

AMENDMENT NO. 1 TO OWNER-ENGINEER AGREEMENT

1. Background Data:

- a. Effective Date of Owner-Engineer Agreement: July 14, 2022
- b. Owner: City of Gahanna
- c. Engineer: American Structurepoint, Inc.
- d. Project: Big Walnut Trail – Section 8

2. Nature of Amendment

- Additional Services to be performed by Engineer
- Modifications to Payment to Engineer

3. Description of Modifications

Attachment 1, “Modifications”
Engineer’s Fee Proposal Dated March 4, 2024

Owner and Engineer hereby agree to modify the above-referenced Agreement as set forth in this Amendment. All provisions of the Agreement not modified by this or previous Amendments remain in effect. The Effective Date of this Amendment is the date of the latest required signature below.

OWNER:

ENGINEER:

By: _____

By: _____

Title: _____

Title: _____

Date Signed: _____

Date Signed: _____

Modifications

1. Engineer shall perform the following Additional Services:

Paragraph 3 of the EJCDC-520, Short Form of Agreement Between Owner and Engineer for Professional Services is modified as follows:

Engineer's services under this Agreement are generally identified as follows: as outlined in Engineer's fee proposals dated March 24, 2022 **and March 4, 2024** ("Services").

2. For the Additional Services or the modifications to services set forth above, Owner shall pay Engineer the following additional or modified compensation:

Paragraph 2.02.A. is modified to read as follows:

2.02 Basis of Payment

A. Owner shall pay Engineer for Services as follows:

1. For Part 1 services, a Lump Sum amount of \$149,780 (\$85,120 – Task 1; \$34,270 – Task 2; \$7,030 – Task 3; \$9,940 – Task 5; \$13,420 – Task 6).
2. For Part 2 services, if authorized, a Lump Sum amount of \$138,530 (\$53,400 – Task 1; \$6,385 – Task 2; \$3,840 – Task 3; \$20,335 – Task 4; \$32,200 – Task 5; \$7,590 – Task 6; \$14,780 – Task 1.2).
3. Revised Fee Schedule attached with Part 1 and Part 2 tasks defined.
4. **For Services outlined in the Engineer's fee proposal dated March 4, 2024, a Lump Sum amount of \$72,670.**
5. The portion of the compensation amount billed monthly for Engineer's Services will be based upon Engineer's estimate of the percentage of the total Services actually completed during the billing period.



AMERICAN
STRUCTUREPOINT
INC.

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

March 4, 2024

Mr. Tom Komlanc, PE
Director of Engineering
City of Gahanna
200 S. Hamilton Road
Gahanna, Ohio 43230

Dear Mr. Komlanc:

Enclosed is a copy of our fee proposal for consulting services to revise the Traffic Analysis for Hamilton Road Interchange, develop crossing alternatives for Hamilton Road, and create a Right-of-Way exhibit and legal description for Shared Use Trail through Crescent at Central Park. The scope of services included in this proposal reflects our understanding of the project based on our meeting with the City of Gahanna. We propose to perform this contract work based on a lump-sum fee.

If you have any questions on the fee proposal, or if you need any additional information, please contact Tony Lenhart at (614) 901-2235.

Very truly yours,
American Structurepoint, Inc.

Walid E Gemayel, PE
Sr. Vice President/Partner

WEG:mmm

Enclosures

Big Walnut Trail – Section 8

Proposal for Professional Engineering Services

City of Gahanna

200 S. Hamilton Road, Gahanna, Ohio 43230

March 4, 2024



AMERICAN
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Scope of Services

In the development of the Big Walnut Bike Trail, the crossing location of the trail and Hamilton Road has come into question. We are looking to determine several alternatives for crossing Hamilton Road including an at-grade crossing and a tunnel underneath Hamilton Road. We will develop an exhibit, along with cost estimate for each alternative.

Additionally, we will develop a revised traffic study, using current traffic data collected as part of this scope of services. Additional intersections will be added to the project footprint including the intersection of Morrison & Hamilton and Tech Center & Hamilton. Certified traffic calculations for the Hamilton and I-270 interchange to be developed to reconfigure southern interchange intersection to support realignment of Hamilton Road southbound to I-270 southbound ramp.

Additionally, right-of-way exhibits and legal descriptions developed for shared use path easements through the Crescent at Central Park.

Below is our scope of services for this project.

1. Bike Trail Alternatives

- A. Develop three (3) crossing alternatives for Hamilton Road at I-270:
 - 1. Tunnel under Hamilton
 - 2. Straight crossing across Hamilton
 - 3. 3-movement crossing across Hamilton
- B. Create and refine exhibits for each alternative
- C. Develop cost estimates for each alternative

2. Right-of-Way Easement

American Structurepoint will perform a boundary survey in accordance with OAC 4733-37 and applicable local and county standards.

- A. Establish horizontal (Ohio /South, NAD 1983) survey control
- B. Property research for deeds, plats, and surveys
- C. Search for and tie-in property corners and other evidence of boundary lines
- D. Property line determination based on record documents and evidence located in the field
- E. Prepare two (2) legal descriptions and exhibits for path easements
- F. Set iron pins (Franklin County considers path easements to be standard highway easements and requires them to be monumented as such)
- G. Professional surveyor review and certification

3. Traffic Analysis

- A. Turning movement counts will be collected during a typical weekday (Tuesday, Wednesday, or Thursday) and will be from 6:00 AM to 6:00 PM at the following locations:
 - 1. Hamilton Road & Morrison Road
 - 2. Hamilton Road & I-270 Northbound Ramp
 - 3. Hamilton Road & I-270 Southbound Ramp
 - 4. Hamilton Road & Tech Center Drive
- B. 24-Hour ADT mechanical counts will be collected during a typical weekday (Tuesday, Wednesday, or Thursday) at the following locations:
 - 1. Hamilton Road NB to I-270 NB ramp (free-flow)
 - 2. Hamilton Road SB to I-270 NB ramp (free-flow)
 - 3. Hamilton Road NB to I-270 SB ramp (free-flow)
 - 4. Hamilton Road SB to I-270 SB ramp (free-flow)
- C. Certified Traffic Calculations for the Opening Year (2026) and the Design Year (2046) will be developed based upon the procedures and tools provided by ODOT's Modeling & Forecasting section. The following items will be included in the Certified Traffic:
 - 1. Traffic Projections based on MORPC generated growth rates from the collection year (2024) to the Opening Year (2026) and Design Year (2046).
 - 2. Intersection Balancing between the four (4) study intersections for the following scenarios:
 - i. 24-Hour Traffic Volumes
 - ii. AM Peak Hour Traffic Volumes
 - iii. PM Peak Hour Traffic Volumes
 - 3. Preparation of Traffic Volume Plates that show the Average Daily Traffic (ADT) and AM and PM peak hour traffic volumes for the study intersections. The traffic volume plates will be prepared per ODOT standards.
- D. Capacity Analysis will be performed with the Certified Traffic Volumes at the four (4) study intersections listed under Item 1 using Highway Capacity Software (HCS2022) for the AM and PM peak hours for the following scenarios:
 - 1. Existing Year (2024)
 - 2. Opening Year (2026)
 - 3. Design Year (2046)

The following design alternatives will be analyzed for each period:

- a. Alternative 1 – Bike Trail (Over or Under) both sides of interchange. Ramps operate under existing conditions.
- b. Alternative 2 – Bike Trail crosses loop ramps on both sides of interchange with pedestrian signal (ramp signal, HAWK/RRFB). Pedestrian crossing added to SB I-270 exit ramp intersection.
- c. Alternative 3 – Loop ramps on both sides of interchange realigned to existing signalized ramp terminal intersections, to eliminate free-flow condition. Pedestrian crossings added to each signalized intersection.



- d. Alternative 4 – Bike Trail (Under) loop ramp for NB I-270 entrance ramp. Loop ramp on south side of interchange realigned to existing SB I-270 exit ramp intersection to eliminate free-flow condition, and pedestrian crossing added to signalized intersection.
- E. Prepare queue analysis to compare available existing turn lane storage lengths to 95th percentile turn lane lengths calculated by the capacity analysis for the realigned ramp intersections for Alternatives 3 and 4 for the Design Year (2046).
- F. Perform turn lane length calculations based on ODOT’s Location & Design Manual Volume 1 to determine required storage lengths for realigned ramp intersections for Alternatives 3 and 4 for the Design Year (2046).
- G. A traffic analysis report will be prepared that summarizes the analysis methodologies, results, and the recommended roadway improvements. The report will include figures which illustrate the traffic volumes and intersection recommendations.

Appendix A – Proposal Cost Breakdown

Fee Proposal
Big Walnut Trail - Section 8
 March 4, 2024

		Project Manager	Senior Engineer	Project Engineer	Staff Engineer	Registered Land Surveyor	Two-Man Survey Crew	Total Hours	Subconsultant	Non-Labor Direct Costs	Total Cost
		\$280.00	\$240.00	\$175.00	\$139.00	\$180.00	\$200.00				
Task 1 - Bike Trail Alternatives											
1.1	Alternative Development	2	4	10				16			\$3,300
1.2	Exhibit Creation and Refinement			4	16			20			\$3,000
1.3	Quantity Estimation			4	4			8			\$1,300
								0			
	Subtotal Task 1	2	4	18	20	0	0	44	\$0	\$0	\$7,500
Task 2 - Right of Way Easement											
2.1	Field Work						16	16		\$30	\$3,230
2.2	Property Research				6	2		8			\$1,200
2.3	Prepare Legal Descriptions and Exhibits				12	2		14			\$2,030
2.4	Set Iron Pins						4	4		\$30	\$830
2.5	Professional Surveyor Review and Certification					4		4			\$720
	Subtotal Task 2	0	0	0	18	4	16	38	\$0	\$30	\$8,010
Task 3 - Traffic Analysis											
3.1	Attend 2 Meetings	4		4				8			\$1,820
3.2	Review Existing Traffic Studies	2		2				4			\$910
3.3	Traffic Count Processing		2		4			6	\$6,340		\$7,380
3.4	Certified Traffic Volumes	2	8		16			26			\$4,710
3.5	Capacity Analysis (4 Intersections)	4	16	40	60			120			\$20,300
3.6	Turn Lane Storage Length Calculations (4 Intersections)	2	12		18			32			\$5,950
3.7	Traffic Impact Study Draft Report	2	12	16	24			54			\$9,580
3.8	Traffic Impact Study Final Report	2	12	8	12			34			\$6,510
	Subtotal Task 3	6	2	6	4	0	0	284	\$6,340	\$0	\$57,160
BASE CONTRACT		8	6	24	42	4	16	366	\$6,340	\$30	\$72,670

Appendix B – Project Area Limits

Project Limits



Appendix C – Schedule

Schedule

Milestone	Date	
	Begin	End
Notice to Proceed	3/18/2024	
Collect Traffic Data	3/18/2024	4/1/2024
Field Data collection for Right of Way	3/18/2024	4/1/2024
Develop Draft Traffic Report	4/1/2024	5/17/2024
Develop Exhibits for Hamiton Road Crossing	4/1/2024	5/3/2024
Gahanna Review Crossing Exhibits	5/6/2024	5/20/2024
Gahanna Review Traffic Analysis	5/20/2024	6/3/2024
Right of Way Exhibit Preparation	5/20/2024	6/3/2024
Develop Final Traffic Analysis Report	6/3/2024	6/21/2024