



WORK ORDER AUTHORIZATION AMENDMENT

PROJECT NAME Kazimour Drive Flooding Improvements
PROJECT LOCATION Port Barrington, Illinois
CLIENT Lake County Stormwater Management Commission
PROJECT NO. MH201.021002.XX
ORIGINAL CONTRACT DATE July 16, 2024
AMENDMENT DATE April 16, 2026

The Client acknowledges that an authorized representative has read the terms of this Amendment and that the Client agrees to be bound by the provisions of the Professional Services Agreement dated July 16, 2024 (“Agreement”), except as amended herein.

EXHIBIT A

SCOPE OF WORK FOR KAZIMOUR DRIVE FLOODING IMPROVEMENTS

Based upon our understanding of project requirements and discussions with you we have developed the following scope of services:

SURVEYING DUE DILIGENCE/PRELIMINARY PHASE

1. TASK T: ON-SITE TOPOGRAPHY

On-Site Topographic Survey of the ±3.5-acre property and adjacent land within 25 feet of the property. This map would include: a 50’ x 50’ grid and sufficient spot elevations to generate contours at one-foot intervals; locations of trees 6” and larger; locations of existing buildings; and locations and elevations of manholes, inverts and visible above-ground utility structures as required for civil engineering design purposes.

This work does not include preparation of a Boundary Survey. Boundary lines would be shown based Boundary Survey detailed below.

If Client desires to have Manhard locate those utilities as marked by 811 utility locate or a third-party utility company (i.e., gas, telephone, electricity, street lighting, cable television, etc.), it is imperative that Client has the 811 utility locate or third-party utility company locate completed prior to Manhard beginning topography. If the locate is not completed, this work would then be completed as an additional service.

2. TASK ULS: UTILITY LOCATING SERVICE

Obtain and coordinate a third-party utility locator to mark the existing buried utilities prior to Manhard starting the field survey work associated with the Topographic Map/Survey. The third-party utility locate would be completed for the same area included in the on-site and off-site Topographic Map/Survey detailed above.

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Due to the uncertainty and limitations inherent to locating underground utilities for non-construction purposes, there may be buried utilities within the survey area that are not detected. The Topographic Map/Survey will show visible indications of utilities based on the third-party utility marks. However, unmarked utilities will not be shown and Manhard shall assume no responsibility or liability for additional buried utilities that may exist within the survey area, that are not shown on the Topographic Map/Survey.

3. ~~TASK TC: TRAFFIC CONTROL SERVICES – IF REQUIRED~~

~~Obtain and coordinate a traffic control contractor to provide traffic control services for obtaining utility inverts within the street name roadway included or adjacent to the Topographic Map/Survey detailed above. This work would include the coordination with the governing agency for permits; however, any required permit fees or other additional fees associated with the permit would not be included and would be considered an additional service.~~

4. TASK WLS: WETLAND LOCATION MAP

Wetland Location map of the wetland limits as delineated in the field by the Wetland Consultant. This fee assumes that the wetland flags would be set, and Manhard is provided an exhibit with flag numbers prior to topography field work.

5. TASK SB: BOUNDARY SURVEY

Field measurement and analysis of the property boundary for use in developing the items detailed herein. This survey will be completed in accordance with the Minimum Standards of Practice as indicated by the Illinois Professional Land Surveyors Act of 1989 (225 ILCS330, Part 1270, Section 1270.56 as amended). This work does not include the preparation of a separate Plat of Survey, or the review of title and other legal documents and does not include providing locations of any existing improvements on or adjacent to the Project as would be provided in an ALTA Survey.

For an additional fee, Manhard can provide an ALTA/NSPS Land Title Survey to identify easements, restrictions or other encumbrances that may be present on the property. If the Client decides not to have an ALTA Survey completed, Manhard cannot be responsible for any problems arising from the presence of unidentified easements, restrictions or other encumbrances on the property.

ENGINEERING DUE DILIGENCE/PRELIMINARY PHASE

6. TASK I: DUE DILIGENCE/SITE INVESTIGATION

- a) Consult with Client to understand Client's requirements for the Project and review available documents and data.
- b) Prepare application and submit for an State Historic Preservation Agency Project Review.
- c) Prepare application for State Department of Natural Resources Endangered Species Consultation Program Agency Action Report.
- d) Prepare and submit a Freedom of Information Act (FOIA) request to obtain previously approved plans for the site and environs. FOIA documents will be requested from the Village of Port Barrington, Lake County, Lake County and Illinois DOT.
- e) Identify the requirements of governmental authorities having jurisdiction over the Project.
- f) Investigate highway access availability and right-of-way dedication requirements.
- g) Review the municipal subdivision codes relating to public improvements.
- h) Contact the Client and governmental officials to discuss availability, capacity, and design requirements for proposed improvements.

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7. TASK P: PRELIMINARY ENGINEERING

Utilizing the findings from the site investigation phase and topographic survey, prepare a preliminary plan set showing the horizontal and vertical layout of the proposed roadway improvements. These plans/exhibits shall include:

- a) Preliminary Demolition Plan.
- b) Preliminary Paving Plan.
- c) Preliminary Plan and Profile.
- d) Preliminary Cross-Sections (for use in Preliminary Stormwater phase for cut-fill calculations).

Furnish a letter report detailing the findings of the Engineer and review them with the Client

8. TASK PSW: PRELIMINARY STORMWATER MANAGEMENT

Perform preliminary stormwater analysis of the proposed improvements, including:

- a) Quantify the amount of fill within the floodplain that will be a result of the proposed work.
- b) Size the proposed structure(s) under the roadway by optimizing the size of the structure vs. the amount of fill being placed in the floodplain.
- c) Develop a compensatory storage plan that replaces lost storage as a result of the roadway improvements in both the 0-10 year lens and the 10-100 year lens at the appropriate replacement ratio per the Lake County Stormwater Ordinance.
- d) Determine the amount of additional impervious area within the roadway corridor and design detention and volume control measures as needed.
- e) Prepare a submittal to Lake County SMC, including the above mentioned design and necessary calculations, and preparation of an overall memo narrative.
- f) Coordination with Lake County SMC for preliminary approval.

MEETINGS, COORDINATION, AND REIMBURSABLES PHASE

9. TASK C: CONSULTANT COORDINATION

Ongoing coordination with geotechnical, environmental (CCDD), and wetland subconsultants included but not limited to:

- a) Solicit proposals and setup/manage contracts.
- b) Coordinate scheduling and site access.
- c) Review subconsultant reports, analyze recommendations and relay findings to Client.
- d) Provide support to the consultants by providing necessary exhibits or calculations the consultant requests in order to proceed with due diligence, design, or permitting efforts.

10. TASK SUB1: GEOTECHNICAL INVESTIGATION (BY OTHERS)

See attached proposal from Testing Service Corporation. Atwell will pass through subconsultant costs with 0% markup as per existing SMC-Manhard contract.

11. TASK SUB2: ENVIRONMENTAL INVESTIGATION (BY OTHERS)

See attached proposal from Testing Service Corporation. Atwell will pass through subconsultant costs with 0% markup as per existing SMC-Manhard contract.

12. TASK SUB3: WETLAND CONSULTANT SERVICES (BY OTHERS)

See attached proposal from JH Wetco. Atwell will pass through subconsultant costs with 0% markup as per existing SMC-Manhard contract.

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13. TASK MT: MEETINGS

Attendance at meetings with the Client, permitting agencies, and/or other project stakeholders. This phases budgets for the following:

- a) Ongoing Client calls and project status touchpoints.
- b) Preliminary meeting(s) with municipalities and landowners.
- c) Site visits with project stakeholders.
- d) Coordination calls/meetings with neighbors regarding improvements, easements, etc.

14. TASK REIM: REIMBURSEABLES

All project related reimbursable expenses, including vehicle mileage, lodging, travel, travel time, computer time, outside data reports, postage, shipping, and reproductions as per Exhibit C. Permit fees shall be discussed with the Client as they arise.

PROPOSED PROJECT SCHEDULE

Atwell will initiate the work outlined in this proposal immediately upon receiving written authorization to proceed.

CLARIFICATIONS

PROJECT UNDERSTANDINGS & ASSUMPTIONS:

In preparing the proposal, we have assumed the following:

- The proposed project includes elevation of the existing roadway through a regulatory floodplain. It is understood that in order to maintain flood storage, a series of culverts or a bridge under the road will be required to allow flood waters to access the flood storage area north of the road. Further, a portion of this roadway may be widened in order to maintain a consistent drive aisle throughout the stretch of the project.
- The amount of structural engineering effort needed for reconstruction of the roadway is unknown at this time. After geotechnical engineering findings determine the parameters for structural engineering design, Atwell will engage a structural engineer or bridge manufacturer for their input and design during the design phase of the project.
- If additional subconsultants will be necessary for this project (traffic, natural resources, et al.), they will be engaged during the design phase of the project.
- It is assumed that County or State DOT permitting will not be necessary for these proposed roadway improvements. If highway geometrics or DOT permitting is deemed necessary, it will be addressed as additional services during the design phase of the project.
- No submittal to the IDNR-OWR will be required, as the work is outside of the regulatory floodway. No hydraulic modeling will be required for this project.

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INFORMATION TO BE PROVIDED BY THE CLIENT:

In preparing the proposal, it is understood the following be provided by the Client:

- Lake County SMC historical permitting information.
- Neighbor and municipality contacts, as available.
- Historic plats of subdivision, HOA documents, parcel maps, easement information, etc.

ADDITIONAL SERVICES

We have the capability to provide services outside of the agreed upon Scope of Services. Below is a list of services likely necessary if the project moves to the final design and permitting phase. There may be required additional services discovered as the investigative phase proceeds. Atwell can prepare a proposal for additional services at the written request of the Client.

- RIGHT-OF-WAY DEDICATION / CONVEYANCE
- FINAL ENGINEERING PLANS
- FINAL ENGINEERING EXHIBITS
- FINAL STORMWATER MANAGEMENT
- PERMITTING ASSISTANCE
- EARTHWORK ANALYSIS
- FINAL ENGINEER'S OPINION OF PROBABLE COST
- STORMWATER POLLUTION PREVENTION PLAN PHASE
- BIDDING ASSISTANCE
- CONSTRUCTION ASSISTANCE

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EXHIBIT B

Scope & Fee Proposal Work Authorization – Services

#	Task	Task Description	Original Fee	Type
1	T	On-Site Topography	\$16,000	TME - NTE
2	ULS	Utility Locate Service	\$5,000	TME - NTE
3	TC	Traffic Control Services (If required)	\$5,000	TME - NTE
4	WLS	Wetland Location Map	\$3,500	TME - NTE
5	SB	Boundary Survey	\$6,500	TME - NTE
6	I	Due Diligence/Site Investigation	\$10,000	TME - NTE
7	P	Preliminary Engineering	\$20,000	TME - NTE
8	PSW	Preliminary Stormwater Management	\$15,000	TME - NTE
9	C	Consultant Coordination	\$12,000	TME - NTE
10	SUB1	Geotechnical Consultant Allowance	\$6,500	TME - NTE
11	SUB2	Environmental Consultant Allowance	\$4,500	TME - NTE
12	SUB3	Wetland Consultant Allowance	\$8,500	TME - NTE
13	MT	Meetings	\$4,000	TME - NTE
14	REIM	Reimbursables	\$8,000	TME - NTE
		Total:	\$124,500	

FF = Fixed Fee

\$119,500.00

TME = Time & Materials

TME - NTE = Time & Materials Not to Exceed

FF&D = Fixed Fee + Direct Expense Reimbursables

Upon receipt of this signed proposal and work authorization, Atwell will commit the staff and resources necessary to begin work on the project.

Invoices will be submitted monthly for work completed and payment is expected within thirty (30) days of the date of the invoice. In the event of non-payment, services may be suspended.

All fees and hourly rates quoted within this contract may increase annually after the beginning of each year. The original Atwell Agreement is enforceable for all subsequent work orders. The client shall pay all fees and permit charges

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