



City of Wheaton  
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City of Wheaton, Illinois

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**TO:** Don Rose City Manager  
**FROM:** Joan M. Schouten, MBA CPIM CPPB Procurement Officer  
**DATE:** February 9, 2016  
**RE:** Recommendation to Award

## FLOOD PRONE AREA STUDIES – 2016 PROJECT 1

*Wakeman and Cadillac Upland Depressional Area; Thomas Overland Flow Path;  
Turf, Countryside, and Ranch Area*

**Solicitation Process: Request for Proposal to qualified service providers (via Engineering)**

**Recommended Dealer: E.R.A.**

**Fund: General Fund Account#: 18590000-64110 Account Description: Engineering Services Fiscal Year: 15-16**

**Budget: \$300,000**

**Request for Purchase: \$ 73,358 (not to exceed)**

**Budget Impact: (\$226.642)**

**Background:** The city's decision to purchase these Engineering Services is based on the following:

- Wheaton City Council Strategic Goal #3 Efficient and Effective Services; item D reads "Receive report and prepare summary/recommendation for City Council."
- The purpose of these services is to develop stormwater studies for the following areas:
  - Wakeman and Cadillac Upland Depressional Area
  - Thomas Overland Flow Path
  - Turf, Countryside, and Ranch Floodprone Area
- These studies specifically include:
  - topographical survey
  - the creation of a hydrologic/ hydraulic model of the entire area
  - 1, 5, 10, 25, 50, 100, and 500 year critical storm review
  - Identification of structures that will be affected
  - Improvement alternatives to reduce/eliminate flooding of said structures
- The study of these three particular areas are the beginning of multiple studies targeting other areas.
- A RFP was provided to seven (7) qualified engineering firms.
  - The RFP requested proposers to provide: Statement of Experience, Staff Resumes, Compensation Proposals; and Schedule for work;
- The attached analysis shows:
  - 6 proposers
  - Proposals for all services ranged from: \$248,364 - \$73,358 = \$175,006 or 238%
- The firm offering the best value is E.R.A. Their proposal of (not to exceed) \$73,358 includes an inspection of all 170 possible homes. It is not anticipated that all 170 homes will need inspection, thus the actual cost is expected to be much less.

**Attachments:** Analysis

**FLOOD PRONE AREA STUDIES - 2016 PACKAGE 1**

	<i>E.R.A.</i>	<i>WMA</i>	<i>STRAND</i>	<i>V3</i>	<i>CBBEL</i>	<i>BLA</i>
<b>Cost</b>	\$42,299.10+182.70/Home (50 Homes=\$51,434) (170 Homes= <b>73,358</b> )	\$80,000	\$85,600 (30 Homes)	\$89,071	\$225,706	\$248,363
<b>Time</b>	March→ June	Feb→May	Feb→ Sep			
<b>Anticipate Man Hours</b>	406 + 2 hrs/home survey (506-746 Hours)	520	710			
<b>Model Software</b>	XPSWMM 2D	XPSWMM	XPSWMM 2D			
Three Models or One Model	1	1	1			
1-500yr Critical Storm Modeled	Y	Y	Y			
Alternative Analysis	Y	Y	Y			
Cross Sections Of Thomas OFP	Y	Y	LIDAR			
Survey TCR	Y	Y	LIDAR			
Lowest Opening	Y	Y	Y			
Top of Foundation	Y	Y	Y			
Adjoining Grade to Structure	Y	Y	Y			
Only Principal Structures	Y	Y	Y			
Survey Additional Areas	Y	Y	Y			
Lowest Measured Entry Point	Y	Y	Y			
Total Area Lowest Floor	Y	Y	Y			
T.A. Finished Space Lower Level	Y	Y	Y			
Split Home, Lower then Front Door	Y	Y	Y			
# People in Home	Y	Y	City Schedule Appt			
# Working in Home	Y	Y	City Schedule Appt			
Diagram of Horz Measurements, Vertical Measurements, to low floor from low point of entry,& location of Measurement	Y	Y	City Schedule Appt Estimate 30 homes			
Tributary Areas confirm w/ Dupage County 2' Cont.	Y	Y	Y			
SCS Number Calculation & Exhibit	Y	Y	Y			
Hydraulic Length/ Time of Conc. Calc and Exhibit	Y	Y	Y			
Critical Duration Analysis Using Bulletin 71	Y	Y	Y			
High Water levels of 1,5,10,25,50, 100, 500	Y	Y	Y			
Buyout all structures at 500 Yr Critical Storm Level	Y	Y	Y			
Define HWL	Y	Y	Y			
2-5 Additional Alternatives	Y	Y	Y			
Flow Diagram	Y	Y	Y			
Color Banded Inuandation Map	Y	Y	Y			
Survey Exhibit	Y	Y	Y			
Electronic survey data	Y	Y	Y			
H&H study Electronic	Y	Y	Y			
Exhibit of at risk structures and what storm freq they are at risk at	Y	Y	Y			