

ENROLLED ORDINANCE 166-5

MODIFY CAPITAL PROJECT 201119 TO ADD 2011 REVENUE AND EXPENDITURES
FOR THE LIGHT DETECTION AND RANGING (LIDAR) DATA
COLLECTION PORTION OF THE PROJECT

WHEREAS, Waukesha County has experienced significant flood events in the past 5 years, and

WHEREAS, flooding can result in significant damage to overall public health as well as substantial property loss, and

WHEREAS, improving the accuracy of the maps that display areas subject to flooding would allow for better regulation and planning in such areas, and

WHEREAS, better regulation and planning in areas subject to flooding would improve public health conditions and lessen property damage, and

WHEREAS, better regulation and planning would allow for faster recovery from future flood events, and

WHEREAS, the use of Light Detection and Ranging (LIDAR) technology can provide highly accurate base information that can be used to refine the existing maps of areas subject to flooding, and

WHEREAS, LIDAR has been adopted by the Federal Emergency Management Agency (FEMA) as an acceptable method for generating base data for use in compiling or updating Federal Floodplain maps, and

WHEREAS, LIDAR data, which provides a computer simulated model of the earth's surface, can be used for other applications including aerial photography ortho-rectification, stormwater management and engineering design projects, and

WHEREAS, LIDAR data was to be collected as part of Waukesha County capital project 201119, and

WHEREAS, the Wisconsin Department of Commerce has made grant funds available to Counties for use in acquiring LIDAR data for use in creating updated floodplain maps.

THE COUNTY BOARD OF SUPERVISORS OF THE COUNTY OF WAUKESHA ORDAINS that the Department of Parks and Land Use accept a Community Development Block Grant-Emergency Assistance Program (CDBG-EAP) grant from the Wisconsin Department of Commerce in the amount of \$204,520 for use in collecting LIDAR base data for Waukesha County.

BE IT FURTHER ORDAINED that the 2011 Capital Budget be modified by increasing expenditures and revenues for Capital Project 201119 Orthophotography 2015 by \$204,520 for the use of available grant funding to acquire LIDAR data for use in creating updated floodplain maps.

BE IT FURTHER ORDAINED that the 2011-2015 Capital Plan be modified to reduce expenditures by \$204,520 for project year 2015 for Capital Project 201119 Orthophotography 2015.

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FOR THE LIGHT DETECTION AND RANGING (LIDAR) DATA
COLLECTION PORTION OF THE PROJECT

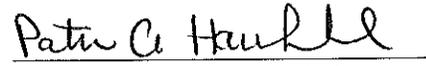
Presented by:
Executive Committee

Approved by:
Land Use Committee

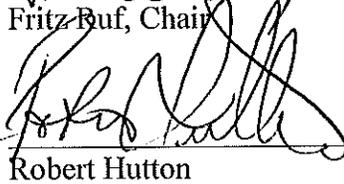
Approved by:
Finance Committee

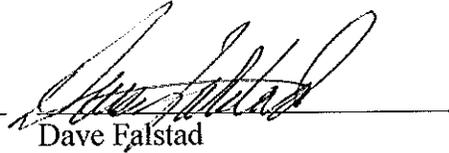

James T. Dwyer, Chair

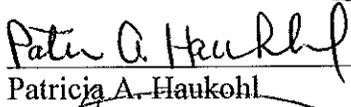
~~(Absent)~~
Fritz Ruf, Chair


Patricia A. Haukohl, Chair

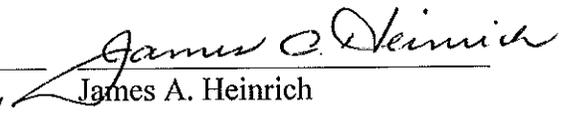

Janel Brandtjen

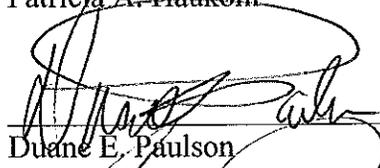

Robert Hutton

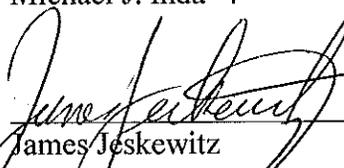

Dave Falstad


Patricia A. Haukohl

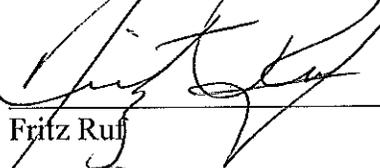
~~(Absent)~~
Michael J. Inda

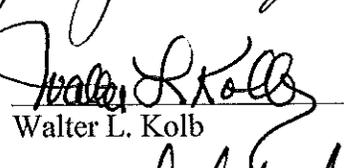

James A. Heinrich

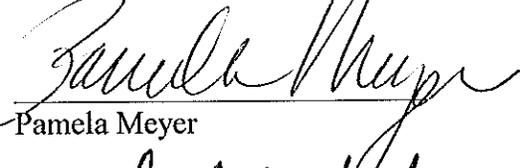

Duane E. Paulson

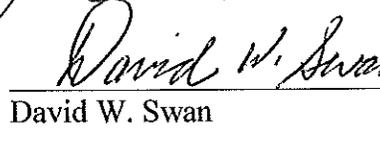

James Jeskewitz

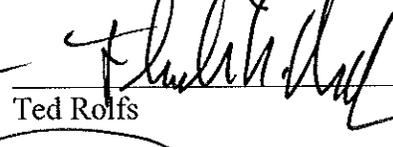
~~absent~~
Robert Hutton

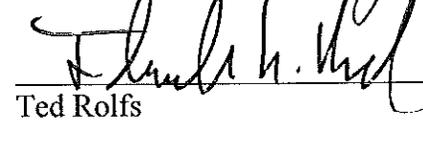

Fritz Ruf


Walter L. Kolb

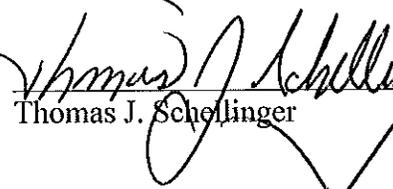

Pamela Meyer

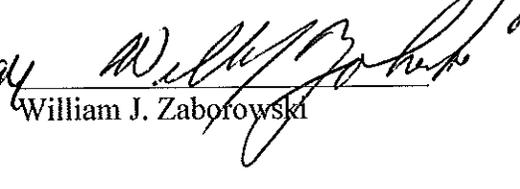

David W. Swan


Ted Rolfs


Ted Rolfs


Jean Tortomasi


Thomas J. Schellinger

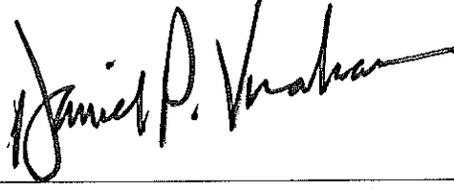

William J. Zaborowski

The foregoing legislation adopted by the County Board of Supervisors of Waukesha County, Wisconsin, was presented to the County Executive on:

Date: 4-29-2011, 
Kathy Nickolaus, County Clerk

The foregoing legislation adopted by the County Board of Supervisors of Waukesha County, Wisconsin, is hereby:

Approved: X
Vetoed: _____

Date: 4-29-11, 
Daniel P. Vrakas, County Executive

Project #	201119	Project Title:	2015 Orthophotography
Department:	Parks and Land Use	Sponsor:	
Phase:	5 years – Program Project	Manager:	Don Dittmar
Budget Action:	New	Date:	April 5, 2011

REVISED

CAPITAL BUDGET SUMMARY			
Year	2011	2015	Total
Project Phase	Project Work	Project Work	Project
Expenditure Budget	\$204,520	\$195,480	\$400,000
Revenue Budget	\$204,520	\$0	\$204,520
Net County Cost	\$0	\$195,480	\$195,480
COST DOCUMENTATION		REVENUE	
Contract Costs	\$400,000	CDBG-EAP	\$ 204,520
Contingency	\$0	Fund Balance will be appropriated to the extent it is available prior to when the project is budgeted.	
Total Project Cost	\$400,000		
EXPENDITURE BUDGET	\$400,000	REVENUE BUDGET	\$204,520

Project Scope & Description

Aerial images were acquired for Waukesha County in 1963, 1970, 1975, 1980, 1985, and 1990 under programs administered by the Southeastern Wisconsin Region Planning Commission (SEWRPC). Higher precision Orthophotography (images that have been "ortho-rectified" to correct for distortion caused by changes in terrain) were acquired in 1995, 2000, and 2005. Capital project 200614 created new Orthophotography for the County in 2010.

Orthophotography requires that a Digital Terrain Model (DTM) be created to allow the ortho-rectification process to be completed. The DTM contains data that allows a computer to generate a model of the land surface of the County. The DTM required for the creation of Orthophotography is not as precise as the model that is required to generate the 2-foot contour topographic base maps usually required for regulation and analysis. Waukesha County Capital projects ROD9900 and 200508 each contributed funds to create the higher precision DTM that was used to generate a countywide 2-foot contour topographic base map in 2005. This DTM was later used by FEMA to refine floodplain boundaries in Waukesha County under a Federal matching project that credited the County with \$600,000 in local match due to the existence of the DTM.

This project will fund the acquisition of new Orthophotography in 2015 to continue the series and provide high quality imagery to support regulatory and planning activities in the County. In addition, new Light Detection and Ranging (LiDAR) technology will be used to create a new high precision DTM, a new 2-foot topographic base file to capture changes in the terrain of the County that have occurred since 2005, and monitor changes in floodplain elevations. A grant was received through the Community Development Block Grant -- Emergency Assistance Program for the collection of LiDAR data. In order to take advantage of this grant, the expenditure for the LiDAR portion of this project has been advanced to 2011. The LiDAR data collected at this time will still provide precise base data for the anticipated Orthophotography portion of this project in 2015. It is anticipated that the LiDAR based DTM and contour files will provide for more precise data and allow less costly updating in the future. It is also anticipated that this project would be done in conjunction with the Southeastern Wisconsin Regional Planning Commission's planned collection of new Orthophotography for their region which includes Waukesha County.

Location

Parks and Land Use Division

Analysis of Need

The Orthophotography images, topographic maps and underlying DTM are used by the Planning, Parks, Land Conservation, and Transportation Departments in their planning and development activities. Without current, consistent information, inaccurate assumptions could be made resulting in costly changes in planned activities

Alternatives

Not create this information

Ongoing Operating Costs

None

Previous Action

Capital Plan ROD 9900 in 2000. Capital Plan 200508 in 2005. Capital Plan 200614 in 2006.

FISCAL NOTE

MODIFY CAPITAL PROJECT 201119 TO ADD 2011 REVENUE AND EXPENDITURES FOR THE LIGHT DETECTION AND RANGING (LIDAR) DATA COLLECTION PORTION OF THE PROJECT

The ordinance allows the Department of Parks and Land Use to accept grant funds from the Community Development Block Grant- Emergency Assistance Program. The ordinance modifies the 2011 Capital Budget for Capital Project 201119 Orthophotography 2015 to increase expenditures and revenues to \$204,520 to utilize grant funds for the acquisition of Light Detection and Ranging (LIDAR) technology. This part of the project will proceed earlier than planned. The ordinance further modifies the 2011-2015 capital plan to reduce the 2015 project year for project 201119 Orthophotography 2015 by \$204,520 with no change in the total project expenditures. Anticipated fund balance use (if available) is also reduced in 2015 due to use of available grant funding.

Orthophotography	<u>2011-2015 Plan</u>	<u>Proposed Change</u>	<u>Revised Project</u>
<u>Expenditures</u>			
2011	\$ -	\$ 204,520	\$ 204,520
2015	\$ 400,000	\$ (204,520)	\$ 195,480
Total Expenditures	\$ 400,000	\$ -	\$ 400,000
<u>Revenues</u>			
Fund Balance-if available	\$ 400,000	\$ (204,520)	\$ 195,480
Grant Funds	\$ -	\$ 204,520	\$ 204,520
Total Revenues	\$ 400,000	\$ -	\$ 400,000


 Keith K. Swartz
 Budget Manager
 4/5/11
 LGW

WAUKESHA COUNTY BOARD OF SUPERVISORS

V

DATE-04/26/11

(ORD) NUMBER-1660005

- 1 D. FALSTAD.....AYE
- 3 R. HUTTON.....
- 5 J. JESKEWITZ.....AYE
- 7 P. HAUKOHL.....AYE
- 9 J. HEINRICH.....AYE
- 11 F. RUF.....AYE
- 13 P. DECKER.....AYE
- 15 P. MEYERS.....AYE
- 17 J. TORTOMASI.....AYE
- 19 S. WIMMER.....
- 21 W. ZABOROWSKI.....AYE
- 23 K. ^{Vacant}CHIAVEROTTI.....
- 25 G. YERKE.....AYE

- 2 T. ROLFS.....
- 4 J. DWYER.....AYE
- 6 J. BRANDTJEN.....AYE
- 8 T. SCHELLINGER....AYE
- 10 D. SWAN.....AYE
- 12 P. WOLFF.....AYE
- 14 M. INDA.....AYE
- 16 D. PAULSON.....AYE
- 18 K. CUMMINGS.....AYE
- 20 P. JASKE.....AYE
- 22 P. GUNDRUM.....AYE
- 24 W. KOLB.....AYE

TOTAL AYES-21

TOTAL NAYS-00

CARRIED _____

DEFEATED _____

UNANIMOUS X

TOTAL VOTES-21