



BLACK & VEATCH

# Public Safety

ONE COMPANY — DESIGN TO DELIVERY

BUILDING A WORLD OF DIFFERENCE®  
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BLACK & VEATCH

# Consulting Services

## **CUSTOMIZED SOLUTIONS FOR EVERY CLIENT**

As experts in the full lifecycle of communication systems for public safety agencies, we provide high-quality, independent expertise at every step of the way for our clients. From planning, designing, procuring and implementing the next-generation public safety communications networks to the operations and staffing of communications centers for rapid and efficient response ... we ensure our clients have the communications they need, when they need it.

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**BLACK & VEATCH'S CONSULTING  
EXPERTISE INCLUDES:**

- Interoperable Land Mobile Radio (LMR)
- Broadband and LTE
- Emergency communications/operations centers
- Next Generation 9-1-1

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**THREE-PHASED APPROACH**

Black & Veatch provides the expertise to execute a carefully developed project plan, customized to meet our individual clients' needs. This project plan is typically segmented into three phases with periodic breakpoints that facilitate discussion, review and decision making by key stakeholders before proceeding into the next phase. The three phases are defined below:

**Phase I:** Needs Assessment, Conceptual Design and Budget Estimate

**Phase II:** Development of a System RFP and Vendor Selection

**Phase III:** System Implementation, Acceptance Testing, Project and Construction Management

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**BUSINESS CONTACTS**



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BLACK & VEATCH

# Design-Build

## VALUE ENGINEERING — BUILT TO LAST

Black & Veatch has the reputation of being a valued partner within the telecommunications industry. Our team has deployed more than 100,000 RF communication sites across the country, allowing us to partner with all of the major carriers to deliver turnkey sites nationwide.

We also offer our site development expertise to serve the needs of state and local government agencies. We have years of experience working directly with state and local jurisdictions. Our in-house experts will manage all of your site development needs, from site acquisition to engineering design, regulatory approvals and procurement through project and construction management.



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## BLACK & VEATCH'S DESIGN-BUILD EXPERTISE INCLUDES:

- Site acquisition
- Engineering
- Turnkey site development
- Procurement management
- Site construction

**Regulations.** Our regional offices have site acquisition experts specialized in zoning, permitting and licensing requirements. We have NEPA, SHPO and FCC/FAA certified professionals that can assist with federal licensing. In addition, we have partnerships with the major carriers and tower leasing companies and can assist with tower leases.

**Engineering Experts.** Our certified civil, structural and electrical professional engineers are regionally located and understand the local conditions. We can identify any challenges associated with your sites early in the process and help you select the best sites to meet your coverage needs. This minimizes engineering complications, helping you meet regulatory approval deadlines.

**Cost & Schedule Control.** Black & Veatch promotes the idea of separating out site development in the LMR procurement process and releasing a separate RFP for that portion of the work. By following this approach, the project would be bid properly from the start, decreasing the chance for costly change orders and schedule flux to occur during the project lifecycle.

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## BUSINESS CONTACTS



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BLACK & VEATCH

# Legacy

## NATIONAL FOOTPRINT WITH LOCAL SERVICE!

- Founded in 1915 and headquartered in Overland Park, Kansas
- Over 60 U.S. offices and 110 worldwide offices
- Global workforce of more than 10,000 professionals
- Extensive experience in mission critical communication systems
- Designed and/or constructed approximately 25% of the United States communication infrastructure
- Deployed over 100,000 wireless sites nationwide
- Deployed more than 40,000 miles of optical fiber systems
- Local offices and local talent — meeting regional needs
- Registered engineers in all 50 states
- Ranked “Top Consultant” by *MissionCritical Communications* (2016)
- *Engineering News-Record* (ENR) Rankings (2017)
  - Ranked 1 out of the Top 15 in Telecommunications
  - Ranked 10 in Top 100 Design-Build Firms
  - Ranked 1 out of Top 5 in Towers and Antennae
- Quality assurance and quality control – ISO 9001:2015 certified
- Industry Leading Safety Rating EMR = 0.38





