

May 9, 2019

Paul Pickett, PE City Engineer City of Green 1755 Town Park Blvd Green, Ohio 44232

Re: The HUB – Phase 2, Massillon Rd & Corporate Woods Circle Roundabout PID No. 103172

en

Dear Mr. Pickett:

Enclosed is one copy of our fee proposal to provide engineering services to complete the remaining detailed design of the roundabout at the intersection of Massillon Road and Corporate Woods Circle. This is Phase 2 of The HUB project with the City of Green. We have reviewed all subconsultant proposals contained in this fee proposal for mathematical accuracy and adherence to the scope of services. We propose to perform this contract work based on a lump-sum fee.

If you have any questions or comments about the enclosed fee proposal, please contact me or Frank Aransky at (614) 901-2235. We look forward to working with you to complete this project.

٢

Very truly yours, American Structurepoint, Inc.

Walid E. Gemayel, PE Senior Vice President/

WEG:mek

Enclosures

Cost Packet

For Professional Engineering Services

The HUB – Phase 2 Massillon Rd/Corporate Woods Circle

City of Green 1755 Town Park Blvd, Green, OH 44232 May 9, 2019



2550 CORPORATE EXCHANGE DRIVE, SUITE 300 COLUMBUS, OHIO 43231 614.901.2235

www.structurepoint.com



TABLE OF CONTENTS

Contents

| Scope of Serv | ices | . 1 |
|---------------|--|-----|
| 1. | Project Management and Control | . 1 |
| 9. | Preliminary Right-of-Way Plans | . 2 |
| 10. | Stage 2 Plan Development | . 2 |
| 11. | Final Right-of-Way Exhibits and Descriptions | . 2 |
| 12. | Stage 3 Plan Development | . 3 |
| 13. | Final Tracings and Bid Documents | . 3 |
| 14. | Public Outreach and Public Involvement Plan | . 3 |
| 15. | If Authorized Items | . 4 |
| 16. | Services not included with this proposal | . 4 |

Appendix A – Proposal Cost Breakdown and Summary

Appendix B – Field Survey and Project Area Limits

Appendix C – Subconsultant Cost Breakdown, Summary, and Rate Schedule

Appendix D – Project Schedule



Scope of Services

The HUB – Phase 2 Roundabout project consists of replacing the existing signalized intersection at Massillon Road (SR 241) and Corporate Woods Circle/Thorn Drive with a modern roundabout. A traffic study, prepared by American Structurepoint, was completed based off of traffic data obtained from a previous traffic study and projected to the current and design year traffic. Based upon project coordination to date, new traffic data will be collected to verify existing counts and projection and to certify the traffic data. Our approach to delivering this project is based upon the following:

- Prepare construction plans and specifications for public bidding
- Develop a community outreach plan and material for the City of Green to present to the public
- Prepare NEPA documentation for approval of a CE document
- Perform SUE Level "A" (if authorized) to validate underground utility elevations in areas of potential conflict
- Prepare documents for right-of-way acquisition. Right-of-way acquisition is to be performed independent of this contract and under the direction of the City of Green.

American Structurepoint and our subconsultants propose to perform the following tasks to complete the plan preparation for the improvements of the HUB – Phase 2. The proposed tasks are based upon our assumptions to obtain environmental clearance from ODOT/FHWA, and City of Green/ODOT approval of design and construction plans.

The classification rates shown in Appendix A show our rates for 2017, along with escalators for the subsequent year for the anticipated duration of the project.

1. Project Management and Control

- 1.1 Prepare a detailed schedule and provide a monthly progress report, including services accomplished in the current month and anticipated services to be completed the following month
- 1.2 Prepare an index of plan sheets
- 1.3 Prepare a project contact list that includes all utility company names, addresses, and telephone numbers, as well as all contacts for the project
- 1.4 Monitor the status of the services to keep the project on schedule and within budget
- 1.5 Coordinate locations of existing utilities and relocation needs with the utility companies based upon the proposed work. Provide the City of Green with a copy of all correspondence.
- 1.6 Perform quality control checking of all submittals with an independent team led by the project manager
- 1.7 Conduct meetings with the City of Green, including review meetings, utility meetings, and design concurrence meetings requested by American Structurepoint to lock in influential elements to limit plan rework. American Structurepoint will attend quarterly ODOT meetings at the request of the City of Green.
- 1.8 Collect Level "B" subsurface utility engineering survey and prepare basemap.
- 1.9 Hold one meeting with utility companies to coordinate utility conflicts and relocations.



9. Preliminary Right-of-Way Plans

The following tasks will be performed to complete the Preliminary Right-of-Way Plans per the Ohio Department of Transportation Right-of-Way Plan Manual. Descriptions will be prepared to comply with the transfer and conveyance standards of Summit County and the City of Green.

- 9.1 Legend Sheet
- 9.2 Centerline Plat
- 9.3 Property Map
- 9.4 Summary of Additional Right-of-Way Sheets
- 9.5 Right-of-Way Topo Sheets and Boundary sheets
- 9.6 Prepare legal descriptions permanent and temporary R/W parcels and closures calculations
- 9.7 Right of way acquisition estimate
- 9.8 Field review preliminary right-of-way plans

10. Stage 2 Plan Development

American Structurepoint will perform the following tasks to complete the Stage 2 plans and deliverables.

- 10.1 Address Stage 1 comments and provide disposition
- 10.2 Prepare maintenance-of-traffic plans
- 10.3 Prepare maintenance-of-traffic notes
- 10.4 Prepare detour sheets
- 10.5 Calculate and detail temporary drainage needs during maintenance of traffic
- 10.6 Update drainage profiles, underdrain, BMP's
- 10.7 Prepare signing plans
- 10.8 Prepare interconnect and camera plans
- 10.9 Prepare temporary signal plans
- 10.10 Prepare temporary drive sheets during maintenance of traffic
- 10.11 Prepare landscaping plans
- 10.12 Update site/civil design due to R/W impacts
- 10.13 Prepare water line plan and profiles, mainline, and lowerings
- 10.14 Prepare sanitary sewer plans
- 10.15 Perform lighting photometrics and calculations
- 10.16 Update lighting plans
- 10.17 Add environmental commitments notes into general notes
- 10.18 Update and compute estimated quantities and prepare opinion of probable construction costs
- 10.19 Submit Stage 2 plans to the City of Green, ODOT, and utility companies
- 10.20 QA/QC will be performed throughout the Stage 2 plan development

11. Final Right-of-Way Exhibits and Descriptions

The following tasks will be performed to complete the Final Right-of-Way Plans

- 11.1 Address preliminary right-of-way plan comments and prepare final Right-of-Way plans
- 11.2 Perform a field review of the final right-of-way plans and perform ownership update for all properties adjacent to the project
- 11.3 Set pins on permanent right-of-way parcels one time after completion of acquisition



12. Stage 3 Plan Development

American Structurepoint will perform the following tasks to complete the Stage 3 plans and deliverables.

- 12.1 Address Stage 2 comments and provide disposition
- 12.2 Finalize general notes sheets
- 12.3 Update title sheet
- 12.4 Create general summary sheets
- 12.5 Create subsummary sheets
- 12.6 Prepare lighting plans and notes
- 12.7 Prepare overhead sign plans and elevation views
- 12.8 Prepare project site plan
- 12.9 Prepare FAA Form 7460-1 for Airway/Highway Clearance
- 12.10 Prepare opinion of probable construction cost
- 12.11 Submit Stage 3 plans to the City of Green, ODOT and utility companies
- 12.12 QA/QC will be performed throughout the Stage 3 plan development

13. Final Tracings and Bid Documents

American Structurepoint will address Stage 3 comments and provide a disposition. We will compile City and ODOT specifications, quantities, and construction plans and provide to the City of Green for public bidding. Contract language will be provided by the City of Green. The cost of this item does not include the cost of advertising, printing, addenda, bid review, and recommendations.

American Structurepoint will provide electronic files of the plan set in .pdf format, along with the general summary in .xls format to be utilized as part of the bidding process. All CAD files will be provided in MicroStation (.dgn) format.

American Structurepoint will provide assistance and answer pre-bid questions during the bid preparation process. We will also provide assistance during construction as an on-going service.

14. Public Outreach and Public Involvement Plan

American Structurepoint will coordinate and develop a community outreach and official public involvement plan with the City of Green staff and obtain buy-in from ODOT.

As part of our coordination, we will discuss the following:

- 14.1 Public Involvement
 - 14.1.1 Public Involvement Plan: American Structurepoint will prepare a public involvement plan to be approved by ODOT. Note that this document will need to be updated throughout the project development process.
 - 14.1.2 Contact Local Stakeholders: American Structurepoint will provide the City of Green with names and addresses for the local stakeholders, a letter, and associated materials (maps, etc.) informing them of the proposed project and requesting feedback. The City will print and mail the letters and materials on City letterhead.
 - 14.1.3 Public Involvement Meeting Invitations: American Structurepoint will provide the City of Green with names and addresses for the public meeting invitations. The City will print and mail the invitations on City letterhead.
 - 14.1.4 Prepare a press release for advertisement in at least one local newspaper (The Suburbanite, The Akron Beacon Journal, and/or The Repository), and on the City's



website. American Structurepoint will provide the City of Green with the press release. The City will coordinate the press release with the newspapers and make payment for the press release. Advertisement for the press release will occur on two occasions in the newspaper.

14.1.5 Attend one open house-style public meeting. The City of Green will arrange the public meeting at a site within the general project location area (church, school, or other public meeting place). We anticipate a morning and afternoon session for the public meeting.

14.2 VISSIM Modeling

1. Model Development

VISSIM models to create visual traffic simulations of each design scenario will be created based on the latest linework. Due to the precision required for 3D simulations, the VISSIM models developed for the traffic analysis require modifications to match the latest geometry created by the design team and graphics department. The Interim Year Configuration was not previously modeled for the traffic analysis study; therefore, a new model will be created to reflect this design (revised from the Design Year Configuration).

2. Simulation Window for Export to 3ds Max

A 2-minute simulation video will be captured within VISSIM for each design scenario. This requires the selection of an accurate depiction of projected traffic conditions. After selecting the recording window, the VISSIM file is exported to .fpz format which creates a database of vehicle coordinates in 0.10-second timestamps. The vehicle coordinate database requires post-processing to match the format compatible with 3ds Max.

3. 3ds Max

The formatted vehicle coordinates from VISSIM are imported to 3ds Max. Troubleshooting is required to ensure that all vehicles are "glued" to the surface within 3ds Max.

4. Rendering, Compositing, and Encoding

The simulation videos are rendered out to a high-quality output for presentation. The raw videos require post-processing to include titles, labeling, call-outs, transitions, and other after-effects.

15. If Authorized Items

- 15.1 Level "A" Subsurface Utility Engineering
- 15.2 Maintenance-of-traffic plan This fee will be needed if the project is to be combined with Phase 2 (Massillon Boettler) The MOT plan will need to be revised to incorporate detours, lane shifts, closures, and temporary pavement needs.

16. Services not included with this proposal

The following items are not included in this scope of services.

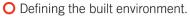
- 16.1 Channel relocation plans
- 16.2 Noise wall plans



- 16.3 Irrigation plans
- 16.4 Private utility relocation plans (gas, electric, phone, cable, etc.)
- 16.5 Appraisal review
- 16.6 Water quantity treatment for BMP design
- 16.7 Preparation of additional permit applications to the USACE, the OEPA, or other local, state, or federal agencies not mentioned above in this proposal
- 16.8 Additional environmental surveys including, but not limited to: Level 1 Ecological Survey; Phase II Environmental Site Assessment; Noise surveys; Air quality surveys; Underserved Populations Reports, including an Underserved Populations Impact Analysis Report (UPIAR); and a lower/higher level of categorical exclusion documentation preparation



Appendix A – Proposal Cost Breakdown, Summary, and Rate Schedule



Fee Proposal Phase 2 Massillon - Corporate Woods May 9, 2019

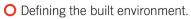
| | | Principal | Project Manager | Senior Engineer | Senior Env. Specialist | Project Engineer | Senior Technician | Staff Engineer / Technician | Env. Specialist | Total Hours | Subconsultant | Non-Labor Direct Costs | Total Cost |
|---------|--|-----------|--------------------|--------------------|---------------------------|---------------------|----------------------|-----------------------------------|--------------------|----------------|--------------------|---------------------------|------------|
| | | \$260.00 | \$208.00 | \$182.00 | \$166.50 | \$145.50 | \$140.50 | \$99.00 | \$99.00 | | | | |
| Task 9 | - Preliminary Right-of-Way Plan | | | | | | | | | | | | |
| 9.1 | Legend sheet | | | 1 | | | 1 | 1 | | 0 | \$1,144 | | \$1,144 |
| 9.2 | Centerline Survey Plat | | | | | | | | | 0 | \$1,144 | | \$1,144 |
| 9.3 | Property map | | | | | | | | | 0 | \$1,298 | | \$1,298 |
| 9.4 | Summary of Additional Right-of-Way | | | | | | | | | 0 | \$1,298 | | \$1,298 |
| 9.5 | Detailed Right-of-Way plans | | | | | | | | | 0 | \$3,492 | | \$3,492 |
| 9.6 | Legal Descriptions and Closure Calculations | | | | | | | | | 0 | \$1,720 | | \$1,720 |
| 9.7 | Right-of-Way Acquisition estimate | | | | | | | | | 0 | \$680 | | \$680 |
| 9.8 | Field Review | | | | | | | | | 0 | \$680 | | \$680 |
| | Subtotal Task 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | \$11,456 | | |
| Task 10 | - Stage 2 Construction Plans (Sheet Count) | | | | <u>.</u> | | | <u>.</u> | | | | · · · · · · | |
| 10.1 | Address Stage 1 comments | | 1 | 6 | | 8 | 12 | 12 | | 39 | 1 | | \$5,338 |
| 10.1 | Maintenance of Traffic Plans (12) | | 1 | 30 | | 120 | 72 | 72 | | 295 | | | \$40,372 |
| 10.2 | Maintenance of Traffic Notes (3) | | • | 00 | | 12 | 8 | 8 | | 28 | | | \$3,662 |
| 10.4 | Detour sheets (4) | | 1 | 4 | | 16 | 20 | 20 | | 61 | | | \$8,054 |
| 10.1 | Temporary Drainage Details (2) | | • | | | 2 | 20 | 8 | | 10 | \$1,988 | | \$3,071 |
| 10.6 | Drainage, underdrain, BMP's (6) | | | | | 2 | | 0 | | 0 | \$5.024 | | \$5,024 |
| 10.7 | Signing plan (5) | | 1 | 4 | | | 10 | 10 | | 25 | ψ0,024 | | \$3,331 |
| 10.7 | Interconnect/camera plan (2) | | | | | 4 | 8 | 8 | | 20 | | | \$2,498 |
| 10.9 | Temporary Signal plan (1) | | | 2 | | 6 | 6 | 6 | | 20 | | | \$2,674 |
| 10.10 | Temporary drive details (3) | | | 2 | | 4 | 2 | 2 | | 10 | | | \$1,425 |
| 10.10 | Prepare Landscaping Plans (2) | | | - | | | - | - | | 0 | \$12,846 | | \$12.846 |
| 10.12 | Site/Civil design due to R/W impacts | | | | | | | | | 0 | \$5,744 | | \$5,744 |
| 10.12 | Water Line Plan and Profiles (2) | | | | | | | | | 0 | \$5,484 | | \$5,484 |
| 10.13 | Sanitary Sewer plans (2) | | | | | | | | | 0 | \$4,360 | | \$4,360 |
| 10.14 | Lighting Photometrics and Calculations | | | | | | | | | 0 | \$3.922 | | \$3,922 |
| 10.16 | Update Lighting Plans (1) | | | | | | | | | 0 | \$7,660 | | \$7,660 |
| 10.10 | General notes with Environmental Commitments (1) | | | | | 2 | 2 | | | 4 | ψ1,000 | | \$572 |
| 10.17 | Compute quantitites and prepare cost estimate | | | 2 | | 4 | 4 | 4 | | 14 | \$1,766 | | \$3,670 |
| 10.10 | Submit Stage 2 plan sets and utility plan coordination | | | 2 | | 4 | 4 | 2 | | 12 | ψ1,700 | | \$1,706 |
| 10.10 | QA/QC | | 20 | 10 | | · T | | | | 30 | | | \$5,980 |
| 10.20 | Project Management | | 12 | 10 | | | | | | 12 | \$1,424 | | \$3,920 |
| 10.22 | General Oversight | | 40 | | | | | | | 40 | \$1,780 | | \$10,250 |
| 10.22 | Subtotal Task 10 | 0 | 76 | 62 | 0 | 182 | 148 | 152 | 0 | 620 | \$51.998 | | \$141.563 |
| Task 11 | - Final Right-of-Way Plan | | | | · · · | 102 | | 192 | | 020 | <i>\$</i> 01,000 | \$100 | ¢141,000 |
| 11.1 | Final Right-of-Way Plans | | | | | | | | | 0 | \$804 | | \$804 |
| 11.1 | Field Review and verify property owners | | | | | | | | | 0 | \$556 | | \$556 |
| 11.2 | Set Right-of-Way pins after acquisition | | | | | | | | | 0 | \$556 | | \$556 |
| 11.3 | Set Right-of-way pins after acquisition Subtotal Task 11 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | \$1,020 \$2,380 | | |

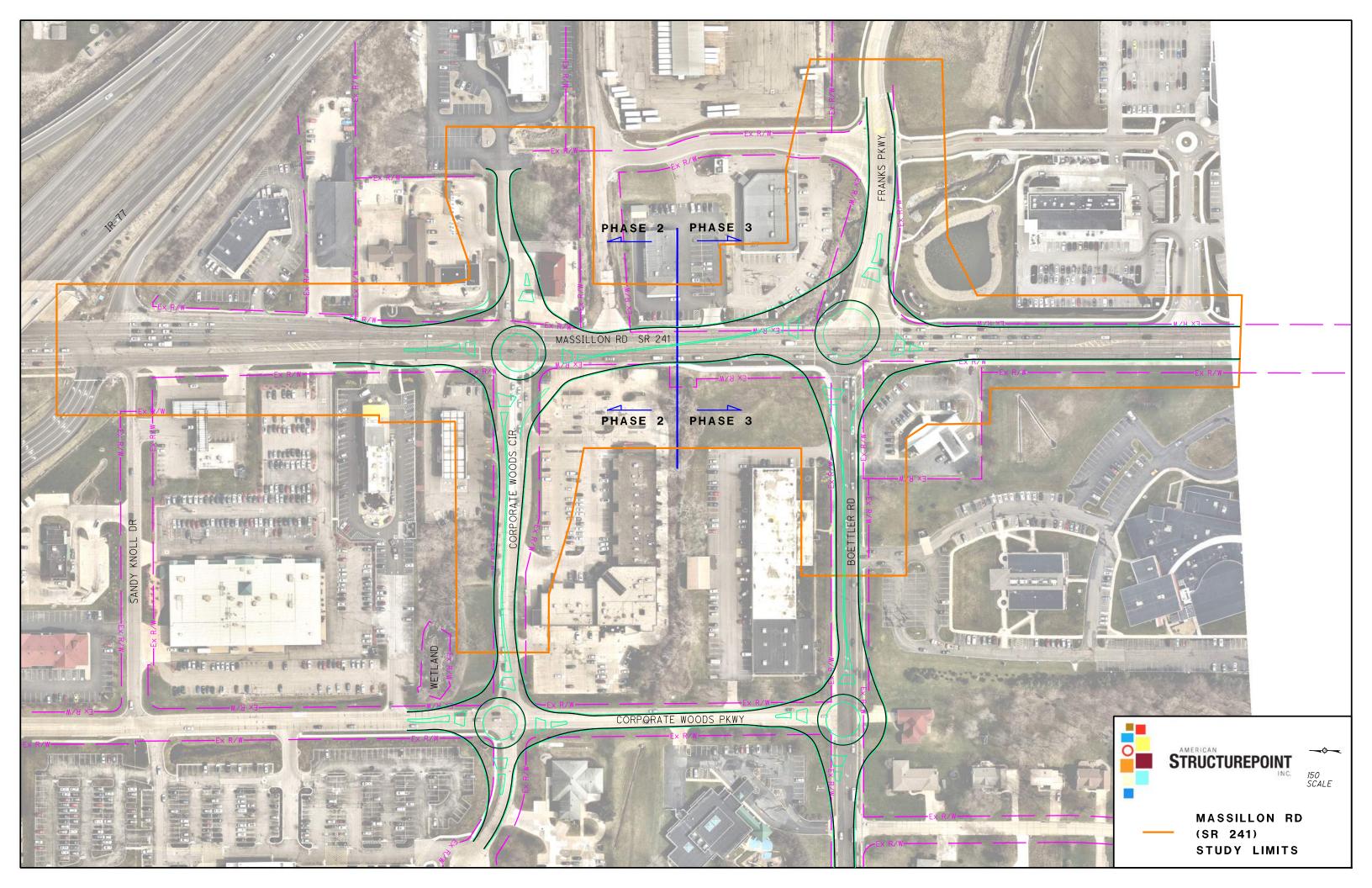
Fee Proposal Phase 2 Massillon - Corporate Woods May 9, 2019

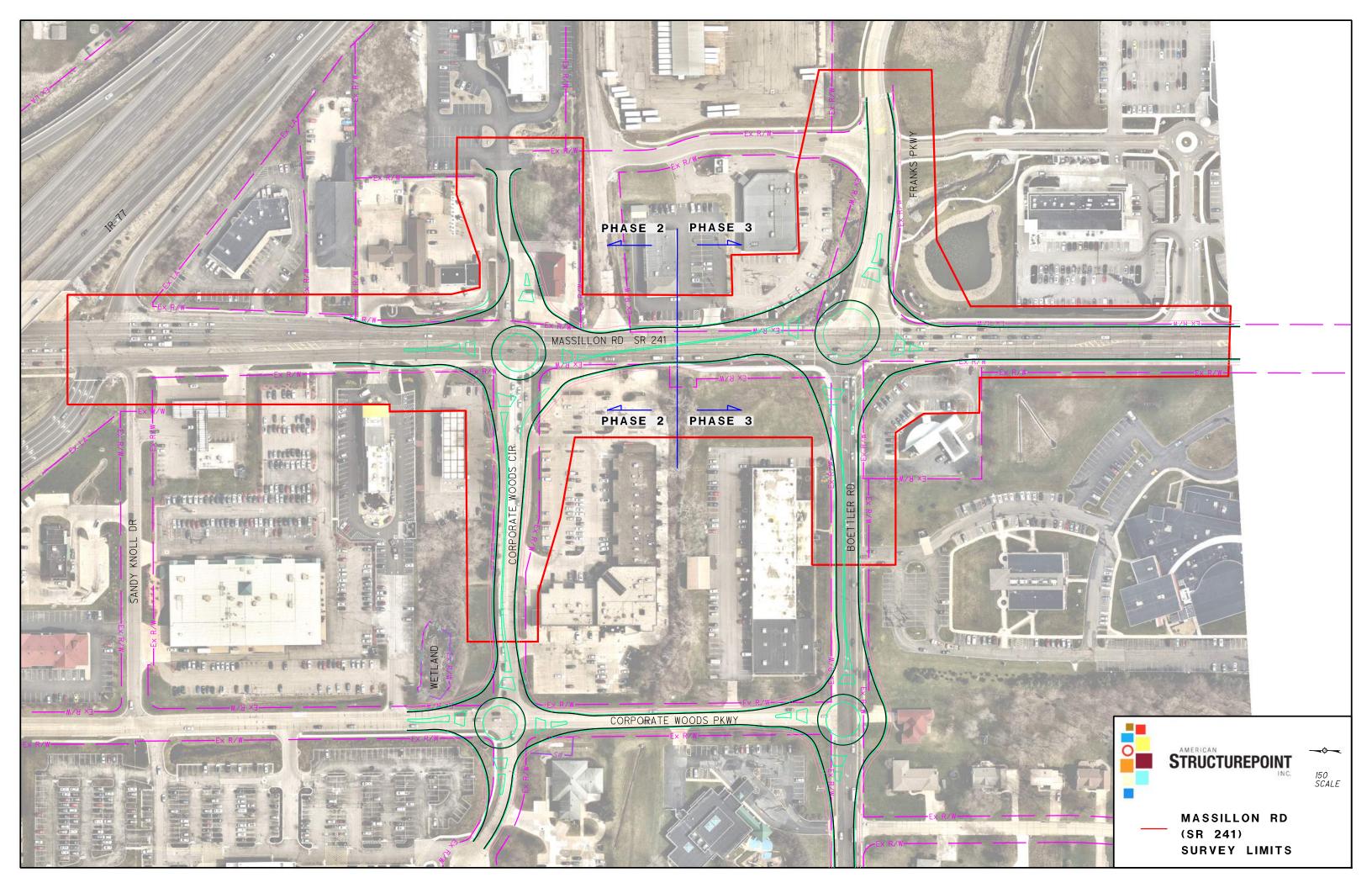
| | | Principal | Project Manager | Senior Engineer | Senior Env. Specialist | Project Engineer | Senior Technician | Staff Engineer / Technician | Env. Specialist | Total Hours | Subconsultant | Non-Labor Direct Costs | Total Cost |
|----------|---|-----------|--------------------|--------------------|---------------------------|---------------------|----------------------|-----------------------------------|--------------------|----------------|---------------|---------------------------|------------|
| | | \$260.00 | \$208.00 | \$182.00 | \$166.50 | \$145.50 | \$140.50 | \$99.00 | \$99.00 | | | | |
| Task 12 | - Stage 3 Construction Plans (Sheet Count) | | | | | | | | | | | | |
| 12.1 | Address Stage 2 comments | | 1 | 6 | | 8 | 12 | 12 | | 39 | | | \$5,338 |
| 12.2 | General Notes (3) | | 1 | 6 | | 12 | 8 | 8 | | 35 | | | \$4,962 |
| 12.3 | Update Title sheet (1) | | | 2 | | 6 | 2 | 2 | | 12 | | | \$1,716 |
| 12.4 | General Summary (3) | | 1 | 12 | | 12 | 15 | 15 | | 55 | | | \$7,731 |
| 12.5 | Calculate Quantities/Subsummaries (10) | | 1 | 12 | | 48 | 24 | 24 | | 109 | \$14,235 | | \$29,359 |
| 12.6 | Lighting Schematic, Plans, Notes, Details, Subsummary (8) | | | | | | | | | 0 | \$7,730 | | \$7,730 |
| 12.7 | Overhead sign plans and elevation view (2) | | | 2 | | 4 | 8 | 8 | | 22 | | | \$2,862 |
| 12.8 | Project Site Plan (1) and NOI Form | | 1 | 2 | | 6 | 2 | 2 | | 13 | | | \$1,924 |
| 12.9 | FAA Form 7460-1 for Airway/Highway clearance | | | 2 | | 4 | 2 | 2 | | 10 | | | \$1,425 |
| 12.10 | Cost Estimate | | 1 | 4 | | 12 | 8 | 8 | | 33 | | | \$4,598 |
| 12.11 | Submit Stage 3 plan sets and utility plan coordination | | | 2 | | 8 | 4 | 4 | | 18 | | | \$2,486 |
| 12.12 | QA/QC | | 20 | 10 | | | | | | 30 | | | \$5,980 |
| 12.13 | Project Management | | 12 | | | | | | | | \$1,424 | \$150 | \$4,070 |
| 12.14 | General Oversight | | 40 | | | | | | | | \$1,780 | | \$10,100 |
| | Subtotal Task 12 | 0 | 78 | 60 | 0 | 120 | 85 | 85 | 0 | 376 | \$25,169 | \$150 | \$90,281 |
| Task 13 | Final Tracings and Bid Documents | | | | | | | | | | | | |
| 13.1 | Address Stage 3 comments | | | 4 | | 12 | | 16 | | 32 | | | \$4,058 |
| 13.2 | Bid Documents | | 1 | 4 | | 16 | | | | 21 | | | \$3,264 |
| 13.3 | Prepare Tracings Package | | 1 | 12 | | 18 | | 12 | | 43 | \$1,834 | \$1,500 | \$9,533 |
| 13.4 | QA/QC | | 8 | | | | | | | 8 | | | \$1,664 |
| 13.5 | Cost estimate | | 1 | | | 3 | 2 | 2 | | 8 | \$883 | | \$2,007 |
| | Subtotal Task 13 | 0 | 11 | 20 | 0 | 49 | 2 | 30 | 0 | 112 | \$2,717 | \$1,500 | \$20,526 |
| Task 14 | - Public Outreach / Public Involvement Plan | | | | | | | | | | | | 1 |
| 14.1 | Public Meeting | 4 | 8 | 8 | 27 | 10 | 3 | 3 | 35 | 98 | \$1,614 | \$125 | \$16,033 |
| 14.2 | Video Graphic Modeling and Exhibits | | 4 | 6 | | 16 | 32 | | | 58 | | | \$8,748 |
| | Subtotal Task 14 | 4 | 8 | 8 | 27 | 10 | 3 | 3 | 35 | 98 | \$1,614 | \$125 | \$24,781 |
| TOTAL | BASE CONTRACT | 4 | 173 | 150 | 27 | 361 | 238 | 270 | 35 | 1206 | \$95,334 | \$1,925 | \$290,986 |
| "If Auth | orized" Services | | | | | | | | | | | | |
| 16.1 | Perform SUE Level A Field and Survey Work (20 Holes) | | | | | | | | | 0 | \$30,076 | | \$30,076 |
| | Maintenance of Traffic Plans (12) | | 1 | 12 | | 72 | 60 | 60 | | 205 | ,, | l l | \$27,238 |
| | Subtotal Task "If Authorized" | 0 | 1 | 12 | 0 | 72 | 60 | 60 | 0 | 205 | \$30,076 | \$0 | \$57,314 |
| TOTAL | BASE CONTRACT | 4 | 174 | 162 | 27 | 433 | 298 | 330 | 35 | 1411 | \$125,410 | \$1,925 | \$348,300 |



Appendix B – Field Survey and Project Area Limits

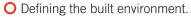








Appendix C – Subconsultant Cost Breakdown and Summary





SCOPE CLARIFICATIONS

Phase 2 – Massillon Road/Corporate Woods Circle/ Thorne Drive RAB American Structurepoint October 25, 2017 - Revised

Clarifications to our work tasks are as follows:

2.3.A – Field Survey

- Existing base map and base files will be utilized for the project. The files will be converted from AutoCAD to MicroStation. Base map will be provided in DGN format using ODOT level library and cells. The base map will include a surface (.tin). The survey limits from the original study apply to the final design. EDG will perform field survey for the areas that have changed since the original survey was completed. This includes the portion of Corporate Woods Circle where dual left turn lanes were added, the east roadway segment of the new RAB at the Corporate/Corporate intersection, and at the partial island removal on Massillon Road at the I-77 interchange. Other areas of survey will result in a contract modification.
- 2. Subsurface utility information will be provided to EDG as MicroStation files. EDG will incorporate SUE information into the base map.
- Two base map files will be provided to American Structurepoint; one for field survey and one for existing right-of-way lines, property owners, and property lines.

2.6.A – Public Involvement

1. Includes attendance at one public involvement meeting and addressing questions (comments regarding EDG's design elements).

2.7.A - Roadway

1. Site/civil design does not include retaining walls.

2.7.B – Drainage

1. Drainage design includes spread calculations and pipe sizing.

CORPORATE

450 Grant Street / Akron, OH 44311 P 330.375.1390 / F 330.375.1590 TF 800.835.1390

CLEVELAND OFFICE 2800 Euclid Ave, Suite 509 Cleveland, Ohio 44115

COLUMBUS OFFICE 580 N. Fourth Street, Suite 220 Columbus, Ohio 43215

envdesigngroup.com

The community impact people.

Phase 2 – Massillon Road/Corporate Woods Circle/ Franks Parkway RAB American Structurepoint October 25, 2017 – Revised Page 2

3.3.F - Lighting

1. Assumes LED ornamental lighting will be utilized. Match style utilized on section north of I-77.

3.3.J - Utilities

- 1. Includes coordination with Aqua Ohio Water and Summit County Department of Sanitary Sewer Services.
- 2. Other utility coordination is excluded.

3.4 - Right-of-Way Plans

- 1. Plans are based on 6 parcels impacted.
- 2. Appraisals, negotiations and recordings are excluded.

4.6 – Pre-Bid Activities

1. No bidding services are included.

5.1 – Construction Phase

1. No construction services are included.

IF AUTHORIZED – Phase 1 Archaeological Survey and Report

1. The fee only includes the level of effort for a Phase 1 Report. If OHPO requires a Level 2 or 3 investigation, this will be an additional service.

FEE PROPOSAL

| | | | | ГС | | UPU5A | | | | | | | |
|---|--|-----------|--------------|-------------|-----------|--------------|---------|---------|------------------------|-------------|----------|--------|----------------------|
| C-R-S Consultant: | Phase 2 - SR 241 (Massillon Rd.) a Environmental Design Group | and Cor | porate Wo | ods Circle | e/Thorn [| Drive RAB | | | | | | | Version: Feb 2017 |
| Agreement No. | | | | | | | | | | | | | |
| Modification No. PID No. | 103172 | | | | | | | | | | | | |
| Proposal Date | 10/23/2017 - Revised | | | | | | | | Survey Brei | | | | |
| | | Principal | Proj Manager | Sr Engineer | ENG/LA | Land Planner | CAD | Tech | Survey Proj Manager | Survey Crew | Clerical | т | otal |
| Task Descriptic | on | \$231.00 | \$178.00 | \$139.00 | \$108.00 | \$93.00 | \$86.50 | \$77.25 | \$170.00 | \$170.00 | \$67.00 | Hours | Cost |
| AUTHORIZED | TASKS: | | | | | | | | | | | | |
| 1 - Planning P | hase | | | | | | | | | | | | |
| 1.2 - Project Initiatio | | | | | | | | | | | | | () |
| | ly Area and Logical Termini eld Review (walk through) | | | | | | | | | | | 0 | \$0 \$0 |
| | TOTAL 1.2 - Project Initiation Package | 0 | 0 | 0 | 0 | | 0 | 0 | 0 | 0 | 0 | 0 | \$0.00 |
| 1.3 - Existing Data , 1.3.B - Crash Analy | Research and Analysis ysis | | | | | | | | | | | 0 | \$0 |
| 1.3.C - Traffic Cour 1.3.C.A - Turning | nts Movement Counts at Intersections - No Build | | | | | | | | | | | 0 | \$0 |
| 1.3.C.B - Machin | e Counts on Roadways and Ramps - No Build affic - No Build Condition | | | | | | | | | | | 0 | \$0 \$0 |
| | nalysis - No Build Condition | | | | | | | | | | | 0 | \$0 \$0 |
| | TOTAL 1.3 - Existing Data, Research and Analysis | 0 | 0 | 0 | 0 | | 0 | 0 | 0 | 0 | 0 | 0 | \$0.00 |
| 1.4 - Stakeholder In 1.4.A - Public Invol | volvement and Public Involvement Plan | | | | | | | | | | | 0 | |
| | TOTAL 1.4 - Stakeholder Involvement and Public Involvement Plan | 0 | 0 | 0 | 0 | | 0 | 0 | 0 | 0 | 0 | 0 | \$0.00 |
| 1.5 - Project Manag | ement for Planning Phase | | | | | | | | | | | | |
| 1.5.A - Meetings 1.5.B - General Ov | versight | | | | | | | | | | | 0 | \$0 \$0 |
| 1.5.C - Project Set 1.5.D - Non Routin | Up | | | | | | | | | | | 0 | \$0 \$0 |
| | TAL 1.5 - Project Management for Planning Phase | 0 | 0 | 0 | 0 | | 0 | 0 | 0 | 0 | 0 | 0 | \$0.00 |
| | TOTAL 1- Planning Phase | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | \$0.00 |
| 2 - Preliminary | y Engineering Phase | | | | | | | | | | | | |
| 2.1 - Develop Prelin | | | | | | | | | | | | | |
| 2.1.A -Prepare and | Complete Feasibility Study Report Traffic - Feasible (Build) Alternative(s) | | | | | | | | | | | 0 | \$0 |
| 2.1.A.C - Capacit | ty Analysis Feasible (Build) Alternative(s) older Public Involvement | | | | | | | | | | | 0 | \$0 \$0 \$0 |
| 2.1.A.9 - Otakene | TOTAL 2.1 - Develop Preliminary Alternatives | 0 | 0 | 0 | 0 | | 0 | 0 | 0 | 0 | 0 | 0 | \$0.00 |
| 2.2.A - Property Ov | onmental Field Studies | | | | | | | | | | | 0 | \$0 |
| 2.2.B – Cultural Re | esources Scoping Request From | | | | | | | | | | | 0 | \$0 |
| | ntal Site Assessment Screening | | | | | | | | | | | 0 | \$0 \$0 |
| 2.2.F - 4(f) determi | | | | | | | | | | | | 0 0 | \$0 \$0 |
| 2.2.G - Noise Anal 2.2.H - Noise Anal | ysis ysis - Public Involvement | | | | | | | | | | | 0 0 | \$0 \$0 |
| | | | | | | | | | | | | - | - |

C-R-S Phase 2 - SR 241 (Massillon Rd.) and Corporate Woods Circle/Thorn Drive RAB

| Consultant: | Environmental D |
|------------------|--------------------|
| Agreement No. | |
| Modification No. | |
| PID No. | 103172 |
| Proposal Date | 10/23/2017 - Povie |

Design Group

| | Principal | Proj Manager | Sr Engineer | ENG/LA | Land Planner | CAD | Tech | Survey Proj Manager | Survey Crew | Clerical | Tc | otal |
|---|-----------|--------------|-------------|----------|--------------|---------|---------|------------------------|-------------|----------|-------|-------------|
| ask Description 2.2.I – Phase I Cultural Resource History/Architecture Survey | \$231.00 | \$178.00 | \$139.00 | \$108.00 | \$93.00 | \$86.50 | \$77.25 | \$170.00 | \$170.00 | \$67.00 | Hours | Cost |
| TOTAL 2.2 - Perform Environmental Field Studies | 0 | 0 | 0 | 0 | | 0 | 0 | 0 | 0 | 0 | 0 | \$0.00 |
| 3 - AER Design | | | | | | | | | | | | |
| 2.3.A - Field Survey and Aerial Mapping | | | | | | | | | | | | |
| 2.3.A.A - Project Control, Benchmarks, and Reference Points | | | | | | | | 1 | 2 | | 3 | \$ |
| 2.3.A.B - Monumentation recovery | | | | | | | 20 | 1 | 2 | | 3 | \$ |
| 2.3.A.C - Base Mapping (incl. field verify.) | | | | | | | 32 | 8 | 24 | | 64 | \$7, |
| 2.3.A.F - Establish property lines, tax id, & ownerships on base map | | | | | | 2 | 4 | 8 | 8 | _ | 22 | \$3 |
| 2.3.A.G - Property Owner Notification | | | | | | | | 6 | | 2 | 8 | \$1, |
| 2.3.B - Roadway | | | | | | | | | | | | |
| 2.3.B.A - Design Criteria | | | | | | | | | | | 0 | |
| 2.3.B.C - Horizontal Alignment and Vertical Profile - Mainline 2.3.B.D - Plan and Profile - Crossroads | | | | | | | | | | | 0 | |
| 2.3.B.D - Plan and Plone - Crossioads 2.3.B.F - Conceptual cross sections | | | | | | | | | | | 0 | |
| 2.3.B.H - Analyze Drive locations | | | | | | | | | | | 0 | |
| 2.3.B.I - Identify Construction Limits | | | | | | | | | | | 0 | |
| 2.3.C - Drainage | | | | | | | | | | | Ū | |
| 2.3.C.A - Drainage Design Criteria Forms (LD-35) | | | | 1 | | | | | | | 1 | \$ |
| 2.3.C.C - Hydraulically size all major storm sewer trunk lines | | | 4 | 14 | | | | | | | 18 | \$2 |
| 2.3.C.E- Conceptual BMP | | | | 8 | | 1 | | | | | 9 | \$ |
| 2.3.C.F - Estimate impact to wetlands, streams, & other regulated | | | | - | | - | | | | | _ | |
| waters of the US and potential wetland mitigation | | | | | | | | | | | 0 | |
| 2.3.D - Traffic Control | | | | | | | | | | | | |
| 2.3.D.B - Documentation of Proprietary Bid Justification - Lighting | | | 2 | | | | | | | | 2 | \$ |
| 2.3.F - Maintenance of Traffic | | | | | | | | | | | | |
| 2.3.F.B - MOTAA | | | | | | | | | | | | |
| 2.3.F.B.5 - MOTAA - Detour Route Investigation | | | | | | | | | | | 0 | |
| 2.3.F.B.6 - MOTAA - Modeling - Queue Analysis | | | | | | | | | | | 0 | |
| 2.3.F.C - Conceptual MOT Plan (Without MOTAA) | | | | | | | | | | | 0 | |
| 2.3.G - Utilities | | | | | | | | | | | | |
| 2.3.G.A - Utility Coordination and Documentation | | | | | | | | | | | 0 | |
| 2.3.G.B - Subsurface Utility Engineering 2.3.H - Miscellaneous | | | | | | | | | | | 0 | |
| 2.3.H.C - Determine potential locations for retaining walls | | | | | | | | | | | 0 | |
| 2.3.H.E - Identify potential total take parcels | | | | | | | | | | | 0 | |
| 2.3.H.G - Evaluate aesthetic options | | | | | | | | | | | 0 | |
| 2.3.H.I - Determine need for Design Exception | | | | | | | | | | | 0 | |
| TOTAL 2.3 - AER Design | 0 | 0 | 6 | 23 | | 3 | 36 | 24 | 36 | 2 | 130 | \$16,692.50 |
| 4 - Prepare Cost Estimates | | | | | | | | | | | | |
| 2.4.A - Roadway/Interchange Costs | | | | | | | | | | | 0 | |
| 2.4.B - Right of Way Costs | | | | | | | | | | | 0 | |
| 2.4.C - Utility | | | | | | | | | | | 0 | |
| TOTAL 2.4 - Prepare Cost Estimates | 0 | 0 | 0 | 0 | | 0 | 0 | 0 | 0 | 0 | 0 | \$0.00 |
| 5 - AER Submittal and Other Studies | | | | | | | | | | | | |
| 2.5.E - Retaining wall justification | | | | | | | | | | | 0 | |
| TOTAL 2.5 - AER Submittal and Other Studies | 0 | 0 | 0 | 0 | | 0 | 0 | 0 | 0 | 0 | 0 | \$0.00 |
| 6 - Public Involvement/Coordination | | | | | | | | | | | | |
| 2.6.A - Public Involvement / Coordination | | 8 | 8 | | | 8 | | | | | 24 | \$3,2 |
| TOTAL 2.6 - Public Involvement/Coordination | 0 | 8 | 8 | 0 | | 8 | 0 | 0 | 0 | 0 | 24 | \$3,228.00 |
| | | | | | | | | | | | I I | |

| _ | Phase 2 - SR 241 (Massillon Rd.) a | and Cor | porate Woo | ods Circle | /Thorn I | Drive RAB | | | | | | | Version: Feb 2017 |
|--|--|-----------|--------------|-------------|----------|--------------|---------|---------|------------------------|-------------|----------|--|---|
| Agreement No. Modification No. PID No. | Environmental Design Group | | | | | | | | | | | | |
| Proposal Date | 10/23/2017 - Revised | Principal | Proj Manager | Sr Engineer | ENG/LA | Land Planner | CAD | Tech | Survey Proj Manager | Survey Crew | Clerical | т | otal |
| Task Description | | \$231.00 | \$178.00 | \$139.00 | \$108.00 | \$93.00 | \$86.50 | \$77.25 | \$170.00 | \$170.00 | \$67.00 | Hours | Cost |
| 2.7.A.A - Title Sheet 2.7.A.B - General No 2.7.A.C - Schematic 2.7.A.C - Roundabou 2.7.A.D - Typical Sec 2.7.A.E - Cross Sect 2.7.A.F - Plan and P 2.7.A.G - Plan and P 2.7.A.J - Intersection 2.7.A.L - Driveway D | otes Plan ut Geometrics ctions ions rofile - Mainline Profile - Crossroads o Details | | | | 8 | | 8 | | | | | 0 16 0 0 0 0 0 0 0 | \$0 \$1,556 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 |
| 2.7.A.M - Design Exc | ception Request | | | | | | | | | | | 0 | \$C |
| 2.7.A.N -Traffic Cont 2.7.A.P – ITS Traffic | | | | | | | | | | | | 0 0 | \$C \$C |
| 2.7.A.Q – Site/Civil I 2.7.B - Drainage | Design due to R/W impacts | | | | 16 | | 24 | | | | | 40 | \$3,804 |
| 2.7.B.A - Storm Sew | | | | 2 | 8 | | 24 | | | | | 34 | \$3,218 |
| 2.7.B.D - Drainage C 2.7.B.E - BMP Desig | | | | 8 | 32 16 | | 8 | | | | | 40 24 | \$4,568 \$2,420 |
| 2.7.C - Utilities | | | | | | | J | | | | | | |
| 2.7.C.B - Description 2.7.C.C - Subsurface | rdination and Documentation n or proposed water and/or sewer work e Utility Engineering (SUE) es to Plan/Profile Sheets | | | | | | | | | | | 0 0 0 0 | \$0 \$0 \$0 \$0 |
| 2.7.D - Geotechnical S | | | | | | | | | | | | 0 | |
| 2.7.E - Retaining Wall 2.7.G - Miscellaneous | Plans | | | | | | | | | | | 0 | \$0 \$0 |
| 2.7.G.C - Finalize Pa requirements | rway/Highway clearance analysis avement Build up and subsurface drainage | | | | | | | | | | | 0 | \$C \$C |
| 2.7.H - Prepare C2 Co 2.7.H.A - Roadway/I | ost Estimates and Update Milestones nterchange Costs | | | 4 | 8 | | 2 | | | | | 14 | \$1,593 |
| 2.7.H.B - Right of Wa 2.7.H.C - Utility Cost 2.7.I - Lighting Plans 2.7.J - Maintenance of | ay is | | | 4 | 8 | | | | | | | 0 0 12 | \$0 \$0 \$1,420 |
| 2.7.J.A - Detour Plar 2.7.J.B- Pedestrian/I 2.7.J.C- Conceptual | n Bike Lane Detour MOT Revision | | | | | | | | | | | 0 0 0 | \$C \$C \$C |
| 2.7.J.D - MOT Coord | dination Discussions TOTAL - 2.7 - Stage 1 Design | 0 | 0 | 18 | 96 | | 66 | 0 | 0 | 0 | 0 | 0 180 | \$0 \$18,579.00 |
| 2.8 - Project Managem | ent for Preliminary Engineering Phase | | | | | | | | | | | | |
| 2.8.A - Meetings 2.8.B - General Overs 2.8.C - Project Set Up 2.8.D - Non Routine (S | ight | | 8 10 | | | | | | | | | 8 10 0 0 | \$1,424 \$1,780 \$0 \$0 |
| | TOTAL 2.8 - Project Management for Preliminary Engineering Phase | 0 | 18 | 0 | 0 | | 0 | 0 | 0 | 0 | 0 | 18 | \$3,204.00 |
| | Total - 2 Preliminary Engineering Phase | 0 | 26 | 32 | 119 | 0 | 77 | 36 | 24 | 36 | 2 | 352 | \$41,703.50 |
| 3 - Environmenta | al Engineering Phase | | | | | | | | | | | | |
| | eld Studies and Refined Impacts | | | | | | | | | | | | |
| 3.1.A - Phase I Cultura | ai Archaeological | | | | 3 of 7 | | | | | | | 0 | \$C |

| C-R-S Consultant: Agreement No. | Phase 2 - SR 241 (Massillon Rd Environmental Design Group | l.) and Cor _l | porate Wo | ods Circle | /Thorn I | Drive RAB | | | | | | | Version: Feb 2017 |
|---|--|--------------------------|--------------|-------------|----------|--------------|---------|---------|-------------|-------------|----------|-------|---|
| Modification No. PID No. | 103172 | | | | | | | | | | | | |
| Proposal Date | 10/23/2017 - Revised | | | | | | | | Survey Proj | | | 1 | |
| | | Principal | Proj Manager | Sr Engineer | ENG/LA | Land Planner | CAD | Tech | Manager | Survey Crew | Clerical | - | Fotal |
| 3.1.C - Section 4 (f) 3.1.D - Phase I Env 3.1.E - Farmland St 3.1.F - Secondary a 3.1.G - Address NE 3.1.G - Address NE 3.1.H - Relocation A 3.1.I - Biological As 3.1.J Not Used 3.1.K- Determine Ri 3.1.L - Determine P 3.1.K- Determine P 3.1.M- Waterway P 3.1.N- Stream and N 3.1.O- Phase II Env 3.1.P- Air Quality A 3.1.Q - Mussel Surv | Itural Resource History/Architecture Survey) Determination vironmental Site Assessment tudies and Cumulative Review EPA Specific Environmental Justice Issues Assistance Program Conceptual Survey sessment for Federally Listed Species ight of Way Encroachments Potential Right of Way from Railway rermit Wetland Opportunities Inventory Report vironmental Site Assessment nalyses | \$231.00 | \$178.00 | \$139.00 | \$108.00 | \$93.00 | \$86.50 | \$77.25 | \$170.00 | \$170.00 | \$67.00 | Hours | Cost S S S S S S S S S S S S S S S S S S |
| | Environmental Field Studies and Refined Impa | cts 0 | 0 | 0 | 0 | | 0 | 0 | 0 | 0 | 0 | 0 | \$0.00 |
| | | | | | | | | | | | | | |
| 3.3 - Stage2 | | | | | | | | | | | | | |
| 3.3.A - Roadway 3.3.A.A - Title She | eet | | | | | | | | | | | | 5 |
| 3.3.A.B - Schema | | | | | | | | | | | | | 5 5 5 5 |
| 3.3.A.B - Roundal | | | | | | | | | | | | |) \$ |
| 3.3.A.C - General | | | | | | | | | | | | (| \$ |
| 3.3.A.D - Typical | | | | | | | | | | | | (|) \$) \$) \$ |
| | d Profile - Mainline | | | | | | | | | | | (| 5 |
| | d Profile - Crossroads | | | | | | | | | | | | \$ |
| 3.3.A.H - Cross So 3.3.A.I - Intersecti | | | | | | | | | | | | |) \$ |
| 3.3.A.J - Site/Civil | I design due to R/W impacts | | | 4 | 16 | | 40 | | | | | 60 | 5,74 5,74 |
| 3.3.B - Drainage | | | | · | 10 | | 10 | | | | | | φ0,/ 1 |
| 3.3.B.A - Storm Se | ewer Profiles | | | 1 | 8 | | 24 | | | | | 33 | 3 \$3,07 |
| 3.3.B.D - Underdr | rain details | | | | 8 | | 8 | | | | | 16 | § \$1,55 |
| 3.3.B.E - BMP De | | | | | 2 | | 2 | | | | | 4 | \$38 |
| | ary Drainage (MOT) | | | | | | | | | | | | |
| | porary Drainage (MOT) - Adding Temporary | | | | 4 | | 0 | | | | | 1: | 2 \$1,12 |
| Drainage to Plai | ns porary Drainage (MOT) - MOT Drainage | | | | 4 | | 8 | | | | | | 2 \$1,12 |
| Calculations | | | | | 8 | | | | | | | 8 | \$86 |
| 3.3.C - Traffic Conti | rol | | | | - | | | | | | | | |
| 3.3.C.A - Paveme | | | | | | | | | | | | (| D \$ |
| 3.3.C.B - Signing | | | | | | | | | | | | |) \$ |
| 3.3.D - Signals & IT | | | | | | | | | | | | | |
| 3.3.D.B - Intercon | | | | | | | | | | | | (|) \$ |
| 3.3.D.D - ITS (Tra 3.3.E - Maintenance | affic Surveillance) Plan Sheets | | | | | | | | | | | |) \$ |
| 3.3.E.A - MOT Ge | | | | | | | | | | | | (| \$ |
| | Plan- Custom Guide Signs | | | | | | | | | | | | \$) \$ |
| 3.3.E.C - Pedestri | ian/Bike Lane Detour – Plan Sheet | | | | | | | | | | | (|) \$ |
| | ary Signing Details | | | | | | | | | | | |) \$ |
| 3.3.E.E - MOT Ty | | | | | | | | | | | | (| \$ |
| 3.3.E.F - MOT Pla | an Sheets ary Signal Details (Modification of Existing or | | | | | | | | | | | (| \$ |
| Proposed Signal) | | | | | | | | | | | | | |
| 3.3 E G 1 - Tem | porary Signal Details (Modification of Existing or | | | | | | | | | | | | |
| 0.0.2.0.1 1011 | | | | | | | | | | | | | |

| Proposal Date 10/23/2017 - Revised | Principal | Proj Manager | Sr Engineer | ENG/LA | Land Planner | CAD | Tech | Survey Proj Manager | Survey Crew | Clerical | т | otal |
|---|-----------|--------------|-------------|----------|--------------|---------|-----------------------|------------------------|-------------|----------|-------|---|
| Task Description | ¢004.00 | ¢470.00 | ¢420.00 | ¢400.00 | ¢02.00 | ¢06 50 | Ф77 О <i>Г</i> | ¢470.00 | ¢470.00 | ¢67.00 | Hours | Cost |
| 3.1.B - Phase II Cultural Resource History/Architecture Survey | \$231.00 | \$178.00 | \$139.00 | \$108.00 | \$93.00 | \$86.50 | \$77.25 | \$170.00 | \$170.00 | \$67.00 | | COSI \$0 |
| 3.1.C - Section 4 (f) Determination | | | | | | | | | | | 0 | |
| 3.1.D - Phase I Environmental Site Assessment | | | | | | | | | | | 0 | \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$ |
| 3.1.E - Farmland Studies | | | | | | | | | | | 0 | \$0 |
| 3.1.F - Secondary and Cumulative Review | | | | | | | | | | | 0 | \$0 \$0 |
| 3.1.G - Address NEPA Specific Environmental Justice Issues | | | | | | | | | | | 0 | \$0 \$0 |
| 3.1.H - Relocation Assistance Program Conceptual Survey 3.1.I - Biological Assessment for Federally Listed Species | | | | | | | | | | | 0 | ው መ |
| 3.1.J Not Used | | | | | | | | | | | 0 | \$0 \$0 |
| 3.1.K- Determine Right of Way Encroachments | | | | | | | | | | | 0 | \$0 \$0 |
| 3.1.L - Determine Potential Right of Way from Railway | | | | | | | | | | | 0 | \$0 |
| 3.1.M- Waterway Permit | | | | | | | | | | | 0 | \$0 |
| 3.1.N- Stream and Wetland Opportunities Inventory Report | | | | | | | | | | | 0 | \$0 |
| 3.1.O- Phase II Environmental Site Assessment | | | | | | | | | | | 0 | \$0 \$0 |
| 3.1.P- Air Quality Analyses 3.1.Q - Mussel Survey | | | | | | | | | | | 0 | \$U \$0 |
| 3.1.R – FIS Analysis, Revisions, and Coordination | | | | | | | | | | | 0 | \$0 \$0 |
| TOTAL 3.1 - Environmental Field Studies and Refined Impacts | 0 | 0 | 0 | 0 | | 0 | 0 | 0 | 0 | 0 | 0 | \$0.00 |
| | | | | | | | | | | | | |
| 3.3 - Stage2 | | | | | | | | | | | | |
| 3.3.A - Roadway | | | | | | | | | | | | |
| 3.3.A.A - Title Sheet | | | | | | | | | | | 0 | \$0 |
| 3.3.A.B - Schematic | | | | | | | | | | | 0 | \$0 \$0 |
| 3.3.A.B - Roundabout Geometrics 3.3.A.C - General Notes | | | | | | | | | | | 0 | \$U \$0 |
| 3.3.A.D - Typical Sections | | | | | | | | | | | 0 | \$0 \$0 |
| 3.3.A.E- Plan and Profile - Mainline | | | | | | | | | | | 0 | \$0 \$0 \$0 \$0 \$0 |
| 3.3.A.F - Plan and Profile - Crossroads | | | | | | | | | | | 0 | \$0 |
| 3.3.A.H - Cross Sections | | | | | | | | | | | 0 | \$0 |
| 3.3.A.I - Intersection Details | | | | 4.0 | | 40 | | | | | 0 | \$0 \$5 = 1 1 |
| 3.3.A.J - Site/Civil design due to R/W impacts | | | 4 | 16 | | 40 | | | | | 60 | \$5,744 |
| 3.3.B - Drainage 3.3.B.A - Storm Sewer Profiles | | | 1 | 8 | | 24 | | | | | 33 | \$3,079 |
| 3.3.B.D - Underdrain details | | | I | 8 | | 8 | | | | | 16 | \$1,556 |
| 3.3.B.E - BMP Details | | | | 2 | | 2 | | | | | 4 | \$389 |
| 3.3.B.F - Temporary Drainage (MOT) | | | | | | | | | | | | |
| 3.3.B.F.1 - Temporary Drainage (MOT) - Adding Temporary | | | | | | | | | | | | |
| Drainage to Plans | | | | 4 | | 8 | | | | | 12 | \$1,124 |
| 3.3.B.F.2 - Temporary Drainage (MOT) - MOT Drainage | | | | 0 | | | | | | | 0 | ¢964 |
| Calculations 3.3.C - Traffic Control | | | | 8 | | | | | | | 0 | \$864 |
| 3.3.C.A - Pavement Marking Plan | | | | | | | | | | | 0 | \$0 |
| 3.3.C.B - Signing Plan | | | | | | | | | | | 0 | \$0 |
| 3.3.D - Signals & ITS | | | | | | | | | | | | |
| 3.3.D.B - Interconnect Details | | | | | | | | | | | 0 | \$0 |
| 3.3.D.D - ITS (Traffic Surveillance) Plan Sheets | | | | | | | | | | | 0 | \$0 |
| 3.3.E - Maintenance of Traffic 3.3.E.A - MOT General Notes | | | | | | | | | | | 0 | ¢0 |
| 3.3.E.B - Detour Plan- Custom Guide Signs | | | | | | | | | | | 0 | \$0 \$0 |
| 3.3.E.C - Pedestrian/Bike Lane Detour – Plan Sheet | | | | | | | | | | | 0 | \$0 \$0 |
| 3.3.E.D - Temporary Signing Details | | | | | | | | | | | 0 | \$0 \$0 \$0 \$0 \$0 |
| 3.3.E.E - MOT Typical Sections | | | | | | | | | | | 0 | \$0 |
| 3.3.E.F - MOT Plan Sheets | | | | | | | | | | | 0 | \$0 |
| 3.3.E.G - Temporary Signal Details (Modification of Existing or | | | | | | | | | | | | |
| Proposed Signal) 3.3.E.G.1 - Temporary Signal Details (Modification of Existing or | | | | | | | | | | | | |
| Proposed Signal) – Adjustments of Heads, Timing & Detection | | | | | | | | | | | 0 | \$0 |
| reposed eignar ragionnens of fields, finning & Deteolion | | | | | | | | | | | • | φΟ |

C-R-S Phase 2 - SR 241 (Massillon Rd.) and Corporate Woods Circle/Thorn Drive RAB

| Consultant: | Environme | ental De |
|----------------------|------------|----------|
| Agreement No. | | |
| Modification No. | | |
| PID No. | 103172 | |
| Branacal Data | 40/00/0047 | Devices |

| Environmental Design Group | |
|----------------------------|--|
|----------------------------|--|

| Proposal Date 10/23/2017 - Revised | | | | | | | | | | | | |
|---|-----------|--------------|-------------|----------|--------------|---------|-----------------|------------------------|----------------|----------|-------------|---------------------------|
| | Principal | Proj Manager | Sr Engineer | ENG/LA | Land Planner | CAD | Tech | Survey Proj Manager | Survey Crew | Clerical | т | otal |
| Task Description | ¢221.00 | \$178.00 | \$139.00 | \$108.00 | \$93.00 | \$86.50 | \$77.25 | \$170.00 | \$170.00 | \$67.00 | Hours | Cost |
| 3.3.E.G.2 - Temporary Signal Details (Modification of Existing or | \$231.00 | \$178.00 | \$139.00 | φ100.00 | \$93.00 | фо0.00 | φ <i>11.</i> 25 | \$170.00 | Φ170.00 | Φ07.0U | nours | COSI |
| Proposed Signal) - Temporary Pole Placement | | | | | | | | | | | 0 | \$0 |
| 3.3.E.J - MOT Coordination Discussions | | | | | | | | | | | 0 | \$0 |
| 3.3.E.K - MOT Constructability Coordination | | | | | | | | | | | 0 | \$0 |
| 3.3.E.L - Temporary Pavement Sections and Earthwork | | | | | | | | | | | 0 | \$0 |
| 3.3.E.N - MOT Temporary Access Details | | | | | | | | | | | | |
| 3.3.E.N.1 - MOT Temporary Access Details - Temporary Drive | | | | | | | | | | | | • |
| | | | | | | | | | | | 0 | \$0 |
| 3.3.E.O - Miscellaneous MOT Details | | | | | | | | | | | 0 | ¢0 |
| 3.3.E.O.1 - Miscellaneous MOT Details - Plan Insert Sheets | | | | | | | | | | | 0 | \$0 |
| 3.3.F - Lighting Plan 3.3.F.A - Lighting Analysis | | | 0 | 1 | | | | | | | 12 | \$1,544 |
| 3.3.F.B - Power/Circuit Layout, Notes, and Details | | | 8 | 4 | | 16 | | | | | 26 | \$1,544 |
| 3.3.F.C - Lighting Plan, Notes, and Details | | | 16 | 2 | | 24 | | | | | 20 46 | \$4,948 |
| 3.3.F.D - Voltage Drop Calculations | | | 8 | 2 | | 27 | | | | | 10 | \$1,328 |
| 3.3.F.E - Power Service | | | 6 | 2 | | | | | | | .5 | \$1,050 |
| 3.3.G - Landscape Plan | | | | _ | | | | | | | | ÷.,000 |
| 3.3.G.A - Landscape Plan and Details | | | | 40 | | | 80 | | | | 120 | \$10,500 |
| 3.3.G.B - General Notes | | | | 16 | | | 8 | | | | 24 | \$2,346 |
| 3.3.J - Utilities | | | | | | | | | | | | |
| 3.3.J.A - Utility Coordination and Documentation | | | | | | | | | | | 0 | \$0 |
| 3.3.J.B - Water Works Plan | | | 4 | 16 | | 24 | | | | | 44 | \$4,360 |
| 3.3.J.C - Water Works Details & Notes | | | | 4 | | 8 | | | | | 12 | \$1,124 |
| 3.3.J.D - Sanitary Sewer Plans | | | 4 | 16 | | 24 | | | | | 44 | \$4,360 |
| 3.3.K - Geotechnical Services | | | | | | | | | | | 0 | \$0 |
| 3.3.K.A - Finalize Geotechnical Investigation and Report | | | | | | | | | | | 0 | |
| TOTAL 3.3 - Stage2 | 0 | 0 | 59 | 154 | | 178 | 88 | 0 | 0 | 0 | 479 | \$47,028.00 |
| 3.4 - Right of Way Plans | | | | | | | | | | | | |
| 3.4.A Conceptual Right of Way Plan Review | | | | | | | | 8 | | | 8 | \$1,360 |
| 3.4.B - Preliminary Right of Way Plans | | | | | | | | Ŭ | | | Ū | \$1,000 |
| 3.4.B.A - Legend Sheet | | | | | | | 6 | 4 | | | 10 | \$1,144 |
| 3.4.B.B - Centerline Survey Plat | | | | | | | 6 | 4 | | | 10 | \$1,144 |
| 3.4.B.C - Property Map | | | | | | | 8 | 4 | | | 12 | \$1,298 |
| 3.4.B.D - Summary of Additional Right of Way | | | | | | | 8 | 4 | | | 12 | \$1,298 |
| 3.4.B.E - Detailed ROW Plan Sheets | | | | | | | 32 | 6 | | | 38 | \$3,492 |
| 3.4.B.F - Special Plats | | | | | | | | | | | 0 | \$0 |
| 3.4.B.G - Legal Descriptions and Closure Calculations | | | | 4 | | | | 6 | | 4 | 14 | \$1,720 |
| 3.4.B.H - Right-of-Way Acquisition Estimate | | | | | | | | 4 | | | 4 | \$680 |
| 3.4.B.I - Field Review | | | | | | | | 4 | | | 4 | \$680 |
| 3.4.C - Final Right of Way Plans | | | | | | | C C | 0 | | | 0 | ФОО4 |
| 3.4.C.A Final Right of Way Plans 3.4.C.B- Field Review & Verify Property Owners | | | | 2 | | | 6 | 2 | | | 8 | \$804 \$556 |
| 3.4.C.C - Record Centerline Plat and all appropriate documents | | | | 2 | | | | 2 | | | 4 | 00CC¢ 02 |
| 3.4.C.D - Set R/W Pins after acquisition | | | | | | | | 2 | 4 | | 6 | پ 0 \$1,020 |
| TOTAL 3.4 - Right of Way Plans | 0 | 0 | 0 | 6 | | 0 | 66 | 50 | 4 | 4 | 130 | \$15,194.50 |
| | | | | | | | | | | | | |
| 3.5 - Prepare Environmental Document | | | | | | | | | | | | |
| 3.5.A - Prepare Environmental Document | | | | | | | | | | | 0 | \$0 |
| TOTAL 3.5 - Prepare Environmental Document | 0 | 0 | 0 | 0 | | 0 | 0 | 0 | 0 | 0 | 0 | \$0.00 |
| 3.6 - Environmental Commitments and Plan Notes | | | | | | | | | | | | |
| 3.6.A - Environmental Commitments and Plan Notes | | | | | | | | | | | 0 | \$0 |
| TOTAL 3.6 - Environmental Commitments and Plan Notes | 0 | 0 | 0 | 0 | | 0 | 0 | 0 | 0 | 0 | 0 | \$0.00 |
| | 0 | 0 | 0 | 0 | | 0 | 0 | 0 | 0 | 0 | | φ0.00 |
| | | | | | | | | | | | | |
| 3.7 - Final Mitigation Plans Coordination | | | | | | | | | | | | |
| 3.7 - Final Mitigation Plans Coordination 3.7.A - Mitigation for Cultural Resources | | | | | | | | | | | 0 | \$0 |
| | | | | | | | | | | | 0 | \$0 |
| 3.7.A - Mitigation for Cultural Resources | | | | | | | | | | | 0 0 0 | \$0 \$0 \$0 |

C-R-S Phase 2 - SR 241 (Massillon Rd.) and Corporate Woods Circle/Thorn Drive RAB

Consultant: Environmental Design Group Agreement No. Modification No. PID No. Proposal Date 103172 10/23/2017 - Revised

| Probin Proj Manager Sr Engine BMDA Land Planer DA Table Manager Strander Distrander Distrander <thdistrander< th=""> Distrander</thdistrander<> | Proposal Date | 10/23/2017 - Revised | | | | | | | | | | | | |
|---|---------------------------------------|---|-----------|--------------|-------------|----------|--------------|---------|---------|------------------------|-------------|----------|---------|------------------------|
| 12.70-Misguine Test to constraints 0 | | | Principal | Proj Manager | Sr Engineer | ENG/LA | Land Planner | CAD | Tech | Survey Proj Manager | Survey Crew | Clerical | Т | otal |
| TotAl 2.7 Final Miggino Plane Coordination a b a a c a b a 38.4 - Roadong/Merchange Coss 4 8 4 8 4 8 7 < | Task Descriptio | on | \$231.00 | \$178.00 | \$139.00 | \$108.00 | \$93.00 | \$86.50 | \$77.25 | \$170.00 | \$170.00 | \$67.00 | Hours | Cost |
| B. Proceeding Estimates and Provide Milestone Image: Provide Milestone <td>3.7.D - Mitigation F</td> <td></td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td></td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>\$0 \$0.00</td> | 3.7.D - Mitigation F | | 0 | 0 | 0 | 0 | | 0 | 0 | 0 | 0 | 0 | 0 | \$0 \$0.00 |
| 33.8 - Statuting Costs 4 8 4 9 1 51,75 33.8 - Ontained Costs 0 0 4 8 4 0 0 0 15 51,75 33.8 - Ontained Costs 0 0 0 4 8 4 0 0 0 15 51,76 | 2.0 Drevens Cost | | Ū | Ŭ | Ŭ | Ū | | Ū | 0 | Ū | Ū | Ū | | \$0.00 |
| 3.8.2. Ubiny Costs 0 0 4 3 4 0 0 0 0 105 53/68 3.9. Diblect Management for Environmental Engineering Phase 6 5 | | | | | 4 | 8 | | 4 | | | | | 16 | \$1,766 |
| TOTAL 33 - Proper Cost Estimates and Ravies Mission 0 0 4 8 4 0 0 0 10 \$1785.00 33 - Project Set Management for Environmental Engineering Phase 0 </td <td>3.8.B- Structures C</td> <td>Costs</td> <td></td> <td>0</td> <td>\$0</td> | 3.8.B- Structures C | Costs | | | | | | | | | | | 0 | \$0 |
| 3.9 - Project Management for Environmental Engineering Phase 6 5 3.9.4 Madrig 6 8 8 4 8 8 7 8 | | | 0 | 0 | Λ | Q | | Λ | 0 | 0 | 0 | 0 | 16 | \$0 \$1 766 00 |
| 3.3.9 Concision 6 51.42 50.4 6 51.42 3.3.9 Concision 10 10 10 10 51.42 3.3.0 Concision 10 0 0 0 0 0 16 53.04 State Section 18 0 0 10 0 </td <td></td> <td></td> <td>U</td> <td>0</td> <td></td> <td>0</td> <td></td> <td></td> <td>0</td> <td>0</td> <td>U</td> <td>U</td> <td></td> <td>\$1,700.00</td> | | | U | 0 | | 0 | | | 0 | 0 | U | U | | \$1,700.00 |
| 3.3.6 Concerize Oversight 10 17.70 | | ement for Environmental Engineering Phase | | 0 | | | | | | | | | 0 | ¢1.404 |
| 3.0.2 Project Set Up 3.0.2. Non Routine (Sch) Item 0 0 0 0 0 0 0 0 16 \$3.0.2. Non Routine (Sch) Item 50.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0. | • | versight | | - | | | | | | | | | 8 10 | \$1,780 |
| TotAL 3.9 - Project Management for Environmental Engineering Phase 0 0 0 0 0 0 0 15 \$\$2.04.00 Total - 3 Environmental Engineering Phase 0 18 63 163 0 152 154 50 4 4 643 \$\$7/192.50 4 - Final Engineering and R/W Phase 4 16 12 164 4 643 \$\$7/192.50 42.A.C - Roadway Subsurmary 4 12 10 4 | | | | | | | | | | | | | 0 | \$0 \$0 |
| Total - 3 Environmental Engineering Phase 0 18 63 168 0 182 154 50 4 633 567/192.50 4 - Final Engineering and RW Phase | 3.9.D - NOT KOUIII | | | | | | | | | | | | | \$ 0 |
| 4 - Final Engineering and R/W Phase 5 42 Stage 3 Detailed Design Plans 6 42.A Quantifies and Notes 6 4.2.A Poremet Subsummary 4 12 16 4.2.A Poremet Subsummary 6 5 4.2.A Poremet Maring Subsummary 6 5 4.2.A Poremet Maring Subsummary 6 5 4.2.A. E - Waintenance of Traffic Subsummary 6 5 4.2.A. F. Johnstower of Traffic Subsummary 6 5 4.2.A Signing Subsummary 6 5 4.2.A Landscape Subsummary 6 5 4.2.A Signing Subsummary 4 8 4 4.2.A Landscape Subsummary 6 5 4.2.A Charant Mating 6 5 4.2.A Signing Subsummary 4 8 4 4.2.A Charant Mating 6 5 4.2.A Charant Mating 6 5 4.2.A Charant Mating <td< td=""><td></td><td>Environmental Engineering Phase</td><td>0</td><td>18</td><td>0</td><td>0</td><td></td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>18</td><td>\$3,204.00</td></td<> | | Environmental Engineering Phase | 0 | 18 | 0 | 0 | | 0 | 0 | 0 | 0 | 0 | 18 | \$3,204.00 |
| 4 - Final Engineering and R/W Phase 5 42.A Quantiles and Notes 5 4.2.A Puerners Musburmary 6 4.2.A Puerners Musburmary 4 4.2.A Puerners Musburmary 6 4.2.A Puerners Musburmary 6 4.2.A Puerners Musburmary 6 4.2.A Puerners Musburmary 6 4.2.A. E - Maintenance of Treffic Suburmary 6 4.2.A. F. Maintenance of Treffic Suburmary 6 4.2.A Signing Suburmary 6 4.2.A Landscope Suburmary 6 4.2.A Conteral Musica 6 4.2.A Signing Suburmary 7 4.2.A S | | | | | | | | | | | | | | |
| 4.2 Stage 3 Detailed Design Plans 4 5 5 42.A.A. Pawment Subsummary 4 12 16 5 42.A.B. Charling Subsummary 4 12 16 32 32.3 42.A.B. Charling Subsummary 4 12 16 32 32.3 42.A.F. Charling Subsummary 4 12 16 32 32.3 42.A.F. Favement Marking Subsummary 4 12 16 35 42.A.F. Favement Marking Subsummary 4 8 4 6 8 42.A.F. Lighting Subsummary 4 8 4 16 51.76 42.A.L. Stignal Subsummary 4 8 4 16 51.76 42.A.L. Charling Wall Subsummary 4 8 4 16 51.76 42.A.L. Charling Subsummary 4 8 4 16 51.76 42.A.L. Charling Subsummary 4 8 4 16 51.76 42.A.L. Charling Subsummary of Driveway Details (if included on same shoot) 16 4 8 32 32.32 42.A.P. Liphting Noles 16 | | Total - 3 Environmental Engineering Phase | 0 | 18 | 63 | 168 | 0 | 182 | 154 | 50 | 4 | 4 | 643 | \$67,192.50 |
| 4.2 Stage 3 Detailed Design Plans 4 5 5 42.A.A. Pawment Subsummary 4 12 16 5 42.A.B. Charling Subsummary 4 12 16 32 32.3 42.A.B. Charling Subsummary 4 12 16 32 32.3 42.A.F. Charling Subsummary 4 12 16 32 32.3 42.A.F. Favement Marking Subsummary 4 12 16 35 42.A.F. Favement Marking Subsummary 4 8 4 6 8 42.A.F. Lighting Subsummary 4 8 4 16 51.76 42.A.L. Stignal Subsummary 4 8 4 16 51.76 42.A.L. Charling Wall Subsummary 4 8 4 16 51.76 42.A.L. Charling Subsummary 4 8 4 16 51.76 42.A.L. Charling Subsummary 4 8 4 16 51.76 42.A.L. Charling Subsummary of Driveway Details (if included on same shoot) 16 4 8 32 32.32 42.A.P. Liphting Noles 16 | | | | | | | | | | | | | | |
| 4.2.A Quantities and Notes 0 4.2.A. A. Pavement Subsummary 0 4.2.A. B. Pravement Subsummary 12 16 4.2.A. B. Pravement Subsummary 0 4.2.A. P. Pravement Marking Subsummary 0 4.2.A. F. Signing Subsummary 0 4.2.A. J. Signing Subsummary 0 4.2.A. J. Signing Subsummary 4 4.2.A. J. Lighting Subsummary 4 4.2.A. J. Lighting Subsummary 4 4.2.A. J. Lighting Subsummary 4 4.2.A. J. Chardscape Subsummary of Driveway Details (if included on same show many of Driveway Details (if included on same show many show many show many show many show many show show show show show show show show | 4 - Final Engir | neering and R/W Phase | | | | | | | | | | | | |
| 42.A.B. Pavement Subsummary 4 12 16 3 32.32 32.32 32.42.6. Parling Subsummary 0 8 4.0.6. Parling Subsummary 16 8 4.0.6. Parling Subsummary 16 8 4.0.6. Parling Subsumary 16 8 9 </td <td>4.2 - Stage 3 Detaile</td> <td>ed Design Plans</td> <td></td> | 4.2 - Stage 3 Detaile | ed Design Plans | | | | | | | | | | | | |
| 42.A.B. Pavement Subsummary 4 12 16 3 32.32 32.32 32.42.6. Parling Subsummary 0 8 4.0.6. Parling Subsummary 16 8 4.0.6. Parling Subsummary 16 8 4.0.6. Parling Subsumary 16 8 9 </td <td>4.2.A - Quantities a</td> <td>and Notes</td> <td></td> | 4.2.A - Quantities a | and Notes | | | | | | | | | | | | |
| 4.2.A.C. Roadway Subsummary 0 0 4.2.A.C. Maintenance of Traffic Subsummary 0 0 4.2.A.C. Signing Subsummary 0 0 4.2.A.L. Subsummary 4 8 4 4.2.A.L. Landscape Subsummary 4 8 4 6 51.76 4.2.A.L. General Summary Subsummary 4 8 4 6 8 8 4.2.A.D. General Notes 0 8 | 4.2.A.A - Paveme | ent Subsummary | | | | | | | | | | | 0 | \$0 |
| 4.2.A.E - Maintenance of Traffic Subsummary 0 0 4.2.A.F - Pavement Marking Subsummary 0 0 4.2.A.G - Signal Subsummary 0 0 4.2.A.J - Retaining Wall Subsummary 0 0 4.2.A.J - Retaining Wall Subsummary 0 0 4.2.A.J - Retaining Wall Subsummary 4 8 4 0 0 4.2.A.J - Retaining Wall Subsummary 4 8 4 0 5 4.2.A.J - General Summary 4 8 4 0 5 4.2.A.M - General Summary Sheet 2 4 2 8 8 4.2.A.P Driveway Subsummary or Driveway Details (ff included on same sheet) 0 5 5 3.2 3.2 8 | 4.2.A.B - Drainag 4.2.A.C - Roadwa | ge Subsummary ay Subsummary | | | 4 | 12 | | 16 | | | | | 32 0 | \$3,236 \$0 |
| 4.2.A.I - Signal Subsummary 0 S 4.2.A.V Retaining Wall Subsummary 4 8 4 51.76 4.2.A.V Lighting Subsummary 4 8 4 51.76 4.2.A.V Lighting Subsummary 2 4 2 51.76 4.2.A.V General Summary Sheet 2 4 2 68 4.2.A.P General Notes 2 4 2 8 4.2.A.P General Notes 2 4 2 8 4.2.A.P General Notes 0 5 4.2.A.P General Notes 0 5 4.2.A.P Subsummary or Driveway Details (if included on 5 5 same sheet) 6 4 8 2 5.33 4.2.B.P Stie/GMI Subsummary 4 12 16 3 32.323 4.2.B.A Wiring diagram & pole orientation 3 32.323 32.323 32 32 32.323 32.323 32 32.323 32.323 32.323 32.323 32.323 32.323 32.323 32.323 32.323 32.323 32.323 32.323 32.323 32.3 | 4.2.A.E - Mainter | nance of Traffic Subsummary | | | | | | | | | | | 0 | \$ 0 |
| 4.2.A.I - Signal Subsummary 0 S 4.2.A.I - Retaining Wall Subsummary 4 8 4 51,76 4.2.A.I - Lindscape Subsummary 4 8 4 51,76 4.2.A.I - Landscape Subsummary 2 4 2 51,76 4.2.A.I - Landscape Subsummary Obiveway Details (if included on same sheet) 2 4 2 6 3 4.2.A.I - Ceneral Notes 16 4 8 4 0 8 4.2.A.F - General Notes 16 4 8 6 8 4.2.A.F - General Notes 16 4 8 2 3.3 4.2.A.F - Stien Stub Subsummary 4 12 16 3 3.2 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>0 0</td><td>\$0 \$0</td></td<> | | | | | | | | | | | | | 0 0 | \$0 \$0 |
| 4.2.A.K Lighting Subsummary 4 8 4 6 51,76 4.2.A.K General Summary Sheet 2 4 2 888 4.2.A.P General Notes 2 4 2 888 4.2.A.P General Notes 0 8 4.2.A.P General Notes 16 4 8 4.2.A.P Lighting Notes 16 4 8 3 4.2.A.P Lighting Notes 16 4 8 3 3 4.2.B.4 Hing Chant 16 4 8 4 6 3 4.2.B.4 Hing Glagram & Bole orientation 4 12 16 5 3 3 4 4.2.C.A. Signing Plans | 4.2.A.H - Signal | Subsummary | | | | | | | | | | | 0 | \$0 |
| 4.2.A.L Landscape Subsummary 4 8 4 16 \$1,76 4.2.A.M General Notes 2 4 2 8 \$88 4.2.A.P General Notes 0 3 4.2.A.Q Driveway Subsummary or Driveway Details (if included on same sheet) 0 \$ 4.2.A.R Lighting Notes 16 4 8 0 \$ 4.2.B Traffic Signal Plans & ITS Plans 16 4 8 2 \$ \$3,33 4.2.B.A Wing diagram & pole orientation 4 12 16 2 \$\$ \$3,33 4.2.B.A Wing diagram & pole orientation 4 12 16 0 \$\$ 4.2.B.A Wing diagram & pole orientation 4 12 16 0 \$\$ 4.2.B.A Wing diagram & pole orientation 4 2 16 0 \$\$ 4.2.B.A Ning Glant 4 2 16 0 \$\$ 4.2.B.A Signing Plans 4 2 0 \$\$ 4.2.C.A Signing Plans 4 3 3 \$\$ 4.2.C.A Signing Plans 4 4 | | | | | 4 | 8 | | 4 | | | | | 0 16 | \$0 \$1 766 |
| 4.2.A.P General Notes 0 4.2.A.Q Driveway Subsummary or Driveway Details (if included on same sheet) 0 same sheet) 0 4.2.A.R Lighting Notes 16 4 8 28 \$3,34 4.2.A.R Lighting Notes 16 4 8 28 \$3,34 4.2.A.S Sine/CVM Subsummary 4 12 16 32 \$3,33 4.2.B Traffic Signal Plans & ITS Plans 32 \$3,33 \$3,23 34 16 4 8 28 \$3,34 4.2.B Traffic Signal Plans & ITS Plans 4 12 16 32 \$3,32 4.2.B.A Wiring diagram & pole orientation 4 12 16 36 \$3 4.2.B.A Traffic Surveillance) 0 \$\$ 4.2.B.A. \$\$ \$3 \$4 \$6 \$5 4.2.C.A Signing Plans 5 5 5 6 \$\$ \$5 </td <td>4.2.A.L - Landsca</td> <td>ape Subsummary</td> <td></td> <td></td> <td>4</td> <td>8</td> <td></td> <td>4</td> <td></td> <td></td> <td></td> <td></td> <td>16</td> <td>\$1,766</td> | 4.2.A.L - Landsca | ape Subsummary | | | 4 | 8 | | 4 | | | | | 16 | \$1,766 |
| 4.2.A.Q Driveway Subsummary or Driveway Details (if included on same sheet) 0 same sheet) 0 4.2.A.R Lighting Notes 16 4 8 28 \$3.34 4.2.A.R Stel/CAVI Subsummary 4 12 16 32 \$3.23 4.2.B Traffic Signal Plans & ITS Plans 32 42.2.8.3 \$3.23 32 \$3.23 4.2.B Traffic Signal Plans & ITS Plans 0 16 4 16 32 \$3.23 4.2.B Traffic Signal Plans & ITS Plans 0 0 \$3 \$3.24 \$3.24 \$3.25 | | | | | 2 | 4 | | 2 | | | | | 8 | \$883 \$0 |
| 4.2.A.R - Lighting Notes 16 4 8 28 \$3,34 4.2.A.S - Site/Civil Subsummary 4 12 16 32 \$3,23 4.2.A.S - Site/Civil Subsummary 4 12 16 32 \$3,23 4.2.B.S - Site/Civil Subsummary 4 12 16 32 \$3,23 4.2.B.S - Traffic Signal Plans & ITS Plans - | | | | | | | | | | | | | 0 | ΨΟ |
| 4 2 A S - Site/Civil Subsummary 4 12 16 32 \$3,23 4.2.B Traffic Signal Plans & ITS Plans 0 \$ 4.2.B. A - Wiring diagram & pole orientation 0 \$ 4.2.B. A - Wiring diagram & pole orientation 0 \$ 4.2.B. F. Timing Chart 0 \$ 4.2.B. F. TIS (Traffic Surveillance) 0 \$ 4.2.B Signing Plans 0 \$ 4.2.C. A - Signing Plans 0 \$ 4.2.C. A - Signing Plans 0 \$ 4.2.D. G. Flevation View of Major Signs 0 \$ 4.2.D. C. Project Site Plan 0 \$ 4.2.D. C - Troject Site Plan 0 \$ | | n Notes | | | 16 | 4 | | 8 | | | | | 0 28 | \$0 \$3 348 |
| 4.2.B.A - Wiring diagram & pole orientation0\$4.2.B.B - Timing Chart0\$4.2.B.E - ITS (Traffic Surveillance)0\$4.2.C Signing Plans0\$4.2.C.A - Signing Plans0\$4.2.C.B - Elevation View of Major Signs0\$4.2.C.C - SignCAD0\$4.2.D - Miscellaneous0\$4.2.D B - Prepare FAA Form 7460-1 for Airway/Highway Clearance0\$4.2.D.G - Title Sheet0\$4.2.E - Lighting Plans0\$ | 4.2.A.S - Site/Civ | /il Subsummary | | | 4 | | | | | | | | | \$3,236 |
| 4.2.B.F - Timing Chart0\$4.2.B.F - ITS (Traffic Surveillance)0\$4.2.C Signing Plans0\$4.2.C.A - Signing Plans0\$4.2.C.B - Elevation View of Major Signs0\$4.2.C SignCAD0\$4.2.D - Miscellaneous0\$4.2.D B - Prepare FAA Form 7460-1 for Airway/Highway Clearance0\$4.2.D.G - Title Sheet0\$4.2.D.G - Title Sheet0\$4.2.E - Lighting Plans0\$ | | | | | | | | | | | | | 0 | \$0 |
| 4.2.C - Signing PlansImage: state of the stat | 4.2.B.B - Timing | Chart | | | | | | | | | | | 0 | \$0 |
| 4.2.C.A - Signing Plans0\$4.2.C.B - Elevation View of Major Signs0\$4.2.C.C - SignCAD0\$4.2.D - Miscellaneous0\$4.2.D B - Prepare FAA Form 7460-1 for Airway/Highway Clearance0\$4.2.D C - Project Site Plan0\$4.2.D.G - Title Sheet0\$4.2.E - Lighting Plans0\$ | | | | | | | | | | | | | 0 | \$0 |
| 4.2.C. C - SignCAD04.2.D - Miscellaneous04.2.D B - Prepare FAA Form 7460-1 for Airway/Highway Clearance04.2.D C - Project Site Plan04.2.D.G - Title Sheet04.2.E - Lighting Plans0 | | | | | | | | | | | | | 0 | \$0 |
| 4.2.D - Miscellaneous04.2.D B - Prepare FAA Form 7460-1 for Airway/Highway Clearance04.2.D C - Project Site Plan04.2.D.G - Title Sheet04.2.E - Lighting Plans0 | | | | | | | | | | | | | 0 | \$0 \$0 |
| 4.2.D C - Project Site Plan4.2.D.G - Title Sheet4.2.E - Lighting Plans | 4.2.D - Miscellaneo | ous | | | | | | | | | | | 0 | φυ |
| 4.2.D.G - Title Sheet 4.2.E - Lighting Plans | | | | | | | | | | | | | 0 | \$0 \$0 |
| | 4.2.D.G - Title Sh | neet | | | | | | | | | | | 0 | \$0 \$0 |
| | | | | 0 | 10 | 24 | | 26 | | | | | 74 | ¢7 700 |
| TOTAL 4.2 - Stage 3 Detailed Design Plans 0 2 46 72 86 0 0 0 206 \$21,965.00 | | | 0 | | | | | | 0 | 0 | 0 | 0 | - | \$7,730 \$21,965.00 |

| Proposal Date | 10/23/2017 - Revised | | | | | | | | | | | | |
|--|--|-----------|--------------|-------------|----------|--------------|----------|---------|------------------------|-------------|----------|-------------|------------------------|
| | | Principal | Proj Manager | Sr Engineer | ENG/LA | Land Planner | CAD | Tech | Survey Proj Manager | Survey Crew | Clerical | Т. | otal |
| Task Descriptio | on Plan for Other Features | \$231.00 | \$178.00 | \$139.00 | \$108.00 | \$93.00 | \$86.50 | \$77.25 | \$170.00 | \$170.00 | \$67.00 | Hours | Cost \$0 |
| 3.7.D - Mitigation P | TOTAL 3.7 - Final Mitigation Plans Coordination | 0 | 0 | 0 | 0 | | 0 | 0 | 0 | 0 | 0 | 0 | \$0.00 |
| 3.8 - Prepare Cost E | Estimates and Revise Milestone | | | | | | | | | | | | |
| 3.8.A - Roadway/In 3.8.B- Structures C | | | | 4 | 8 | | 4 | | | | | 16 0 | \$1,766 \$0 |
| 3.8.C- Utility Costs | | | | | | | | | | | | 0 | \$0 |
| TOTAL 3 | 3.8 - Prepare Cost Estimates and Revise Milestone | 0 | 0 | 4 | 8 | | 4 | 0 | 0 | 0 | 0 | 16 | \$1,766.00 |
| | ement for Environmental Engineering Phase | | | | | | | | | | | | |
| 3.9.A - Meetings 3.9.B - General Ov | versight | | 8 10 | | | | | | | | | 8 10 | \$1,424 \$1,780 |
| 3.9.C - Project Set | Up | | 10 | | | | | | | | | 0 | \$0 |
| 3.9.D - Non Routin | e (Soft) Items TOTAL 3.9 - Project Management for | | | | | | | | | | | 0 | \$0 |
| | Environmental Engineering Phase | 0 | 18 | 0 | 0 | | 0 | 0 | 0 | 0 | 0 | 18 | \$3,204.00 |
| | | | | | 100 | | | | | | | | |
| | Total - 3 Environmental Engineering Phase | 0 | 18 | 63 | 168 | 0 | 182 | 154 | 50 | 4 | 4 | 643 | \$67,192.50 |
| | | | | | | | | | | | | | |
| 4 - Final Engin | neering and R/W Phase | | | | | | | | | | | | |
| 4.2 - Stage 3 Detaile | ed Design Plans | | | | | | | | | | | | |
| 4.2.A - Quantities a | and Notes | | | | | | | | | | | | |
| 4.2.A.A - Paveme | ent Subsummary | | | | | | | | | | | 0 | \$0 |
| 4.2.A.B - Drainag 4.2.A.C - Roadwa | je Subsummary av Subsummary | | | 4 | 12 | | 16 | | | | | 32 0 | \$3,236 \$0 |
| 4.2.A.E - Mainten | nance of Traffic Subsummary | | | | | | | | | | | 0 | \$0 |
| 4.2.A.F - Paveme 4.2.A.G - Signing | ent Marking Subsummary | | | | | | | | | | | 0 | \$0 \$0 |
| 4.2.A.H - Signal S | | | | | | | | | | | | 0 | \$0 \$0 |
| | ng Wall Subsummary | | | 4 | 0 | | | | | | | 0 | \$0 |
| 4.2.A.K - Lighting 4.2.A.L - Landsca | | | | 4 | 8 8 | | 4 4 | | | | | 16 | \$1,766 \$1,766 |
| 4.2.A.M - Genera | al Summary Sheet | | | 2 | 4 | | 2 | | | | | 8 | \$883 |
| 4.2.A.P - General 4.2.A.Q - Drivewa | I Notes ay Subsummary or Driveway Details (if included on | | | | | | | | | | | 0 | \$O |
| same sheet) | | | | 40 | 4 | | 0 | | | | | 0 | \$0 \$0 |
| 4.2.A.R - Lighting 4.2.A.S - Site/Civ | vil Subsummary | | | 16 4 | 4 12 | | 8 16 | | | | | 28 32 | \$3,348 \$3,236 |
| | al Plans & ITS Plans diagram & pole orientation | | | | | | | | | | | 0 | \$0 |
| 4.2.B.B - Timing | Chart | | | | | | | | | | | 0 | \$ 0 |
| 4.2.B.E - ITS (Tra 4.2.C - Signing Pla | affic Surveillance) | | | | | | | | | | | 0 | \$0 |
| 4.2.C.A – Signing | g Plans | | | | | | | | | | | 0 | \$0 |
| 4.2.C.B - Elevatic 4.2.C.C - SignCA | on View of Major Signs | | | | | | | | | | | 0 0 | \$0 \$0 |
| 4.2.D - Miscellaneo | DUS | | | | | | | | | | | | |
| 4.2.D B - Prepare 4.2.D C - Project 4.2.D.G - Title Sh | | | | | | | | | | | | 0 0 0 | \$0 \$0 \$0 |
| 4.2.E - Lighting Pla | ans | | 2 | 10 | 24 | | 26 | | | | | 74 | |
| 4.2.E.A - Lighting | TOTAL 4.2 - Stage 3 Detailed Design Plans | 0 | 2 | 12 46 | 24 72 | | 36 86 | 0 | 0 | 0 | 0 | 74 206 | \$7,730 \$21,965.00 |
| | | | | | | | | | | | | | |

Phase 2 - SR 241 (Massillon Rd.) and Corporate Woods Circle/Thorn Drive RAB C-R-S

Consultant: Agreement No. Modification No. PID No.

Environmental Design Group

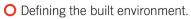
103172

| 10/23/2017 | - Revised |
|------------|-----------|
| | |

| Proposal Date 10/23/2017 - Revised | | | | | | | | | | | | |
|---|-----------|--------------|-------------|----------|--------------|---------|---------|------------------------|---|----------|-------------------|----------------------------------|
| • | Principal | Proj Manager | Sr Engineer | ENG/LA | Land Planner | CAD | Tech | Survey Proj Manager | Survey Crew | Clerical | т | otal |
| Task Description | \$231.00 | \$178.00 | \$139.00 | \$108.00 | \$93.00 | \$86.50 | \$77.25 | \$170.00 | \$170.00 | \$67.00 | Hours | Cost |
| 4.3 - Prepare Cost Estimates and Revise Milestone | | | | | | | | | | | | |
| 4.3.A - Roadway/Interchange Costs4.3.B- Right of Way4.3.D - Utility Costs | | | 2 | 4 | | 2 | | | | | 8 0 0 | \$883 \$0 \$0 |
| TOTAL 4.3 - Prepare Cost Estimates and Revise Milestone | 0 | 0 | 2 | 4 | | 2 | 0 | 0 | 0 | 0 | 8 | \$883.00 |
| 4.4 - Final Plan Package | | | | | | | | | | | | |
| 4.4.A - Submission of Final Tracings and Documentation | 0 | • | 2 | 8 | | 8 | 2 | 2 | | 2 | 18 | \$1,83 |
| 4.4 - Final Plan Package | 0 | 0 | 2 | 8 | | 8 | 0 | 0 | 0 | 0 | 18 | \$1,834.00 |
| 4.5 - Project Management for Final Engineering and Right of Way Phase | | | | | | | | | | | | |
| 4.5.A - Meetings 4.5.B - General Oversight 4.5.C - Project Set Up 4.5.D - Non Routine (Soft) Items | | 8 10 | | | | | | | | | 8 10 0 0 | \$1,424 \$1,780 \$0 \$0 |
| TOTAL 4.5 - Project Management for Final Engineering and Right of Way Phase | | 18 | 0 | 0 | | 0 | 0 | 0 | 0 | 0 | 18 | \$3,204.00 |
| 4.6 - Pre-Bid Activities | | | | | | | | | | | | |
| 4.6.A - Pre-Bid Questions TOTAL 4.6 - Pre-Bid Activities | 0 | 0 | 0 | 0 | | 0 | 0 | 0 | 0 | 0 | 0 | \$0.00 |
| | Ū | | Ū | Ū | | Ū | U U | Ū | , i i i i i i i i i i i i i i i i i i i | 0 | | Q 0.00 |
| TOTAL - Final Engineering Phase | 0 | 20 | 50 | 84 | 0 | 96 | 0 | 0 | 0 | 0 | 250 | \$27,886.00 |
| 5 - Construction Phase | | | | | | | | | | | | |
| 5.1 - On-going Services during Construction | | | | | | | | | | | | |
| 5.1.A - On-going Services During Construction TOTAL 5.1 - On-going Services during Construction | 0 | 0 | 0 | 0 | | 0 | 0 | 0 | 0 | 0 | 0 | \$0.00 |
| | - | - | | | 0 | | | | • | - | | |
| TOTAL - Construction Phase | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | \$0.00 |
| TOTAL AUTHORIZED PARTS REIMBURSABLES | 0 | 64 | 145 | 371 | 0 | 355 | 190 | 74 | 40 | 6 | 1245 | \$136,782 \$1,500 |
| GRAND TOTAL | 0 | 64 | 145 | 371 | 0 | 355 | 190 | 74 | 40 | 6 | 1245 | \$138,282.00 |
| IF AUTHORIZED TASKS: | | | | | | | | | | | | |
| Phase 1 Archaeological Survey Phase 1 Archaeological Survey and Report Prepare OHPO I Form (if necessary) | | 2 | | | 80 40 | 12 | | | | | 94 | \$8,834 \$3,720 |
| Phase 1 Archaeological Survey | 0 | 2 | | | 120 | 12 | | | | | 40 | φ3,720 |



Appendix D – Project Schedule



| Phase 2 Schedule | | | | | | | | | | |
|--------------------------------------|------------|-----------------|------|--|--|--|--|--|--|--|
| Milestone | Begin Date | Completion Date | Days | | | | | | | |
| Notice to proceed | 6/5/2018 | \geq | | | | | | | | |
| Environmental Document | 6/5/2018 | 8/2/2019 | 423 | | | | | | | |
| Stage 2 Design | 5/13/2019 | 9/20/2019 | 130 | | | | | | | |
| Preliminary Right of Way Design | 5/13/2019 | 6/28/2019 | 46 | | | | | | | |
| Utility Coordination Meeting | 5/30/2019 | 5/30/2019 | 1 | | | | | | | |
| Public Meeting | 6/13/2019 | 6/14/2019 | 2 | | | | | | | |
| Preliminary Right of Way Review | 7/1/2019 | 7/26/2019 | 25 | | | | | | | |
| Final Right of Way Design | 7/29/2019 | 9/20/2019 | 53 | | | | | | | |
| Environmental Document Review | 8/5/2019 | 10/4/2019 | 60 | | | | | | | |
| Stage 2 Review by City of Green/ODOT | 9/23/2019 | 11/8/2019 | 46 | | | | | | | |
| Final Right of Way Review | 9/23/2019 | 11/8/2019 | 46 | | | | | | | |
| Environmental Document Approval | 10/14/2019 | > | | | | | | | | |
| Right-of-Way Tracings | 11/11/2019 | 12/6/2019 | 25 | | | | | | | |
| Stage 3 Design | 11/11/2019 | 4/3/2020 | 144 | | | | | | | |
| Right-of-Way Acquisition | 12/9/2019 | 11/30/2020 | 357 | | | | | | | |
| Stage 3 Review by City of Green/ODOT | 4/6/2020 | 5/22/2020 | 46 | | | | | | | |
| Final Tracings/Bid Document | 5/25/2020 | 1/1/2021 | 221 | | | | | | | |
| Utilities Relocate | 1/7/2021 | 7/1/2021 | 175 | | | | | | | |
| Award Bid | 5/1/2021 | > | | | | | | | | |
| Construction | 7/1/2021 | 12/1/2022 | 518 | | | | | | | |