



Howard County, NE

Web Based Enterprise GIS

09.30.2009

GIS Workshop, Inc.

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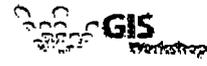


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Company Information

Company Description

GIS Workshop has been providing quality GIS data and analysis solutions to a wide array of corporate and government agencies (Butler County, NE; Hamilton County, NE; Clay County, NE; Saline County, NE; Seward County, NE; Platte County, NE; etc.).

GIS Workshop works extensively with county level agencies to provide customized spatial information management and analysis solutions. GIS Workshop staff has over 50 years combined experience in GIS analysis in a wide variety of vertical markets (municipal government, environmental engineering, civil engineering, satellite imagery analysis, agriculture, defense, and telecommunications).

We are committed to total client satisfaction through delivery of complete GIS solution packages. GIS Workshop pledges to work closely with the Howard County staff to create and deliver the Web Mapping Website, training, and post-delivery support. Our locale enables us to provide timely, on-site support and training to ensure that Howard County will achieve maximum benefit from this new technology.

GIS Workshop develops best-in-class GIS technology and employs a professional staff that will exceed the goals for this project.

Company Headquarters

GIS Workshop, Inc.
 415 N. 66th Street, Suite 7
 Lincoln, NE 68505
 TEL: 402-436-2150
 FAX: 402-436-2152
 EMAIL: mtooze@gisworkshop.com

Contact: Marcus Tooze

Organizational Structure

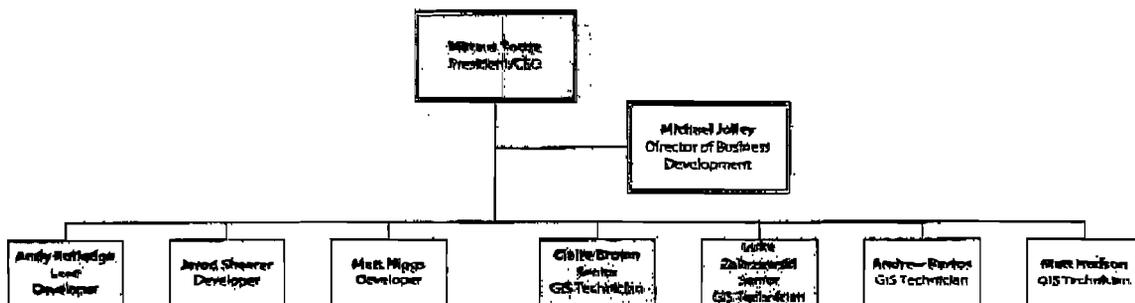


Figure 1: GIS Workshop employs a flat management structure encouraging involvement from all personnel

Project Manager: Michael Jolley

Mr. Jolley is Director of Business Development at GIS Workshop, Inc. possessing over 15 years experience in program and project management. As Director of Business Development, Mr. Jolley is responsible for all marketing and sales functions of GIS Workshop. In addition, Mr. Jolley provides program and project management expertise for all Economic Development, Public Works/Utilities, and Law Enforcement systems. Mr. Jolley is a member of the Nebraska Economic Development Association, the Mid-America Economic Development Council, and the Nebraska GIS/LIS Association. Prior to joining GIS Workshop, Mr. Jolley was instrumental in the establishment of Vision Manufacturing, a Contract Electronics Manufacturing company in San Diego, CA. As Materials Manager, he designed and developed multiple company divisions, providing project management expertise. Mr. Jolley earned his B.B.A. from the University of San Diego in Business Administration specializing in Strategic Management. He will act as



project manager for the Web GIS project, providing the interface between GIS Workshop, Inc. technicians and the Howard County staff. Mr. Jolley is available for the duration of the project, providing support and organizational expertise.

Senior GIS Developer: Jarod Shearer

Mr. Shearer is our most senior developer with GIS Workshop. His experience lies primarily in GPS and external sensor integration, chiefly with Trimble GPS and ESRI software. He has extensive experience in both Microsoft and UNIX environments. He is an accomplished programmer in C, C++ (MFC), embedded C++, Visual Basic, Map Objects, ArcObjects, and Java. Mr. Shearer received his B.S. in Computer Science from the University of Nebraska-Lincoln. His skills are most useful in mobile application customization and application development. Mr. Shearer will be available for the duration of the project, specifically for software installation and system configuration tasks.

GIS/Web Developer: Matt Higgs

Mr. Higgs is the newest member of the GIS Workshop team. His experience lies primarily in web development and integration. He has extensive experience in both Microsoft and UNIX environments. He is an accomplished programmer in C, C++ (MFC), embedded C++, Visual Basic, Map Objects, ArcObjects, and Java. Mr. Higgs received his B.S. in Computer Science from the University of Nebraska-Lincoln. His skills are most useful in website design and development and application development. Mr. Higgs will be available 100% for the duration of the project.



Project Overview

Introduction

GIS Workshop, Inc. proposes to design and build a GIS Mapping Website for Howard County. The website

- Will allow the assessor to calculate land use/soil acreages and
- Allow subscribers with Internet access to search for real estate information on Terrascan without having to call or visit the Howard County offices. This may significantly reduce the call and desk traffic for ordinary information requests normally made at the Courthouse. GIS Workshop, Inc. will host the Internet mapping system on our servers for 24/7 availability.
- Remove the need to perform day-to-day GIS data management. GISW will perform all ongoing land use and parcel editing. GIS Workshop, Inc. will perform all data and system maintenance so the assessor will not be required to maintain any data locally.

Application Design & Build

To ensure the system functions as desired by assessor staff, GIS Workshop will design and build the web interfaces based on their direction.

The initial page introduces the user to the Howard County main web page. On this page, the user interacts with the basic search interface, allowing them to search via Owner Name, Parcel ID, or address (if available in Terrascan).

Codrington County Department of Equalization
Property Search and Mapping

Shawn Constant - Deputy Director of Equalization
Codrington County, SD
14 1 St Ave SE
Whitecourt, SD 57201
TEL: (605) 682-6274
FAX: (605) 682-5367
EMAIL: codclbae@codrington.org

Home
Codrington County Website
South Dakota BOE
Calendar
Contact Us
Help/Tutorial

Owner:

Parcel ID:

Address:

This site is continuously changing. All data was last updated on February 1st, 2007.
Current sketch and building characteristics may not be reflected in current year valuation.

Done Internet

Figure 2: Example web page

The site presents the Search results in a simple layout, listing all matches to the search criteria. If the user creates a query resulting in multiple parcels (e.g., searches for all parcels owned by "Smith" in the county), the site will return a table of parcel records listing the name and address of all matches.

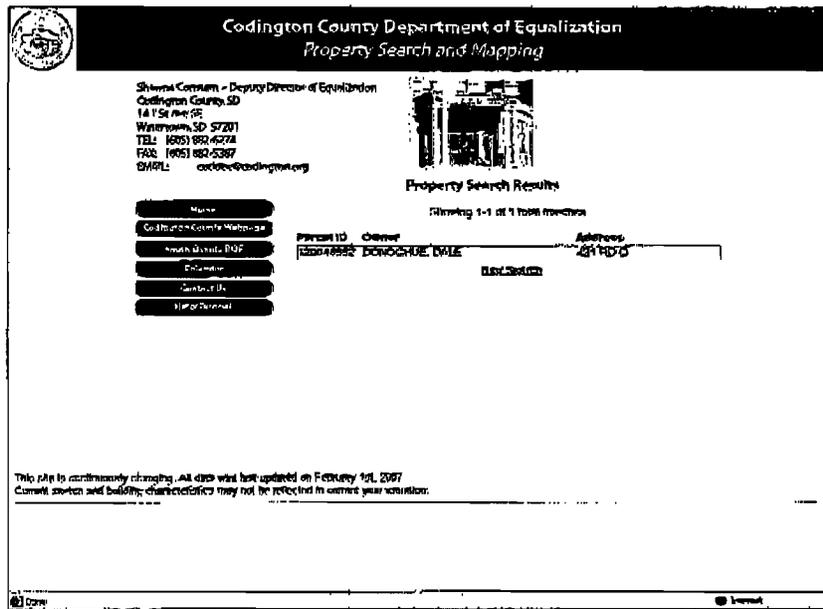


Figure 3: Example of the Search Results page

Once the user has found the parcel they are interested in, they may view the data. The layout, type, and amount of data available to the user are up to the Howard County staff. The system can display any piece of information from Terrascan. The Property Records Sheet displays the data selected by Howard County (as noted in Appendix A). In addition, it is impossible for anyone but the assessor to change any of the data.

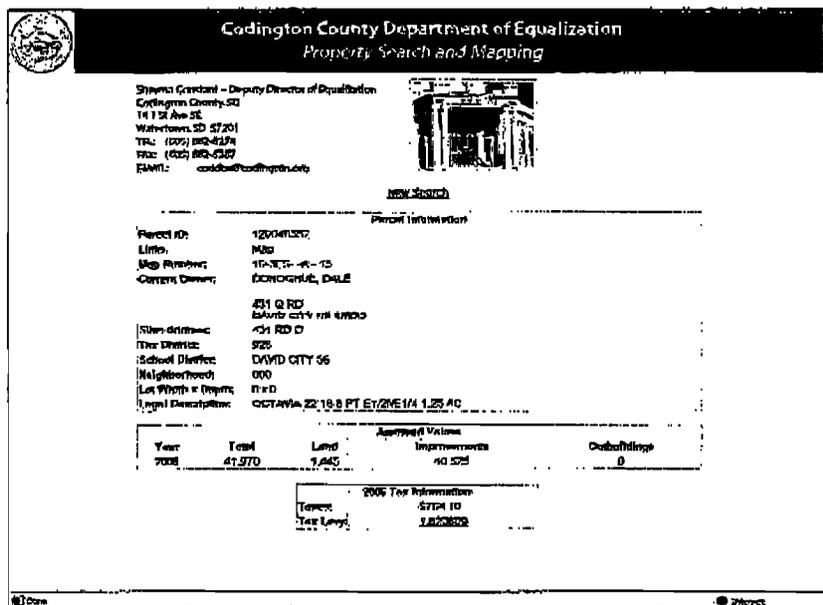


Figure 4: Example Property Results Listing - Initial Page



Project Information

Project ID: 13087544125
 Address: 451 RD O
 Map Number: 15-3235-01-75
 District Name: DONGOLITE, ORLE

Site Address: 451 RD O
 DAVID CITY NE BR33-
 451 RD O
 Tax District: 025
 School District: DAVID CITY IS
 Neighborhood: 451
 Lot Width x Depth: 0 x 0
 Legal Description: OCTAVA 22 16 3 FT E 1/2 SEC 16 126 AC

Year	Total	Cost	Improvements	Outbuildings
2007	41,970	1,443	40,527	0

2008 Tax Information

Taxes: 2774.10
 The Levy: 1.600000

Physical Overview

Type: Single-Family	Heat Type: 60% RADIATOR HOT WATER
Quality: 3D Average	Foundation:
Arch Type:	Slab Area:
Year Built: 1920	Garage Area:
Acres Aged: 07	Basement Area: 532
Ext. Wall 1: 100% BRICK	Attic Finish:
Ext. Wall 2:	Fire Finish:
Blow Area: 1,477	Fire Finish:
Total Area: 2,932	Bedrooms: 4
Style 1: 100% Two Story	Bathrooms: 1
Style 2:	Garage Type:
Roof Type: WOOD SHAKES	Garage Area:

Figure 5: Continuation of Property Results Page

The property photographs and sketches provided by Howard County in Terrascan are available for viewing by the user by clicking on the links.

Improvement	Year	Cost
WATER-SEWER IMPROV		60
DET GAR FMR COND		370
DET GAR FMR COND		1150
CONCRETE FLOOR		1150
DET GAR FMR COND		876
CONCRETE FLOOR		676
UTILITY BLDG		80

Photos and Sketches

Photo:

Sketch:

Click to enlarge pictures.

Please note that these photographs and drawings may be larger than the current resolution of your screen. You may want to either download them to your computer (right-click, "Save Target As" in Internet Explorer), or print them from your browser to view them in a larger format.

This site is continuously changing. All data was last updated on February 1st, 2007.
 Current sketch and building characteristics may not be reflected in current year valuations.

Disclaimer: The online information contained herein is furnished as a public service by the Burke County Assessor's Office. All information was obtained in the process of developing the annual Property Tax Roll as provided in the Chapter 17 of the Georgia Revised Statutes. The Burke County Assessor's Office makes no warranties, either expressed or implied, concerning the accuracy, completeness, reliability, or applicability of the information for any other particular use. Furthermore, the Burke County Assessor's Office and its employees do not assume any liability whatsoever with respect to any use of the information provided on this website.

Figure 6: Property Pictures and Sketches from Terrascan

The assessor will also be able to perform LVG acreage calculations:
 Figure 7: A typical land use/soils/LVG calculation.



Metadata

GISW will build and maintain FGDC standard metadata for the parcel and land use layers.

Adherence to NITC Standards

Any ongoing work performed by GISW to existing Howard County data layers (parcel and land use) will meet or exceed the NITC standards.

Data Access

The web system will be publicly available. The LVG calculation portion of the web site (which is of no interest to the public) will be only available to authorized users.

Hosting, Maintenance, & Support

Hosting

GIS Workshop will host the website on our redundant servers for Howard County. We will include the first 12 months of hosting fees at no cost.

Maintenance

We recommend updating the CAMA (Terrascan) data every 24h, but it is up to Howard County to select an update period based on sales activity within the county. GISW will also perform all land use and parcel layer editing services for the county. The assessor must fax or mail parcel/landuse changes to GISW in a timely fashion.

Support

Our extensive GIS experience provides us with the ability to tailor support packages specific to your needs, thereby utilizing your resources as efficiently and as cost-effectively as possible. GIS Workshop firmly believes in field support of all products delivered. Support options are available via telephone, online, and email. GIS Workshop operates telephone and on-line support teams. Our on-line support system is a web-based application (www.gotomeeting.com) that allows us to quickly view the User's desktop, take control of the desktop, and allow the user to view our desktop during a support call. This quick, simple system allows us to diagnose problems quickly in real time. It also allows us to perform group and 1-on-1 training sessions via the web. GIS Workshop supports a 1-800 customer support line from 8 am – 6 pm CST for fast response to customer problems.

GIS Workshop will include support for the first year at no additional cost.

After the initial year of hosting, maintenance, and support, an annual hosting, maintenance, and support fee is due.

Project Responsibilities & Schedule

Howard County Project Responsibilities

- (1) Providing full access to GIS and Terrascan databases for purposes of installing and customizing the assessor web system.
- (2) Provide GISW with the latest version of the GIS parcel layer for incorporation into the web site.
- (3) Digitize land use layer under guidance from GISW staff and provide this data layer to GISW for incorporation into the web site.
- (4) Provide access to the Terrascan server so we may install our automated data transfer software to copy updated Terrascan data to our servers every 24h.
- (5) Assist in the clarification of any questions that may occur

Project Schedule

The GIS Workshop team is ready to start the Howard County, NE Mapping Website project after acceptance and receipt of a signed contract according to the tasks described in this proposal. We



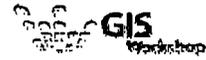
anticipate project completion 16 weeks after notice to proceed based on the above outlined steps. GIS Workshop prides itself on providing a superior level of service encompassing accuracy and timeliness in product delivery. GIS Workshop provides a simple guarantee to all clients...GIS Workshop will deliver products on time as per the agreed contract. GIS Workshop, Inc cannot be held responsible for delays due to third parties.

Pricing Information

Pricing by Task/Deliverable

The Mapping Website includes one year of hosting, maintenance, and support fees, following which, the maintenance fee will be due on the 1st day of the month 12 months from signing of the agreement. The system will be hosted on GIS Workshops specialized ArcGIS Servers, connected to the Internet through a T-3 dedicated fiber line. The following are the costs for these services:

Deliverables by Task	Cost (\$)
COSTS FOR PROPOSED SERVICES:	
Step 1: GIS Services	\$20,000
A) Application Design & Build	\$20,000
B) CAMA/Admin Data Incorporation	Included
C) Implementation & Site Linking	Included
Deliverable: Secure Assessor/Equalization Mapping Website	
Step 2: Hosting, Maintenance, & Support – 1st year	Included
A) Hosting	Included
B) Maintenance – 24h CAMA updates, Land Use/Parcel updates	Included
C) Support	Included
Deliverable: 12 Months Hosting	
Deliverable: 12 Months Maintenance	
Deliverable: 12 Months Telephone Support	
Deliverable: 12 Months Online Support	
Total Costs for above listed Services	\$20,000
ANNUAL COSTS FOR ANNUAL HOSTING, MAINTENANCE, & SUPPORT (After 1st year):	
Hosting, Maintenance, & Support	\$9,000/year
A) Annual Mapping Website Hosting	Included
B) Maintenance – 24h CAMA updates, All Parcel/Land Use Updates	Included
C) Telephone/Online Support	Included



Appendix

Appendix A: Included Web Site Information - Preliminary List

- 1) Parcel ID
- 2) Current Owner with mailing address
- 3) Situs
- 4) Legal Description
- 5) Property Class
- 6) Neighborhood
- 7) Tax District
- 8) Assessed Value
- 9) Taxes
- 10) Levy
- 11) Sales Information
 - a) Book & Page
 - b) Grantor
 - c) Sale Date
 - d) Sale Price
- 12) Property Data (residential or commercial)
- 13) Building Data
- 14) Miscellaneous Improvements
- 15) Photo
- 16) Sketch
- 17) Disclaimer