0           | \$0          |   |
| 215 | 2.8.D Non Routine (Soft) Items  |   | 0        | 0        | 0         | 0         | 0        | 0        | 0          | 0        | 0           | 0           | \$0          |   |
| 216 |   |   |          |          |           |           |          |          |            |          |             |             |              |   |
| 217 | Subtotal 2.8 Project Management for PE Phase                          |   | 0        | 0        | 0         | 0         | 0        | 0        | 0          | 0        | 0           | 0           | \$0          |   |
| 218 |   |   |          |          |           |           |          |          |            |          |             |             |              |   |
| 219 | Task 2.9 Limited Review   |   |          |          |           |           |          |          |            |          |             |             |              |   |
| 220 | 2.9.A QA/QC for Limited Review  |   | 0        | 0        | 0         | 0         | 0        | 0        | 0          | 0        | 0           | 0           | \$0          |   |
| 221 |   |   |          |          |           |           |          |          |            |          |             |             |              |   |
| 222 | Subtotal 2.9 Limited Review   |   | 0        | 0        | 0         | 0         | 0        | 0        | 0          | 0        | 0           | 0           | \$0          |   |
| 223 |   |   |          |          |           |           |          |          |            |          |             |             |              |   |
| 224 | <b>SUBTOTAL Phase 2</b>   |   | <b>0</b> | <b>0</b> | <b>0</b>  | <b>0</b>  | <b>0</b> | <b>0</b> | <b>1</b>   | <b>6</b> | <b>8</b>    | <b>15</b>   | <b>\$834</b> |   |
| 225 |   |   |          |          |           |           |          |          |            |          |             |             |              |   |
| 226 | <b>Phase 3 - Environmental Engineering Phase</b>                      |   |          |          |           |           |          |          |            |          |             |             |              |   |
| 227 |   |   |          |          |           |           |          |          |            |          |             |             |              |   |
| 228 | Task 3.1 Environmental Field Studies and Refined Impacts              |   |          |          |           |           |          |          |            |          |             |             |              |   |
| 229 | 3.1.A Phase I Cultural Archaeological                                 |   | 0        | 0        | 0         | 0         | 0        | 0        | 0          | 0        | 0           | 0           | \$0          |   |
| 230 | 3.1.B Phase II Cultural Resource History/Architecture Survey          |   | 0        | 0        | 0         | 0         | 0        | 0        | 0          | 0        | 0           | 0           | \$0          |   |
| 231 | 3.1.C Section 4(f) Evaluation   |   | 0        | 0        | 0         | 0         | 0        | 0        | 0          | 0        | 0           | 0           | \$0          |   |
| 232 | 3.1.D Phase I Environmental Site Assessment                           |   | 0        | 0        | 0         | 0         | 0        | 0        | 0          | 0        | 0           | 0           | \$0          |   |
| 233 | 3.1.E Farmland Studies  |   | 0        | 0        | 0         | 0         | 0        | 0        | 0          | 0        | 0           | 0           | \$0          |   |
| 234 | 3.1.F Secondary and Cumulative Review                                 |   | 0        | 0        | 0         | 0         | 0        | 0        | 0          | 0        | 0           | 0           | \$0          |   |
| 235 | 3.1.G Biological Assessment for Federally Listed Species              |   | 0        | 0        | 0         | 0         | 0        | 0        | 0          | 0        | 0           | 0           | \$0          |   |
| 236 | 3.1.H Prepare Waterway Permit Determination Package/Permits           |   | 0        | 0        | 0         | 0         | 0        | 0        | 0          | 0        | 0           | 0           | \$0          |   |
| 237 | 3.1.I Phase II Environmental Site Assessment                          |   | 0        | 0        | 0         | 0         | 0        | 0        | 0          | 0        | 0           | 0           | \$0          |   |
| 238 | 3.1.J Mussel Survey   |   | 0        | 0        | 0         | 0         | 0        | 0        | 0          | 0        | 0           | 0           | \$0          |   |
| 239 |   |   |          |          |           |           |          |          |            |          |             |             |              |   |
| 240 | Subtotal 3.1 Environmental Field Studies and Refined Impacts          |   | 0        | 0        | 0         | 0         | 0        | 0        | 0          | 0        | 0           | 0           | \$0          |   |
| 241 |   |   |          |          |           |           |          |          |            |          |             |             |              |   |
| 242 | Task 3.2 Stage 1 Value Engineering                                    |   |          |          |           |           |          |          |            |          |             |             |              |   |
| 243 | 3.2.A Value Engineering Study and Report                              |   | 0        | 0        | 0         | 0         | 0        | 0        | 0          | 0        | 0           | 0           | \$0          |   |
| 244 |   |   |          |          |           |           |          |          |            |          |             |             |              |   |
| 245 | Subtotal 3.2 Stage 1 Value Engineering                                |   | 0        | 0        | 0         | 0         | 0        | 0        | 0          | 0        | 0           | 0           | \$0          |   |
| 246 |   |   |          |          |           |           |          |          |            |          |             |             |              |   |
| 247 | Task 3.3 Stage 2  |   |          |          |           |           |          |          |            |          |             |             |              |   |
| 248 | 3.3.A Roadway   |   |          |          |           |           |          |          |            |          |             |             |              |   |
| 249 | 3.3.A.A Title Sheet   |   | 0        | 0        | 0         | 0         | 0        | 0        | 0          | 0        | 0           | 0           | \$0          |   |
| 250 | 3.3.A.B Schematic   |   | 0        | 0        | 0         | 0         | 0        | 0        | 0          | 0        | 0           | 0           | \$0          |   |
| 251 | 3.3.A.C General Notes   |   | 0        | 0        | 0         | 0         | 0        | 0        | 0          | 0        | 0           | 0           | \$0          |   |
| 252 | 3.3.A.D Typical Sections  |   | 0        | 0        | 0         | 0         | 0        | 0        | 0          | 0        | 0           | 0           | \$0          |   |
| 253 | 3.3.A.E Plan and Profile - Mainline                                   |   | 0        | 0        | 0         | 0         | 0        | 0        | 0          | 0        | 0           | 0           | \$0          |   |
| 254 | 3.3.A.F Cross Sections  |   | 0        | 0        | 0         | 0         | 0        | 0        | 0          | 0        | 0           | 0           | \$0          |   |
| 255 | 3.3.A.G Intersection Details  |   | 0        | 0        | 0         | 0         | 0        | 0        | 0          | 0        | 0           | 0           | \$0          |   |
| 256 |   |   |          |          |           |           |          |          |            |          |             |             |              |   |
| 257 | 3.3.B Drainage  |   |          |          |           |           |          |          |            |          |             |             |              |   |
| 258 | 3.3.B.A Storm Sewer Profiles  |   | 0        | 0        | 0         | 0         | 0        | 0        | 0          | 0        | 0           | 0           | \$0          |   |
| 259 | 3.3.B.B Culvert Detail Sheets including headwall and wingwall details |   | 0        | 0        | 0         | 0         | 0        | 0        | 0          | 0        | 0           | 0           | \$0          |   |
| 260 | 3.3.B.C Channel Relocation Details                                    |   | 0        | 0        | 0         | 0         | 0        | 0        | 0          | 0        | 0           | 0           | \$0          |   |
| 261 | 3.3.B.D Underdrain details  |   | 0        | 0        | 0         | 0         | 0        | 0        | 0          | 0        | 0           | 0           | \$0          |   |
| 262 | 3.3.B.E BMP Details   |   | 0        | 0        | 0         | 0         | 0        | 0        | 0          | 0        | 0           | 0           | \$0          |   |
| 263 |   |   |          |          |           |           |          |          |            |          |             |             |              |   |
| 264 | 3.3.C Traffic Control   |   | 0        | 0        | 0         | 0         | 0        | 0        | 0          | 0        | 0           | 0           | \$0          |   |
| 265 |   |   |          |          |           |           |          |          |            |          |             |             |              |   |
| 266 | 3.3.E Maintenance of Traffic  |   |          |          |           |           |          |          |            |          |             |             |              |   |
| 267 | 3.3.E.A MOT General Notes   |   | 0        | 0        | 0         | 0         | 0        | 0        | 0          | 0        | 0           | 0           | \$0          |   |
| 268 | 3.3.E.B Detour Plan   |   | 0        | 0        | 0         | 0         | 0        | 0        | 0          | 0        | 0           | 0           | \$0          |   |
| 269 |   |   |          |          |           |           |          |          |            |          |             |             |              |   |
| 270 | 3.3.J Utilities   |   |          |          |           |           |          |          |            |          |             |             |              |   |
| 271 | 3.3.J.A Utility Coordination and Documentation                        |   | 0        | 0        | 0         | 0         | 0        | 0        | 0          | 0        | 0           | 0           | \$0          |   |
| 272 | 3.3.J.B Water Works Plan, Details, & Notes                            |   | 0        | 0        | 0         | 0         | 0        | 0        | 0          | 0        | 0           | 0           | \$0          |   |
| 273 | 3.3.J.C Sanitary Sewer Plans  |   | 0        | 0        | 0         | 0         | 0        | 0        | 0          | 0        | 0           | 0           | \$0          |   |
| 274 |   |   |          |          |           |           |          |          |            |          |             |             |              |   |
| 275 | 3.3.K Geotechnical Services   |   |          |          |           |           |          |          |            |          |             |             |              |   |
| 276 | 3.3.K.A Finalize Geotechnical Investigation and Report                |   | 0        | 0        | 0         | 0         | 0        | 0        | 0          | 0        | 0           | 0           | \$0          |   |
| 277 |   |   |          |          |           |           |          |          |            |          |             |             |              |   |
| 278 | Subtotal 3.3 Stage 2  |   | 0        | 0        | 0         | 0         | 0        | 0        | 0          | 0        | 0           | 0           | \$0          |   |
| 279 |   |   |          |          |           |           |          |          |            |          |             |             |              |   |

|     | A  | B     | H        | I         | J          | K    | L        | M          | N        | O           | P           | Q           | R | S |
|-----|--|-------|----------|-----------|------------|------|----------|------------|----------|-------------|-------------|-------------|---|---|
| 19  | Task Description   | Prin. | Proj Mgr | Sr. Engr. | Proj. Engr | Tech | Clerical | Survey Mgr | R/W Tech | Survey Crew | Total Hours | Labor Costs |   |   |
| 280 | Task 3.4 Right of Way Plans  |       |          |           |            |      |          |            |          |             |             |             |   |   |
| 281 | 3.4.A Conceptual Right of Way Plan Review                                | 0     | 0        | 0         | 0          | 0    | 0        | 0          | 0        | 0           | 0           | \$0         |   |   |
| 282 | 3.4.B Preliminary Right of Way Plans                                     |       |          |           |            |      |          |            |          |             |             |             |   |   |
| 283 | 3.4.B.A Legend Sheet   | 0     | 0        | 0         | 0          | 0    | 0        | 0          | 0        | 0           | 0           | \$0         |   |   |
| 284 | 3.4.B.B Centerline Survey Plat   | 0     | 0        | 0         | 0          | 0    | 0        | 0          | 0        | 0           | 0           | \$0         |   |   |
| 285 | 3.4.B.C Property Map   | 0     | 0        | 0         | 0          | 0    | 0        | 0          | 0        | 0           | 0           | \$0         |   |   |
| 286 | 3.4.B.D Summary of Additional Right of Way                               | 0     | 0        | 0         | 0          | 0    | 0        | 0          | 1        | 0           | 1           | \$41        |   |   |
| 287 | 3.4.B.E Detailed ROW Plan Sheets   | 0     | 0        | 0         | 0          | 0    | 0        | 0          | 1        | 0           | 1           | \$41        |   |   |
| 288 | 3.4.B.F Special Plats  | 0     | 0        | 0         | 0          | 0    | 0        | 0          | 0        | 0           | 0           | \$0         |   |   |
| 289 | 3.4.B.G Legal Descriptions and Closure Calculations                      | 0     | 0        | 0         | 0          | 0    | 0        | 4          | 0        | 0           | 4           | \$240       |   |   |
| 290 | 3.4.B.H Right-of-Way Acquisition Estimate                                | 0     | 0        | 0         | 0          | 0    | 0        | 0          | 0        | 0           | 0           | \$0         |   |   |
| 291 | 3.4.B.I Field Review   | 0     | 0        | 0         | 0          | 0    | 0        | 0          | 0        | 0           | 0           | \$0         |   |   |
| 292 |  |       |          |           |            |      |          |            |          |             |             |             |   |   |
| 293 | 3.4.C Compliance Right of Way Plans                                      | 0     | 0        | 0         | 0          | 0    | 0        | 0          | 0        | 0           | 0           | \$0         |   |   |
| 294 |  |       |          |           |            |      |          |            |          |             |             |             |   |   |
| 295 | 3.4.D Final Right of Way Plans   |       |          |           |            |      |          |            |          |             |             |             |   |   |
| 296 | 3.4.D.A Final Right of Way Plans   | 0     | 0        | 0         | 0          | 0    | 0        | 0          | 0        | 0           | 0           | \$0         |   |   |
| 297 | 3.4.D.B Field Review & Verify Property Owners                            | 0     | 0        | 0         | 0          | 0    | 0        | 0          | 0        | 0           | 0           | \$0         |   |   |
| 298 | 3.4.D.C Record Centerline Plat and all appropriate documents             | 0     | 0        | 0         | 0          | 0    | 0        | 0          | 0        | 0           | 0           | \$0         |   |   |
| 299 |  |       |          |           |            |      |          |            |          |             |             |             |   |   |
| 300 | Subtotal 3.4 Right of Way Plans  | 0     | 0        | 0         | 0          | 0    | 0        | 4          | 2        | 0           | 6           | \$322       |   |   |
| 301 |  |       |          |           |            |      |          |            |          |             |             |             |   |   |
| 302 | Task 3.5 Prepare Environmental Document                                  |       |          |           |            |      |          |            |          |             |             |             |   |   |
| 303 | 3.5.A Prepare Environmental Document                                     | 0     | 0        | 0         | 0          | 0    | 0        | 0          | 0        | 0           | 0           | \$0         |   |   |
| 304 |  |       |          |           |            |      |          |            |          |             |             |             |   |   |
| 305 | Subtotal 3.5 Prepare Environmental Document                              | 0     | 0        | 0         | 0          | 0    | 0        | 0          | 0        | 0           | 0           | \$0         |   |   |
| 306 |  |       |          |           |            |      |          |            |          |             |             |             |   |   |
| 307 | Task 3.6 Environmental Commitments and Plan Notes                        |       |          |           |            |      |          |            |          |             |             |             |   |   |
| 308 | 3.6.A Environmental Commitment Plan Notes                                | 0     | 0        | 0         | 0          | 0    | 0        | 0          | 0        | 0           | 0           | \$0         |   |   |
| 309 |  |       |          |           |            |      |          |            |          |             |             |             |   |   |
| 310 | Subtotal 3.6 Environmental Commitments and Plan Notes                    | 0     | 0        | 0         | 0          | 0    | 0        | 0          | 0        | 0           | 0           | \$0         |   |   |
| 311 |  |       |          |           |            |      |          |            |          |             |             |             |   |   |
| 312 | Task 3.7 Prepare Cost Estimates and Revise Milestones                    |       |          |           |            |      |          |            |          |             |             |             |   |   |
| 313 | 3.7.A Roadway/Interchange Costs  | 0     | 0        | 0         | 0          | 0    | 0        | 0          | 0        | 0           | 0           | \$0         |   |   |
| 314 | 3.7.B Structure Costs  | 0     | 0        | 0         | 0          | 0    | 0        | 0          | 0        | 0           | 0           | \$0         |   |   |
| 315 | 3.7.C Utility Costs  | 0     | 0        | 0         | 0          | 0    | 0        | 0          | 0        | 0           | 0           | \$0         |   |   |
| 316 |  |       |          |           |            |      |          |            |          |             |             |             |   |   |
| 317 | Subtotal 3.7 Prepare Cost Estimates and Revise Milestones                | 0     | 0        | 0         | 0          | 0    | 0        | 0          | 0        | 0           | 0           | \$0         |   |   |
| 318 |  |       |          |           |            |      |          |            |          |             |             |             |   |   |
| 319 | Task 3.8 Project Management for Environmental Engineering Phase          |       |          |           |            |      |          |            |          |             |             |             |   |   |
| 320 | 3.8.A Meetings   | 0     | 0        | 0         | 0          | 0    | 0        | 0          | 0        | 0           | 0           | \$0         |   |   |
| 321 | 3.8.B General Oversight  | 0     | 0        | 0         | 0          | 0    | 0        | 0          | 0        | 0           | 0           | \$0         |   |   |
| 322 | 3.8.C Project Set Up   | 0     | 0        | 0         | 0          | 0    | 0        | 0          | 0        | 0           | 0           | \$0         |   |   |
| 323 | 3.8.D Non Routine (Soft) Items   | 0     | 0        | 0         | 0          | 0    | 0        | 0          | 0        | 0           | 0           | \$0         |   |   |
| 324 |  |       |          |           |            |      |          |            |          |             |             |             |   |   |
| 325 | Subtotal 3.8 Project Management for EE Phase                             | 0     | 0        | 0         | 0          | 0    | 0        | 0          | 0        | 0           | 0           | \$0         |   |   |
| 326 |  |       |          |           |            |      |          |            |          |             |             |             |   |   |
| 327 | Task 3.9 Limited Review  |       |          |           |            |      |          |            |          |             |             |             |   |   |
| 328 | 3.9.A QA/QC for Limited Review   | 0     | 0        | 0         | 0          | 0    | 0        | 0          | 0        | 0           | 0           | \$0         |   |   |
| 329 |  |       |          |           |            |      |          |            |          |             |             |             |   |   |
| 330 | Subtotal 3.9 Limited Review  | 0     | 0        | 0         | 0          | 0    | 0        | 0          | 0        | 0           | 0           | \$0         |   |   |
| 331 |  |       |          |           |            |      |          |            |          |             |             |             |   |   |
| 332 | SUBTOTAL Phase 3   | 0     | 0        | 0         | 0          | 0    | 0        | 4          | 2        | 0           | 6           | \$322       |   |   |
| 333 |  |       |          |           |            |      |          |            |          |             |             |             |   |   |
| 334 | Phase 4 - Final Engineering and R/W Phase                                |       |          |           |            |      |          |            |          |             |             |             |   |   |
| 335 |  |       |          |           |            |      |          |            |          |             |             |             |   |   |
| 336 | Task 4.1 Right of Way Acquisition  |       |          |           |            |      |          |            |          |             |             |             |   |   |
| 337 | 4.1.A Right of Way Acquisition   | 0     | 0        | 0         | 0          | 0    | 0        | 0          | 0        | 0           | 0           | \$0         |   |   |
| 338 |  |       |          |           |            |      |          |            |          |             |             |             |   |   |
| 339 | Subtotal 4.1 Stage 3 Right of Way Acquisition                            | 0     | 0        | 0         | 0          | 0    | 0        | 0          | 0        | 0           | 0           | \$0         |   |   |
| 340 |  |       |          |           |            |      |          |            |          |             |             |             |   |   |
| 341 | Task 4.2 Stage 3 Detailed Design Plans                                   |       |          |           |            |      |          |            |          |             |             |             |   |   |
| 342 | 4.2.A Quakes and Notes   |       |          |           |            |      |          |            |          |             |             |             |   |   |
| 343 | 4.2.A.A Pavement Subsummary  | 0     | 0        | 0         | 0          | 0    | 0        | 0          | 0        | 0           | 0           | \$0         |   |   |
| 344 | 4.2.A.B Drainage Subsummary  | 0     | 0        | 0         | 0          | 0    | 0        | 0          | 0        | 0           | 0           | \$0         |   |   |
| 345 | 4.2.A.C Roadway Subsummary   | 0     | 0        | 0         | 0          | 0    | 0        | 0          | 0        | 0           | 0           | \$0         |   |   |
| 346 | 4.2.A.D Earthwork and Seeding Subsummary                                 | 0     | 0        | 0         | 0          | 0    | 0        | 0          | 0        | 0           | 0           | \$0         |   |   |
| 347 | 4.2.A.E General Summary Sheet  | 0     | 0        | 0         | 0          | 0    | 0        | 0          | 0        | 0           | 0           | \$0         |   |   |
| 348 | 4.2.A.F General Notes  | 0     | 0        | 0         | 0          | 0    | 0        | 0          | 0        | 0           | 0           | \$0         |   |   |
| 349 | 4.2.A.G Driveway Subsummary or Driveway Details (if incl. on same sheet) | 0     | 0        | 0         | 0          | 0    | 0        | 0          | 0        | 0           | 0           | \$0         |   |   |
| 350 |  |       |          |           |            |      |          |            |          |             |             |             |   |   |
| 351 | 4.2.B Drainage   |       |          |           |            |      |          |            |          |             |             |             |   |   |
| 352 | 4.2.B.A Storm Sewer Profiles   | 0     | 0        | 0         | 0          | 0    | 0        | 0          | 0        | 0           | 0           | \$0         |   |   |
| 353 | 4.2.B.B Culvert Detail Sheet incl. headwall and wingwall details         | 0     | 0        | 0         | 0          | 0    | 0        | 0          | 0        | 0           | 0           | \$0         |   |   |
| 354 | 4.2.B.C Channel Relocation Details                                       | 0     | 0        | 0         | 0          | 0    | 0        | 0          | 0        | 0           | 0           | \$0         |   |   |
| 355 | 4.2.B.D Underdrain details   | 0     | 0        | 0         | 0          | 0    | 0        | 0          | 0        | 0           | 0           | \$0         |   |   |
| 356 | 4.2.B.E BMP Details  | 0     | 0        | 0         | 0          | 0    | 0        | 0          | 0        | 0           | 0           | \$0         |   |   |
| 357 |  |       |          |           |            |      |          |            |          |             |             |             |   |   |
| 358 | 4.2.C Traffic Control Plans  |       |          |           |            |      |          |            |          |             |             |             |   |   |
| 359 | 4.2.C.A Signing and Pavement Marking Plans                               | 0     | 0        | 0         | 0          | 0    | 0        | 0          | 0        | 0           | 0           | \$0         |   |   |
| 360 |  |       |          |           |            |      |          |            |          |             |             |             |   |   |
| 361 | 4.2.D Miscellaneous  |       |          |           |            |      |          |            |          |             |             |             |   |   |
| 362 | 4.2.D.A Prepare FAA Form 7460-1 for Airway/Highway Clearance             | 0     | 0        | 0         | 0          | 0    | 0        | 0          | 0        | 0           | 0           | \$0         |   |   |
| 363 | 4.2.D.B Project Site Plan  | 0     | 0        | 0         | 0          | 0    | 0        | 0          | 0        | 0           | 0           | \$0         |   |   |
| 364 | 4.2.D.C Title Sheet  | 0     | 0        | 0         | 0          | 0    | 0        | 0          | 0        | 0           | 0           | \$0         |   |   |
| 365 |  |       |          |           |            |      |          |            |          |             |             |             |   |   |
| 366 | 4.2.E Maintenance of Traffic   |       |          |           |            |      |          |            |          |             |             |             |   |   |
| 367 | 4.2.E.A MOT Plan Sheets  | 0     | 0        | 0         | 0          | 0    | 0        | 0          | 0        | 0           | 0           | \$0         |   |   |
| 368 |  |       |          |           |            |      |          |            |          |             |             |             |   |   |
| 369 | Subtotal 4.2 Stage 3 Detailed Design Plans                               | 0     | 0        | 0         | 0          | 0    | 0        | 0          | 0        | 0           | 0           | \$0         |   |   |
| 370 |  |       |          |           |            |      |          |            |          |             |             |             |   |   |
| 371 | Task 4.3 Prepare Cost Estimates and Revise Milestones                    |       |          |           |            |      |          |            |          |             |             |             |   |   |
| 372 | 4.3.A Roadway/Interchange Costs  | 0     | 0        | 0         | 0          | 0    | 0        | 0          | 0        | 0           | 0           | \$0         |   |   |
| 373 | 4.3.B Right of Way Costs   | 0     | 0        | 0         | 0          | 0    | 0        | 0          | 0        | 0           | 0           | \$0         |   |   |
| 374 | 4.3.C Structure Costs  | 0     | 0        | 0         | 0          | 0    | 0        | 0          | 0        | 0           | 0           | \$0         |   |   |
| 375 | 4.3.D Utility Costs  | 0     | 0        | 0         | 0          | 0    | 0        | 0          | 0        | 0           | 0           | \$0         |   |   |
| 376 |  |       |          |           |            |      |          |            |          |             |             |             |   |   |
| 377 | Subtotal 4.3 Prepare Cost Estimates and Revise Milestones                | 0     | 0        | 0         | 0          | 0    | 0        | 0          | 0        | 0           | 0           | \$0         |   |   |
| 378 |  |       |          |           |            |      |          |            |          |             |             |             |   |   |
| 379 | Task 4.4 Final Plan Package  |       |          |           |            |      |          |            |          |             |             |             |   |   |
| 380 | 4.4.A Submission of Final Tracings and Documentation                     | 0     | 0        | 0         | 0          | 0    | 0        | 0          | 0        | 0           | 0           | \$0         |   |   |
| 381 |  |       |          |           |            |      |          |            |          |             |             |             |   |   |
| 382 | Subtotal 4.4 Final Plan Package  | 0     | 0        | 0         | 0          | 0    | 0        | 0          | 0        | 0           | 0           | \$0         |   |   |
| 383 |  |       |          |           |            |      |          |            |          |             |             |             |   |   |
| 384 | Task 4.5 Project Management for Final Engineering and R/W Phase          |       |          |           |            |      |          |            |          |             |             |             |   |   |
| 385 | 4.5.A Meetings   | 0     | 0        | 0         | 0          | 0    | 0        | 0          | 0        | 0           | 0           | \$0         |   |   |
| 386 | 4.5.B General Oversight  | 0     | 0        | 0         | 0          | 0    | 0        | 0          | 0        | 0           | 0           | \$0         |   |   |
| 387 | 4.5.C Project Set Up   | 0     | 0        | 0         | 0          | 0    | 0        | 0          | 0        | 0           | 0           | \$0         |   |   |
| 388 | 4.5.D Non Routine (Soft) Items   | 0     | 0        | 0         | 0          | 0    | 0        | 0          | 0        | 0           | 0           | \$0         |   |   |
| 389 |  |       |          |           |            |      |          |            |          |             |             |             |   |   |
| 390 | Subtotal 4.5 Project Management for FE and R/W Phase                     | 0     | 0        | 0         | 0          | 0    | 0        | 0          | 0        | 0           | 0           | \$0         |   |   |
| 391 |  |       |          |           |            |      |          |            |          |             |             |             |   |   |

|     | A  | B | H     | I           | J            | K              | L    | M        | N             | O           | P              | Q              | R              | S |
|-----|--|---|-------|-------------|--------------|----------------|------|----------|---------------|-------------|----------------|----------------|----------------|---|
| 19  | Task Description   |   | Prin. | Proj<br>Mgr | Sr.<br>Engr. | Proj.<br>Engr. | Tech | Clerical | Survey<br>Mgr | R/W<br>Tech | Survey<br>Crew | Total<br>Hours | Labor<br>Costs |   |
| 392 |  |   |       |             |              |                |      |          |               |             |                |                |                |   |
| 393 |  |   |       |             |              |                |      |          |               |             |                |                |                |   |
| 394 |  |   |       |             |              |                |      |          |               |             |                |                |                |   |
| 395 | <b>SUBTOTAL Phase 4</b>  |   | 0     | 0           | 0            | 0              | 0    | 0        | 0             | 0           | 0              | 0              | \$0            |   |
| 396 |  |   |       |             |              |                |      |          |               |             |                |                |                |   |
| 397 |  |   |       |             |              |                |      |          |               |             |                |                |                |   |
| 398 | <b>SUBTOTAL Phases 1-4</b>   |   | 0     | 0           | 0            | 0              | 0    | 0        | 5             | 8           | 8              | 21             | \$1,156        |   |
| 399 |  |   |       |             |              |                |      |          |               |             |                |                |                |   |
| 400 |  |   |       |             |              |                |      |          |               |             |                |                |                |   |
| 401 |  |   |       |             |              |                |      |          |               |             |                |                |                |   |
| 402 | <b>If Authorized Items</b>   |   |       |             |              |                |      |          |               |             |                |                |                |   |
| 403 |  |   |       |             |              |                |      |          |               |             |                |                |                |   |
| 404 |  |   |       |             |              |                |      |          |               |             |                |                |                |   |
| 405 | <b>Task 4.6 Pre-Bid Activities</b>                                 |   |       |             |              |                |      |          |               |             |                |                |                |   |
| 406 | 4.6.A Pre-Bid Questions  |   | 0     | 0           | 0            | 0              | 0    | 0        | 0             | 0           | 0              | 0              | \$0            |   |
| 407 |  |   |       |             |              |                |      |          |               |             |                |                |                |   |
| 408 | <b>Subtotal 4.6 Pre-Bid Activities</b>                             |   | 0     | 0           | 0            | 0              | 0    | 0        | 0             | 0           | 0              | 0              | \$0            |   |
| 409 |  |   |       |             |              |                |      |          |               |             |                |                |                |   |
| 410 | <b>Task 4.7 Plan Revisions due to R/W Negotiations</b>             |   |       |             |              |                |      |          |               |             |                |                |                |   |
| 411 | 4.7.A Plan Revisions due to R/W Negotiations                       |   | 0     | 0           | 0            | 0              | 0    | 0        | 0             | 0           | 0              | 0              | \$0            |   |
| 412 |  |   |       |             |              |                |      |          |               |             |                |                |                |   |
| 413 | <b>Subtotal 4.7 Plan Revisions due to R/W Negotiations</b>         |   | 0     | 0           | 0            | 0              | 0    | 0        | 0             | 0           | 0              | 0              | \$0            |   |
| 414 |  |   |       |             |              |                |      |          |               |             |                |                |                |   |
| 415 | <b>Task 4.8 Temporary Staking for Utilities and Appraisals</b>     |   |       |             |              |                |      |          |               |             |                |                |                |   |
| 416 | 4.8.A Temporary Staking for Utilities and Appraisals               |   | 0     | 0           | 0            | 0              | 0    | 0        | 0             | 0           | 0              | 0              | \$0            |   |
| 417 |  |   |       |             |              |                |      |          |               |             |                |                |                |   |
| 418 | <b>Subtotal 4.8 Temporary Staking for Utilities and Appraisals</b> |   | 0     | 0           | 0            | 0              | 0    | 0        | 0             | 0           | 0              | 0              | \$0            |   |
| 419 |  |   |       |             |              |                |      |          |               |             |                |                |                |   |
| 420 | <b>Task 4.9 Setting R/W Pins after Acquisition</b>                 |   |       |             |              |                |      |          |               |             |                |                |                |   |
| 421 | 4.9.A Setting R/W Pins after Acquisition                           |   | 0     | 0           | 0            | 0              | 0    | 0        | 0             | 0           | 0              | 0              | \$0            |   |
| 422 |  |   |       |             |              |                |      |          |               |             |                |                |                |   |
| 423 | <b>Subtotal 4.9 Setting R/W Pins after Acquisition</b>             |   | 0     | 0           | 0            | 0              | 0    | 0        | 0             | 0           | 0              | 0              | \$0            |   |
| 424 |  |   |       |             |              |                |      |          |               |             |                |                |                |   |
| 425 |  |   |       |             |              |                |      |          |               |             |                |                |                |   |
| 426 | <b>Phase 5 - Construction Phase</b>                                |   |       |             |              |                |      |          |               |             |                |                |                |   |
| 427 |  |   |       |             |              |                |      |          |               |             |                |                |                |   |
| 428 | <b>Task 5.1 On-Going Services During Construction</b>              |   |       |             |              |                |      |          |               |             |                |                |                |   |
| 429 | 5.1.A On-Going Services During Construction                        |   | 0     | 0           | 0            | 0              | 0    | 0        | 0             | 0           | 0              | 0              | \$0            |   |
| 430 |  |   |       |             |              |                |      |          |               |             |                |                |                |   |
| 431 | <b>Subtotal 5.1 On-Going Services During Construction</b>          |   | 0     | 0           | 0            | 0              | 0    | 0        | 0             | 0           | 0              | 0              | \$0            |   |
| 432 |  |   |       |             |              |                |      |          |               |             |                |                |                |   |
| 433 | <b>SUBTOTAL If Authorized Items</b>                                |   | 0     | 0           | 0            | 0              | 0    | 0        | 0             | 0           | 0              | 0              | \$0            |   |
| 434 |  |   |       |             |              |                |      |          |               |             |                |                |                |   |
| 435 |  |   |       |             |              |                |      |          |               |             |                |                |                |   |
| 436 | <b>SUBTOTAL Phases 1-4 and If Authorized Items</b>                 |   | 0     | 0           | 0            | 0              | 0    | 0        | 5             | 8           | 8              | 21             | \$1,156        |   |
| 437 |  |   |       |             |              |                |      |          |               |             |                |                |                |   |
| 438 |  |   |       |             |              |                |      |          |               |             |                |                |                |   |
| 439 |  |   |       |             |              |                |      |          |               |             |                |                |                |   |

# MODIFICATION #1 FEE PROPOSAL NARRATIVE

EXHIBIT "A"

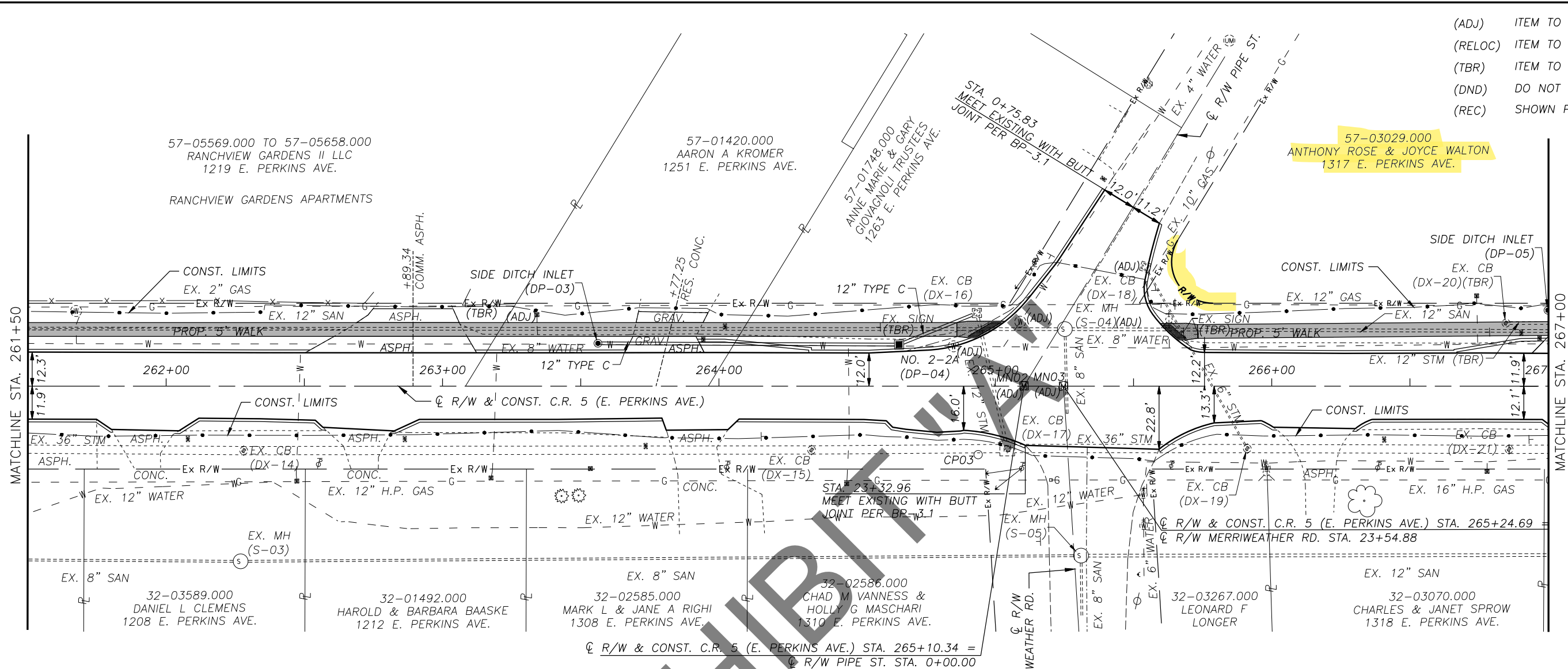
**ERI-CR 5-2.85 (Perkins Avenue) PID No. 113959 – Modification #1**  
**Summary of Additional/Revised Work**

The original fee proposal estimated 4 parcels for R/W acquisition, while based on the Stage 1 design 5 parcels will require R/W. In addition, the original proposal assumed the locations of the parcels as one west of Pipe Creek, two corners at Pipe Street, and one at Remington Avenue. The locations of the 5 parcels based on Stage 1 design are the NE corner of Pipe Street, 3 parcels on the north side between Pipe Street and Remington Avenue, and the NE corner of Remington Avenue (see attached Exhibit).

This modification covers the additional field and plan work required due to the increase in parcel count, as well as the additional services for O.R. Colan Associates for the additional parcel. O.R. Colan's original fee proposal was \$23,650.00 and the revised fee proposal (attached) is \$28,625.00. The fee proposal spreadsheet includes the \$4,975.00 in additional costs for O.R. Colan.

EXHIBIT "A"

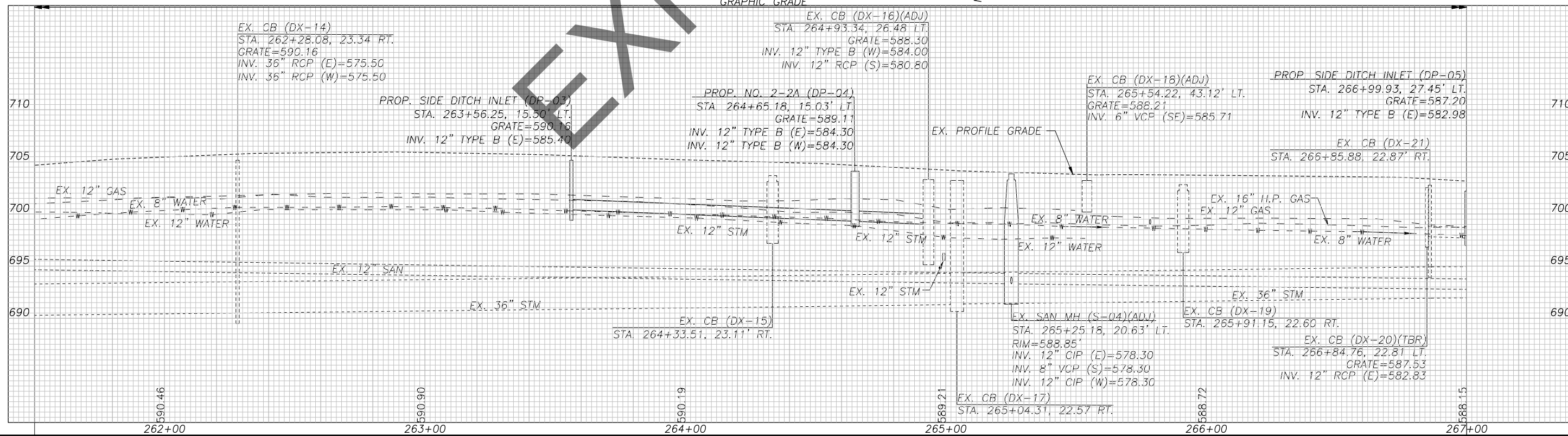
J:\225775 ERI-CR 5-2.85 PID No. 113959 Drawings\Sheets\12 PLAN AND PROFILE.dwg, Plotted: May 15, 2023 - 12:41pm



- (ADJ) ITEM TO BE ADJUSTED
- (RELOC) ITEM TO BE RELOCATED
- (TBR) ITEM TO BE REMOVED
- (DND) DO NOT DISTURB
- (REC) SHOWN PER RECORD

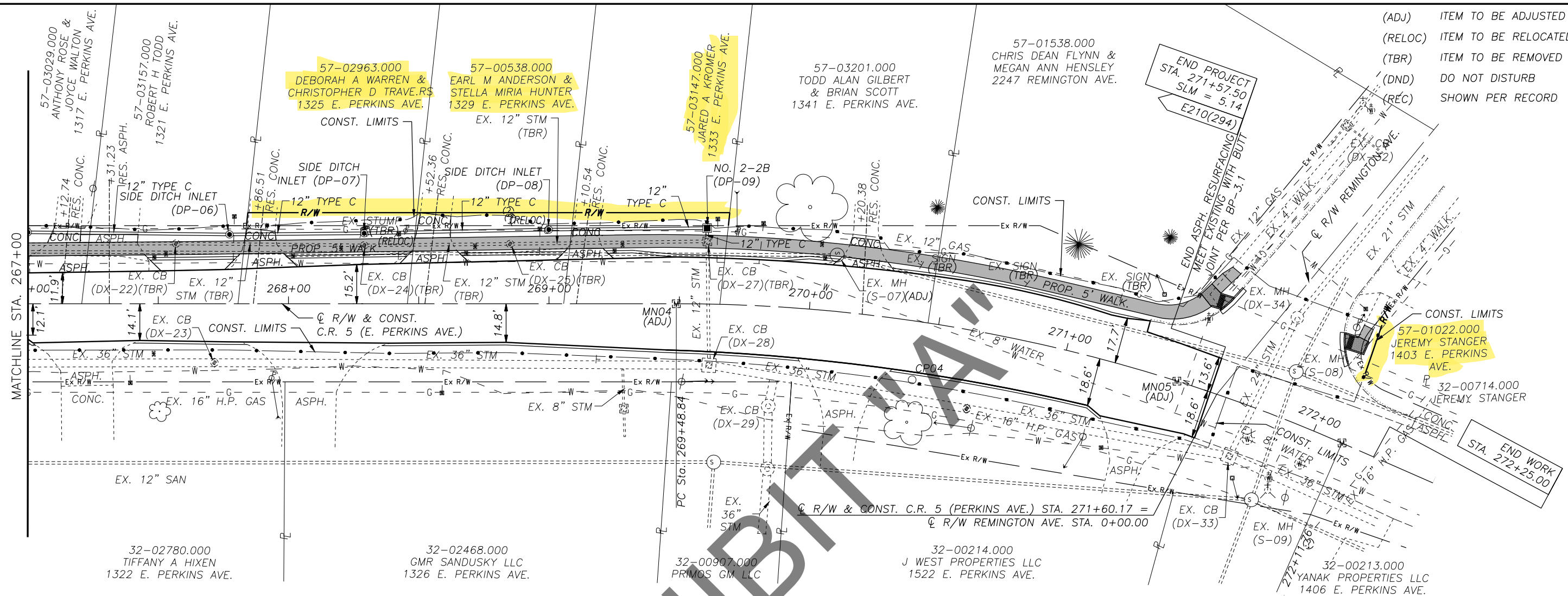


PLAN AND PROFILE  
STA. 261+50 TO STA. 267+00

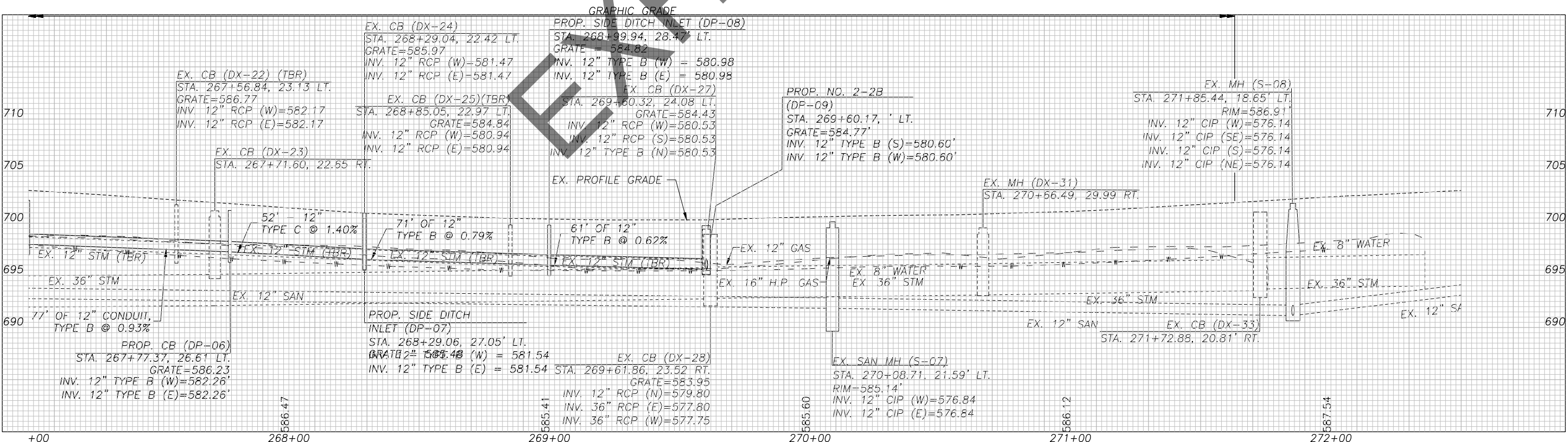


ERI-CR 5-2.85  
E. PERKINS AVE.

J:\225775 ERI-CR 5-2.85 PID No. 113959 Drawings\Sheets\12 PLAN AND PROFILE.dwg, Plotted: May 15, 2023 - 12:41pm



- (ADJ) ITEM TO BE ADJUSTED
- (RELOC) ITEM TO BE RELOCATED
- (TBR) ITEM TO BE REMOVED
- (DND) DO NOT DISTURB
- (REC) SHOWN PER RECORD



PLAN AND PROFILE  
STA. 267+00 TO STA. 272+50

ERI-CR 5-2.85  
E. PERKINS AVE.

**MODIFICATION #1**  
**SUBCONSULTANT FEE PROPOSAL -**  
**O.R. COLAN ASSOCIATES**

EXHIBIT "A"

July 7, 2023

Val Kilmer  
Bramhall Engineering and Surveying Company  
801 Moore Road  
Avon, Ohio 44011  
[vkilmer@bramhall-engineering.com](mailto:vkilmer@bramhall-engineering.com)

**Re: ERI CR 5 2.85 PID 113959  
R/W Acquisition Services**

Dear Ms. Kilmer:

O.R. Colan Associates (ORC) is pleased to submit a cost proposal for R/W Acquisition services for the above noted roadway project. ORC will provide all services in accordance with the Ohio Department of Transportation's Real Estate Policy and Procedures Manual and the Federal Uniform Relocation Assistance Act. The scope of services will follow The Office of Real Estate's Scope Definitions for Right of Way Services, revised 8/29/14, and ORC's fees are in accordance with ODOT's Fee Guidance from July - 2022.

ORC's proposal services include Project Management, Title Research, Title Updates, Appraisal, Negotiation, Closings and Recordings. ORC has provided a parcel-by-parcel breakdown of fees in the attachment to show unit fees by parcel. We have noted that three of the WD takings will change to easements reducing the impacts to 1325, 1329 & 1333 E. Perkins Avenue. ORC has also proposed title updates based on the assumption that title reports will be completed during design and updates will be completed when ORC is authorized after final R/W plans have been approved. If this does not happen, ORC would only charge for the title reports (no title updates) as updates are traditionally included within the cost to complete the closings.

ORC is ready to begin upon notice to proceed. We appreciate the opportunity to work with the City of Sandusky and Bramhall on this project. If you require additional information or need clarification, feel free to call me at 440.827.6116, ext. 205.

Respectfully,



Benjamin Zera  
Project Manager

Cc: Project File

**Cost Proposal****ERI CR 5 2.85 PID 113959****O.R. Colan Associates****Date: 7-Jul-23**

| APN          | Take Type | Owner           | Address         | Appraisal Format | Appraisal Fee | PM Fee      | Title Report | Title Update | Negotiation  | Closing     | Recordings |
|--------------|-----------|-----------------|-----------------|------------------|---------------|-------------|--------------|--------------|--------------|-------------|------------|
| 57-03029.000 | WD        | Rose/Walton     | 1317 E. Perkins | Value Analysis   | \$ 850.00     | \$ 960.00   | \$ 840.00    | \$ 250.00    | \$ 2,300.00  | \$ 780.00   | \$ 75.00   |
| 57-02963.000 | Easement  | Warren/Travers  | 1325 E. Perkins | Value Analysis   | \$ 850.00     | \$ 960.00   | \$ 500.00    | \$ 250.00    | \$ 2,300.00  | \$ 570.00   | \$ 75.00   |
| 57-00538.000 | Easement  | Anderson/Hunter | 1329 E. Perkins | Value Analysis   | \$ 850.00     | \$ 960.00   | \$ 500.00    | \$ 250.00    | \$ 2,300.00  | \$ 570.00   | \$ 75.00   |
| 57-03147.000 | Easement  | Kromer          | 1333 E. Perkins | Value Analysis   | \$ 850.00     | \$ 960.00   | \$ 500.00    | \$ 250.00    | \$ 2,300.00  | \$ 570.00   | \$ 75.00   |
| 57-01022.000 | WD        | Stanger         | 1403 E. Perkins | Value Analysis   | \$ 850.00     | \$ 960.00   | \$ 840.00    | \$ 250.00    | \$ 2,300.00  | \$ 780.00   | \$ 75.00   |
|              |           |                 |                 |                  | \$ 4,250.00   | \$ 4,800.00 | \$ 3,180.00  | \$ 1,250.00  | \$ 11,500.00 | \$ 3,270.00 | \$ 375.00  |

Total \$ 28,625.00