



Sidwell Orthophoto Mapping Solutions

Digital orthophoto mapping technology provides a variable scale base to support and enhance a range of topographic, planimetric, cadastral, and GIS mapping applications. A digital orthophoto is a computer-processed aerial photo that can be viewed on screen and plotted to hard-copy format. Because digital maps can be superimposed over orthophotography on screen, additional features can be viewed in the geographic context of the maps. Digital orthophoto images can be viewed individually, or in groups "mosaicked" together, and can be output to hard copy in a variety of formats and scales for use in the field.

A digital orthophoto originates with a conventional aerial photo, which is then subjected to processing for orientation and differential rectification operations. In the orientation process, control is applied to scale and register the image to its proper geographic location on the earth. Differential rectification involves converting the perspective projection of an aerial photo to that of an orthographic projection, removing effects of horizontal displacement of image features due to terrain relief. Ground features in orthophotography appear in their "true" horizontal position and can be used to make reliable measurements.

With digital orthophotography, a user can display an aerial image along with other GIS data, such as cadastral, planimetric or topographic map data to support several different applications.



Optional Annotation

Sidwell's GIS staff can add annotation to the orthophoto imagery in order to add value and functionality. Below are a few suggested annotations:

- Road names
- Water names
- Place names
- Address ranges
- Road or water centerlines
- Other attributes

Accuracy

Sidwell topographic mapping is designed around your specific needs and will meet or exceed ASPRS and National Map Accuracy Standards.

Sidwell Experience

Sidwell has provided orthophotography and other photogrammetric services to counties, cities, engineers and planners for more than fifty years. We have the knowledge and resources to execute your project accurately and on time. To find out more and obtain a quotation, please contact:

Applications of Orthophotography

<i>Suggested Pixel Resolutions</i>	1/8 ft	1/4 ft	1/2 ft	1 ft	2 ft
Public Works Design	x	x	x		
Remediation		x	x		
Urban Planning		x	x		
Topographic Mapping		x	x	x	
Environmental Management				x	x
Tax Assessment			x	x	x
GIS Mapping			x	x	x
Agriculture			x	x	x

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