



City of Wheaton, Illinois

City of Wheaton
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www.wheaton.il.us

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

	E.R.A.	WMA	STRAND	V3	CBEL	BLA
Cost	\$42,299.10+182.70/Home (50 Homes = \$51,434) (170 Homes= 73,358)	\$80,000	\$85,600 (30 Homes)	\$89,071	\$225,706	\$248,363
Time	March → June	Feb → May	Feb → Sep			
Anticipate Man Hours	406 + 2 hrs/home survey (506-746 Hours)	520	710			
Model Software	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 Inundation 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			