

**RESOLUTION  
ROCK COUNTY BOARD OF SUPERVISORS**

Jason R. Houle, County Surveyor  
INITIATED BY

Finance Committee  
SUBMITTED BY



Jason R. Houle, County Surveyor  
DRAFTED BY

March 21, 2013  
DATE DRAFTED

**AUTHORIZING THE PURCHASE OF SURVEYING EQUIPMENT**

- 1 **WHEREAS**, the industry standard for completing fieldwork is primarily by way of utilizing Global
- 2 Navigation Survey Systems, (GNSS), and/or robotic surveying methods; and,
- 3
- 4 **WHEREAS**, modern Computer Aided Drafting, (CAD), programs manipulate survey data allowing for
- 5 seamless data transfer between CAD and Geographic Information Systems, (GIS), programs; and,
- 6
- 7 **WHEREAS**, the County GIS program is critical to other County departments and dependent upon
- 8 coordinate data provided by the Surveyors office; and,
- 9
- 10 **WHEREAS**, the County Surveyor desires to respond to work requests as timely as possible and perform
- 11 work in the most efficient manner possible; and,
- 12
- 13 **WHEREAS**, the County Surveyor desires to manage budgets and tax dollars in the most responsible and
- 14 efficient manner as possible; and,
- 15
- 16 **WHEREAS**, the Surveyor's office 2013 budget accounts for two full-time staff members; and,
- 17
- 18 **WHEREAS**, staff efficiencies gained by way of modern technologies permit a reduction in the number of
- 19 hours required of staff personnel; and,
- 20
- 21 **WHEREAS**, utilizing College interns is a means to acquire additional staff resources needed for operations;
- 22 and,
- 23
- 24 **WHEREAS**, Turning Point Systems Group of Milwaukee Wisconsin currently has a State contract with the
- 25 Department of Agriculture, Trade & Consumer Protection, (AG-2013-02), for a GNSS system; and,
- 26
- 27 **WHEREAS**, Turning Point Systems Group of Milwaukee Wisconsin is the sole source for a Carlson
- 28 Robotic Total station that works seamlessly with the GNSS system under the Stat contract; and,
- 29
- 30 **WHEREAS**, Turning Point Systems Group of Milwaukee is a vendor for Carlson Survey 2013, a
- 31 survey/civil CAD package that will work seamlessly with the equipment being purchased and the existing
- 32 County GIS program; and,
- 33
- 34 **WHEREAS**, savings from utilizing an intern during 2013 and not filling the Deputy Surveyor position
- 35 permit the purchase of this require equipment.
- 36
- 37 **NOW, THEREFORE, BE IT RESOLVED**, by the Rock County Board of Supervisors duly assembled
- 38 this 11<sup>th</sup> day of April, 2013 that a Purchase Order for surveying equipment and software
- 39 be issued to Turning Point Systems Group of Milwaukee, WI in the amount of \$29,480.00.

13-4A-295


**AUTHORIZING THE PURCHASE OF SURVEYING EQUIPMENT**

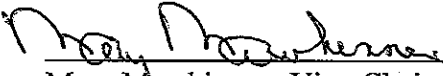
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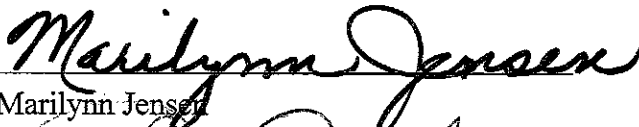
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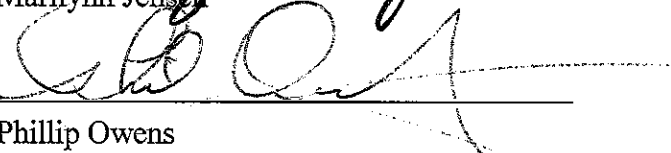
Respectfully submitted,

PLANNING COMMITTEE

  
\_\_\_\_\_  
Alan Sweeney, Chair

  
\_\_\_\_\_  
Mary Mawhinney, Vice-Chair

  
\_\_\_\_\_  
Marilynn Jensen

  
\_\_\_\_\_  
Phillip Owens

Absent  
\_\_\_\_\_  
Wayne Gustina

PURCHASING PROCEDURAL ENDORSEMENT

Reviewed and approved on a vote of  
4-0

  
\_\_\_\_\_  
Mary Mawhinney, Chair

FISCAL NOTE:

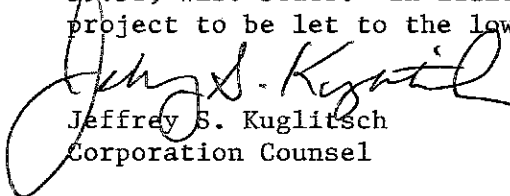
Due to the Deputy Surveyor vacancy, sufficient funds are available in the Surveyor's 2013 budget for the cost of this purchase.



Sherry Oja  
Finance Director


LEGAL NOTE:

The County Board is authorized to take this action pursuant to secs. 59.01 and 59.51, Wis. Stats. In addition, sec. 59.52(29), Wis. Stats. requires the project to be let to the lowest responsible bidder.

  
\_\_\_\_\_  
Jeffrey S. Kuglitsch  
Corporation Counsel

ADMINISTRATIVE NOTE:

Recommended.

  
\_\_\_\_\_  
Craig Knutson  
County Administrator

## EXECUTIVE SUMMARY

The Rock County surveying department is responsible for the database maintenance and remonumentation of the Public Land Survey System, (PLSS), in Rock County. The findings, information and data produced provide the framework for the County Geographic Information System, (GIS). The GIS is critical to other County departments and continuing to provide accurate Wisconsin County Coordinates, Rock datum, is a priority of this office. Additionally, private users, including residents, land owners and professionals offering services in the County regularly access the GIS information available via the internet and records for which I am the custodian. Efficiently fulfilling the statutory obligations of the office and providing information and services critical for others now and into the future is incumbent upon the County surveyor. Working in conjunction with administration, finance and purchasing, I have assessed the needs of the department and identified cost-saving measures that permit the purchase of modern equipment and software. Transferring budget dollars available by way of reduced labor costs makes the purchases possible and will facilitate the office meeting its goals and obligations.

Vendors were selected based on them offering the equipment that is needed and by having a Wisconsin presence, as the availability and importance of timely technical assistance cannot be overstated. The selection process revealed the existence of a State contract for a Carlson Global Navigation Survey System, (GNSS), through Turning Point Systems Group, (TPS), based out of Milwaukee, WI. GNSS incorporates both United States and Russian satellite constellations and gives surveyors the ability to efficiently perform surveying services at the level expected of 21<sup>st</sup> century surveying professionals. Furthermore, TPS was identified as the sole source of robotic surveying equipment that works seamlessly with components of the GNSS system. Carlson equipment allows seamless integration of advanced surveying hardware and software which promotes a predictable workflow and timely results. The equipment and software purchased through TPS positions the County surveying department to provide reliable and timely information to a vast amount of users geospatial data. The equipment used by today's surveying professionals has seen dramatic technological advancements in recent years and consistent with all other technologies impacting society, that trend is not expected to change. Periodic review of the needs of the department will occur regularly and approximately every five years.

### QUOTE INFORMATION AND PRICING:

#### QUOTE 13264

*Surveyor + with GNSS receiver, and accessories per  
State of WI. Agriculture, Trade and Consumer Protection Contract AG-2013-02*

*Carlson CR5 Robotic Total Station and accessories*

*Carlson Survey software 2013*

*System enhancements, (Heavy duty tripod, thumb release prism pole bipod, tribrachs, etc.)*

**AMOUNT:**                                      **\$29,480.00**