



Commercial & Industrial Web Based Software

Low-Voltage System Design Services

Inspection-ready designs for mission-critical environments.

Blackhawk Technologies produces high-quality low-voltage design documentation for facilities that demand absolute reliability. From commercial and industrial sites to hospitals, gaming operations, licensed cultivation facilities, and major OSP deployments, our engineering team delivers code-compliant, inspection-ready designs built on industry standards.

Every design is backed by top-tier certifications, deep regulatory knowledge, and real-world installation experience, built for scalability, audit-readiness, and future growth.

Systems we design



Structured Cabling

TIA/EIA-compliant cabling designs that scale, from a single floor to an entire campus



Fiber Optic Backbone

Single-mode and multimode pathways, splice points, terminations, and conduit routing



CCTV & Surveillance

Camera placement, cabling, recording specs, and network architecture with coverage zones



Access Control

Device placement, door hardware coordination, controllers, power, and integrations



Fire Alarm

NFPA 72 and AHJ-compliant device placement, circuits, panels, and notification coverage



BDA & DAS

In-building coverage for first responder radio and public cellular, to IFC and fire code



OSP: Outside Plant

Aerial and underground fiber routing, conduit, pull boxes, splice enclosures, micro-trenching



Wireless & Wi-Fi

AP placement, channel planning, and coverage mapping based on your building and density



Permit-Ready Documents

Detailed, inspection-ready documentation that carries you through permitting

How it works



1. Tell us about the project

Send us the scope, drawings, and requirements. We work with GCs, specialty subs, and facility owners.



2. We engineer the design

Our team produces code-compliant designs built on TIA/EIA, NFPA, and local AHJ requirements.



3. Permit-ready documents

You receive detailed, inspection-ready documentation that supports permitting, installation, and inspection.

Environments we serve

- ✓ Large-scale commercial and government facilities
- ✓ Casino and gaming facilities
- ✓ Schools and higher education
- ✓ Hospitals and healthcare facilities
- ✓ Licensed cultivation facilities
- ✓ Industrial and manufacturing

Every project includes

- ✓ Code-compliant, inspection-ready documentation
- ✓ Permitting and AHJ coordination support
- ✓ Coordination with GCs, subs, and facility owners
- ✓ TIA/EIA and NFPA 72 standards compliance
- ✓ Device placement and pathway documentation
- ✓ Scalable designs built for future growth

See it for yourself

Tell us about your project and we will put together a scope and quote. We support you from concept through permit-ready documentation.

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