

March 23, 2023

Mr. Paul G. Shumejko, P.E.
Transportation Engineering Manager
City of Rochester Hills
1000 Rochester Hills Drive
Rochester Hills, MI 48309

Re: **2023 Asphalt Road Rehabilitation Program**
Part A: South Brooklands Subdivision Resurfacing
Part B: Adams Road (East Side) Pathway Rehabilitation (Tienken to Dutton)
Part C: Cross Creek Boulevard Speed Humps
Professional Services for Survey Staking
City File No.: E23-002
Job No.: PR23-146

Dear Mr. Shumejko:

Spalding DeDecker is pleased to have this opportunity to provide survey staking to the City of Rochester Hills for the above mentioned project. Below is our understood scope of services for the Asphalt Road Rehabilitation Program based upon review of the bid book and plans provided by your office. We look forward to working with you and your staff soon.

SCOPE OF SERVICES

All survey services will be directly managed by Mr. Mike DeDecker, and construction administration, inspection, and engineering services will be directly managed by Mr. Ted Meadows and Grady Rollins.

SURVEYING - SURVEY LAYOUT/ CONSTRUCTION STAKING

Our work will be generally as-needed, and will vary from site to site. We have reviewed the RFP, bid sheet, and site maps you sent. We understand that the scope of services will include construction layout for segments of road being reconstructed shown in the maps provided. This will include the following:

- Set at least one pair of benchmarks at each site using GPS-derived NAVD'88 elevations. The datum will be established using GPS measurements, but we will perform the actual grading by more precise methods such as using a total-station or optical level.
- Set offset stakes at 5' from the edge of asphalt or back of curb. Offset stakes will be graded to the existing curb or back of pavement in 50' intervals along straight segments or larger radius segments, and 25' intervals along small radius curved segments such as a cul-de-sacs. This will be done prior to demolition of the curbs so we can obtain the hub grade and existing curb grade at the same time. Staking for both sides of the roadway will be performed at the same time, although the construction will actually be part-width removal and replacement.
- We will record the location of offset stakes in case they need to be re-staked and used to compute new slope percentages if needed. We will produce a point plot showing the location of the stakes, which will typically be created as an overlay of the aerial image in Google Earth in order to show the relative location of the stakes.

- We will provide cut sheets for all stakes with the hub grade, existing curb grade, and a cut or fill from the hub to the curb.
- Some survey support may be requested for ADA ramps, although this will generally be the responsibility of the contractor.
- On an as-needed basis, we can perform pre- and/or post-construction aerial flights using an Unmanned Aerial System (UAS) to obtain low-altitude, high-resolution imagery in order to document the construction activities.

Performing as-built measurements and preparing record drawings is not included in the current scope of services. If budget remains, we can discuss with your staff if they would like us to measure any final as-built measurements for the roadway.

SCHEDULE

We are prepared to begin all services described herein immediately upon authorization, but understand the work will be scheduled based on the contractor's schedule.

FEE

Our proposed not-to-exceed fee to perform the services described herein are as follows:

- Survey Staking: _____ \$83,550.00
Total: \$83,550.00

This fee shall not be exceeded without prior written approval from your office. Invoices will be submitted monthly based on actual hours incurred in accordance with our approved rate schedule.

If the above terms are acceptable, please provide us with written authorization to proceed. We understand that this would likely be provided after the funding has been approved by City Council. Thank you for considering us for this work, and please don't hesitate to contact me with any questions.

Mr. Paul G. Shumejko, P.E.
March 25, 2022
Page Four

SPALDING DEDECKER ASSOCIATES, INC.

Witnesses:

- 1)  _____
- 2)  _____

By:  _____
Ted Meadows
Spalding DeDecker Associates, Inc.
905 South Boulevard East
Rochester Hills, Michigan 48307
Tax I.D. # 38-1598901
Telephone: 248-844-5400

CITY OF ROCHESTER HILLS

WITNESSES:

- 1) _____
- 2) _____

Recommended :

By: _____
Bill Fritz, PE

Approved:

By: _____
Honorable Mayor Bryan K. Barnett

cc: Bill Fritz, PE, Public Services Director
Paul Davis, PE, City Engineer