



SUBMISSION FORM

All submission forms must include the following information. Separate submission forms must be turned in for each eligible program. **Deadline: July 1, 2025.** Please include this submission form as the first page of your electronic entry. If you do not receive an email confirming receipt of your entry within 3 days of submission, please contact [Gage Harter](#).

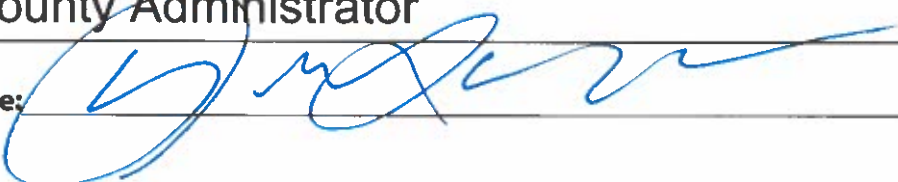
PROGRAM INFORMATION

County: Roanoke County
Program Title: OneView Web Application Solution
Program Category: Technology

CONTACT INFORMATION

Name: David Wray
Title: GIS Manager
Department: Information Technology
Telephone: 540.777.8564 Website: <https://oneview.roanokecountyva.gov/>
Email: dwray@roanokecountyva.gov

SIGNATURE OF COUNTY ADMINISTRATOR OR DEPUTY/ASSISTANT COUNTY ADMINISTRATOR

Name: Richard Caywood
Title: County Administrator
Signature: 

EXECUTIVE SUMMARY

“OneView” is a groundbreaking application aimed at enhancing public access to information in Roanoke County. The application achieves our specific needs and goals, ensuring maximum efficiency and effectiveness in deploying resources. In the future, the application can be supported and enhanced in-house. The custom widget within ESRI’s Experience Builder will serve as a powerful tool for citizens, enabling them to search for data using various criteria like parcel ID, owner name, and address. The display of information for each property will be highly configurable, encompassing details such as 1) Parcel ID, 2) Account Number, 3) Owner Name and 4) Site Address. This application, and process, were created using the Esri’s ArcGIS Experience Builder and ArcGIS JavaScript 4.23 API. The web application can be found at <https://OneView.roanokecountyva.gov/>.

The Problem or Need for the Program

Roanoke County developed the New OneView Application solution, a professional grade location-aware, mobile application to enable streamlined access to GIS data through an intuitive and conveniently accessible platform. This improved access and increased transparency promotes engagement and helps foster informed decision making by government and citizens alike. The OneView Application provides easy access to GIS data, enhances transparency and streamlines communication between citizens, Development Services, Planning & Zoning, Real Estate Valuation and many other departments. The OneView Application empowers the end-users with the ability to get necessary data quickly and analyze Roanoke County from every angle with GIS data in a modern mapping interface. The OneView Application operates on any platform and is accessible by mobile and desktop users. Modern technology ensures compatibility regardless of the browser or operating system used to access the OneView Application. OneView Application allows for the sharing of GIS data among end users by in-app sharing and social media features. Local developers use the OneView Application to quickly access information about planning corridors, zoning ordinances, infrastructure, real estate market values, land use codes, and other information vital to their business needs. The integration of technologies like Esri's ArcGIS Experience Builder showcases a modern approach to managing public services, making the development process more efficient. This initiative not only benefits users by providing timely information but also helps the county manage resources more effectively. The solution was implemented in December 2024.

Description of the Program

Mobile technologies (i.e., smart phones, tablets, etc.) have had a profound effect on shaping user behavior and expectations over the years. This trend, combined with the ever-growing

power of GIS to deliver data within a familiar spatial context created an opportunity for the County to share access to data in new ways and with new tools. Staff combined off-the-shelf functionality with custom development to create a state of the art, yet stand-alone application named OneView to serve as the power user tool for Roanoke County's GIS efforts.

GIS has always been considered a hub technology by providing access to information in multiple external systems, but only a comparatively small set of users have typically had the skills and training to use advanced GIS data and tools. By delivering this wealth of data in an easily digestible way through the user-friendly OneView Application the County has empowered end users to find information more efficiently, resulting in better decision making for both internal and external customers. OneView offers professional grade and advanced GIS tools in an intuitive and easy to use application that is accessible to everyone. Questions about parcel sales, zoning, infrastructure, flood plain, and environmental conditions previously required technical staff to generate data and maps from a customer request. These tasks can now be completed by end users immediately with the new OneView Application. Enabling access to this level of GIS-based information has made both County departments and the public more efficient in their daily tasks.

To anchor the system, the County utilized Esri's ArcGIS Experience Builder to develop a mobile friendly web application. From the onset, development started with the approach to build the framework application for a variety of needs and to provide an intuitive user experience. An investment was also made in custom development to leverage outside services such as Google Maps and Google StreetView, allowing users to explore the County from every angle, from the comfort of home or office.

Local and prospective businesses now have instant access to parcel and property information and can quickly create quality printed products for their internal planning and use.

GeoEnrichment reports included in the app now offer a new depth of economic and demographic data available to both County staff and business.

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Application to quickly access information about planning corridors, zoning ordinances, infrastructure, and land use codes. Staff use the OneView Application to more efficiently provide front counter support for building permits, inspections, address assignments and other types of property information needed by local contractors and citizens. Real estate agents, appraisers, and title companies use the OneView Application to review the accuracy of annual real estate assessments and market sales. OneView Application has become a one-stop and mobile-accessible application that provides maps and data quickly no matter the situation, location, or business need of the end user. Since the application's December 2024 launch, the OneView Web Application solution has served 70,000 pageviews. With the OneView Web Application solution, Roanoke County has achieved its goal of offering staff and citizens a new level of access to information they need on any device, at any time, and anywhere it is needed to make smarter decisions.

Parcel Information

Account Number:
37933

Tax Parcel ID:
087.07-03-08.00-0000

Owner Name:
ROANOKE CO BOARD OF SUPERVISORS

Address:
5204 Bernard Dr, Roanoke Va, 24018

Case Information

Case Number:
SP-2305028

Case Status:
REVIEW

Date Created:
6/9/2023

Case Type:
Site Plan



Task Description	Result	Target End	Completed
Plan Submittal Packet Review	ACCEPTED	6/9/23 1 PM	6/9/23 1 PM
Residential or Commercial	RES	6/14/23 1 PM	6/9/23 1 PM
Build and Distribute Review Packet	COMPLETE(R	6/9/23 1 PM	6/9/23 1 PM
Dev Review	NA	6/23/23 1 PM	6/9/23 1 PM
Fire Review	NA	6/23/23 1 PM	6/9/23 1 PM
WVWA Review	NA	6/23/23 1 PM	6/9/23 1 PM
Engineering Review	NA	6/23/23 1 PM	6/9/23 1 PM
Zoning Review	NA	6/23/23 1 PM	6/9/23 1 PM
Planning Review	NA	6/14/23 1 PM	6/9/23 1 PM
Site Plan Approved	NO-NOCHN	6/9/23 1 PM	6/22/23 1 PM
Notify Applicant	COMPLETE	6/27/23 1 PM	6/22/23 1 PM
Build and Distribute Review Packet	COMPLETE(R	6/22/23 1 PM	6/22/23 1 PM
TOV Zoning Review	NA	6/22/23 11 PM	6/22/23 1 PM
TOV Public Works Review	NA	6/22/23 11 PM	6/22/23 1 PM
Site Plan Approved	YES-NOCHN		8/3/23 2 PM
Flood Plain Review		6/22/23 11 PM	
Dev Review		6/22/23 11 PM	
Fire Review		6/22/23 11 PM	
Engineering Review		6/22/23 11 PM	
Zoning Review		6/22/23 11 PM	
WVWA Review		6/22/23 11 PM	
Planning Review		6/22/23 11 PM	
Send Approval Letter			
VDOT Approved			