



AT&I Systems

ACCESS TECHNOLOGY & INTEGRATION

THE RYAN COMPANIES

West St. Lucie County

Location

Ryan Companies is a heavy construction and mining firm with roots dating back to 1884, when Patrick W. Ryan established himself as an independent contractor serving the railroad industry in the American Midwest. Over more than a century of growth and evolution across four generations of the Ryan family, the organization expanded into highway construction, site development, and mining operations across Wisconsin, Illinois, Indiana, Florida, Virginia, Colorado, and beyond. Today, Ryan Mining specializes in aggregate production and site development, leveraging extensive experience in dragline operations, quarry excavation, crushing, screening, and value engineering to deliver solutions for large-scale construction and mining projects throughout Florida and across the country.

As part of an active mining operation, controlling and monitoring vehicle access across remote site roads is critical to maintaining safety, security, and operational accountability — particularly on access roads where only authorized workers and vehicles are permitted.

Challenge

Ryan Companies needed a reliable way to monitor and document vehicle activity at both the north and south entrances of their Carlton Road mine site. The road was restricted to authorized workers and vehicles only, but without a surveillance system in place, there was no way to track who was accessing the site, identify unauthorized vehicles, or maintain a reliable record of entry and exit activity. The remote, off-grid nature of the location made traditional wired camera systems impractical, requiring a solution that could operate independently around the clock without access to external power or network infrastructure.





Solution

AT&I Systems designed, pre-tested, and installed two fully self-contained remote camera systems — one at the north entrance and one at the south entrance of the Carlton Road mine site — each purpose-built to operate reliably in a remote, off-grid environment.

At each entrance, a 12-foot powder-coated aluminum camera post was installed in the ground with concrete, mounting two Verkada CR63-E remote cameras per pole — one License Plate Recognition camera with integrated IR for capturing clear plate reads in all lighting conditions, and one standard reference view camera for broader site overview. Each system is powered by a 65-watt solar panel with a dedicated solar mount kit, providing continuous 24/7 operation without any external power source. Cellular LTE connectivity keeps both systems online and transmitting at all times. Every system was fully assembled and tested in-house by AT&I prior to installation, ensuring everything was confirmed operational before arriving on site. Verkada's built-in AI analytics automatically track and log license plate numbers, vehicle types, and movement patterns at both entrances — giving Ryan Companies a complete, searchable record of all site access activity and the ability to quickly identify any unauthorized vehicles attempting to enter the property.

Results

The installation gave Ryan Companies a reliable, intelligent, and fully autonomous surveillance solution at both entrances to the Carlton Road mine site. Operating 24/7 on solar power with no external infrastructure required, the systems have performed consistently since installation — providing continuous visibility at one of the company's most remote and access-restricted locations. AI-powered license plate recognition and vehicle tracking give site managers a complete record of every vehicle entering and exiting the property, making it easy to verify authorized access, investigate anomalies, and maintain the level of accountability a restricted mining operation demands.

For a company that has been building and managing complex, large-scale projects for over 140 years, having a security solution that can be deployed quickly, operate independently in challenging environments, and deliver intelligent data without any on-site infrastructure is exactly the kind of practical, reliable solution that Ryan Companies expects.