

March 1, 2017

Mr. Keith Depp  
Staff Engineer - DPS/Engineering Division  
City of Rochester Hills  
1000 Rochester Hills Drive  
Rochester Hills, MI 48309

Re: 2017 Concrete Replacement Program  
Surveying Layout and Limited Construction Observation  
Job No.: PR17-059

Dear Mr. Depp:

Spalding DeDecker is pleased to once again have this opportunity to provide professional surveying services to the City of Rochester Hills. We look forward to working with you.

#### **SCOPE OF SERVICES**

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 back of curb 5' offset stakes graded to the existing curb 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 provide a station/offset report for the stakes set based on an approximate centerline baseline computed in the office based on the recorded position of the stakes.

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- 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.
- We understand that the contractor will notify within 48 hours what streets need staking as they progress.
- 40-hours of possible inspection if needed to supplement your staff on the project. This will not include full Construction Engineering.

#### **FEE**

We will perform this work on a time and materials basis according to our agreed-upon rates for the City of Rochester Hills using a not-to-exceed cap for the scope of services described. Our detailed fee estimate is attached for reference, and our anticipated fee for the staking falls in the range of 1.5% to 2% of the construction. We would recommend setting a not-to-exceed limit for the staking at 2.0% of the construction cost to allow a contingency for minimal re-staking and other items that might crop up. Therefore, our proposed fees are:

Construction Staking:	\$48,388 T&M Not-to-exceed (based on 2% const. cost)
Inspection Allowance:	\$3,400 T&M Not-to-exceed (based on 40-hours)

Invoices will be submitted on a monthly basis.

#### **SCHEDULE**

We are prepared to begin field work immediately upon authorization, but understand that the work will be scheduled street by street based on the contractor's schedule with a construction completion date of September 5, 2017.



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Engineering & Surveying Excellence since 1954

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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

Sincerely,  
**SPALDING DEDECKER ASSOCIATES, INC.**

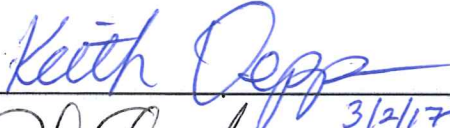
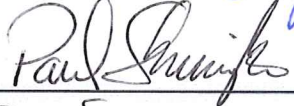
Witnesses:

- 1)   
CHERYL GREGORY
- 2)   
Clark French

By:   
Michael DeDecker, PS, Vice President  
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)   
3/2/17
- 2)   
PAUL SHUMETSKO 3-2-17

Recommended:

By: \_\_\_\_\_  
Allan E. Schneck, PE

Approved:

By: \_\_\_\_\_  
Honorable Mayor Bryan K. Barnett

Attachments:

cc: Paul Davis, PE, City Engineer  
Phil Rasor, PE  
George M. Platz, PS

# 2017 Concrete Replacement Program

## Survey Construction Layout

Loc ID #	Street	Linear Feet	Director	Senior Project Manager	Senior Project Surveyor	Project Surveyor	Mapping Specialist	CAD Technician III	One-person Crew	Two-person Crew	Survey Crew Chief	Survey Assistant	Cost	Cost/LF	Construction Cost Using Foot and Linear	% Cost/Cons. Cost
10			0.5	1			3						\$ 2,030	\$ 4.78	\$ 91,546	2.2%
14			0.5	1			3						\$ 2,030	\$ 5.20	\$ 84,007	2.4%
95			0.5	1			3						\$ 1,730	\$ 6.65	\$ 56,005	3.1%
96			0.5	1			3						\$ 1,730	\$ 8.87	\$ 42,004	4.1%
1410			1	2			4						\$ 3,921	\$ 2.78	\$ 303,718	1.3%
340			0.5	1			3						\$ 2,030	\$ 5.97	\$ 73,237	2.8%
295			0.5	1			3						\$ 1,730	\$ 5.86	\$ 63,544	2.7%
445			0.5	1			3						\$ 1,730	\$ 3.89	\$ 95,854	1.8%
480			0.5	1			3						\$ 1,730	\$ 3.60	\$ 103,393	1.7%
575			0.5	1			3						\$ 1,730	\$ 3.01	\$ 123,856	1.4%
550			0.5	1			3						\$ 1,730	\$ 3.14	\$ 118,471	1.5%
980			1	2			3						\$ 3,748	\$ 3.82	\$ 211,095	1.8%
585			0.5	1			3						\$ 2,030	\$ 3.47	\$ 126,011	1.6%
270			0.5	1			3						\$ 1,730	\$ 6.41	\$ 58,159	3.0%
675			0.5	1			3						\$ 2,030	\$ 3.01	\$ 145,397	1.4%
600			0.5	1			3						\$ 2,030	\$ 3.38	\$ 129,242	1.6%
300			0.5	1			3						\$ 1,730	\$ 5.77	\$ 64,621	2.7%
842			1	2			3						\$ 2,248	\$ 2.67	\$ 181,369	1.2%
1080			1	2			3						\$ 3,148	\$ 2.91	\$ 232,635	1.4%
535			0.5	1			3						\$ 1,730	\$ 3.23	\$ 115,240	1.5%
<b>Total</b>		<b>11232</b>	<b>12.0</b>	<b>24</b>			<b>61</b>			<b>206</b>	<b>11</b>		<b>\$ 42,535</b>		<b>\$ 2,419,402</b>	<b>1.76%</b>

2% of \$2419402 Bid= \$48,388

### Inspector Allowance

Inspector	
Lead	
44	
\$85	Cost
40	
	<b>\$3,400</b>