

Engineering

Smart Design. Transparent Process. Trusted Results.

Every operator is racing toward the same goal: fast, high-quality network deployment, but too many hit the same roadblocks with permitting delays, design rework, and mismatched expectations.

Funding programs like BEAD and RDOF have raised the stakes. Deadlines are tightening, while engineering teams struggle to balance speed, accuracy, and compliance in a landscape that's constantly shifting.

SQUAN's focus is speed to market... with uncompromising quality.

You get a partner who anticipates permitting challenges, adapts to your process, and communicates openly at every step. We offer engineering supported by a culture of self-awareness that fuels ongoing improvement, ensuring each design, decision, and deployment outperforms the last.

With us, you're not outsourcing an engineering task. You're gaining a partner who helps you see the path forward clearly, act confidently, and deliver results that last.

Engineered for Accuracy. Built for Agility.

SQUAN's Engineering Division delivers scalable design services for every stage of network development, from make-ready to as-built, with a model that meets you where you are. As a United States based engineering organization, SQUAN understands the regulatory, permitting, and operational realities that shape American network builds today. Whether you're a Tier 1 carrier, a regional provider, or a new market entrant, we adapt to your processes without the bureaucracy of the big firms or the instability of small startups.

Core Capabilities



✓ Fiber Network Design

High-level and detailed designs, route optimization, and constructability analysis to ensure accuracy and reduce field revisions.

✓ Make-Ready Engineering

Pole surveys, load calculations, and utility coordination that accelerate approvals and eliminate permitting surprises.

✓ Permitting Support

U.S. based permitting with AHJ coordination, DOT-compliant Traffic Control Plans, and regulatory submittals managed from application through approval.

✓ Traffic Control Plans (TCPs)

Custom MOT/TCP design packages for aerial, underground, and ISP field work, with PE-stamped plans available where required.

✓ Field Engineering & Survey

LiDAR, GIS mapping, drone photogrammetry, and subsurface utility locating (SUE) deliver field accuracy and shorten design cycles.

✓ Architecture & Engineering (A&E)

Structural, electrical, and telecom design services backed by licensed professional engineers in all 50 states.



✓ Technology-Driven Fielding

Data collection powered by Trimble LiDAR, ikeGPS, ArcGIS Collector, and Katapult ensures precision and consistency across field teams.

✓ Fiber Design for Funded Programs

Engineering packages tailored for BEAD, built on SQUAN's proven experience delivering RDOF and CAF-funded programs, with complete compliance documentation and milestone tracking.

✓ Systems Management & Records

GIS, CAD, and MicroStation support for design, as-built documentation, and network record integration.

✓ Program Management

Centralized oversight using agile and waterfall methodologies, integrated into SQUAN's proprietary VECTOR™ platform for real-time reporting and visibility.



We Listen & We Hear

Every project begins with an establishment meeting that aligns expectations, deliverables, and standards. We ensure your scope of work matches our understanding, eliminating the gray areas that derail so many projects.



We're Backed by Expertise That Scales

A large, in-house team of engineers, project managers, and licensed PEs delivers national reach with local accountability.



We Partner, Not Just Perform

We see every engagement as a collaboration. Your goals become our goals, and your challenges become our roadmap. We succeed only when you do.



We're Designed for Funded Growth

Experience across BEAD, RDOF, and CAF programs ensures every submittal, drawing, and milestone meets funding compliance and audit standards.



We Learn & Adapt

Our team continuously refines process and performance, identifying gaps before they become issues. That self-awareness makes us more effective, more accountable, and more trusted with every project.



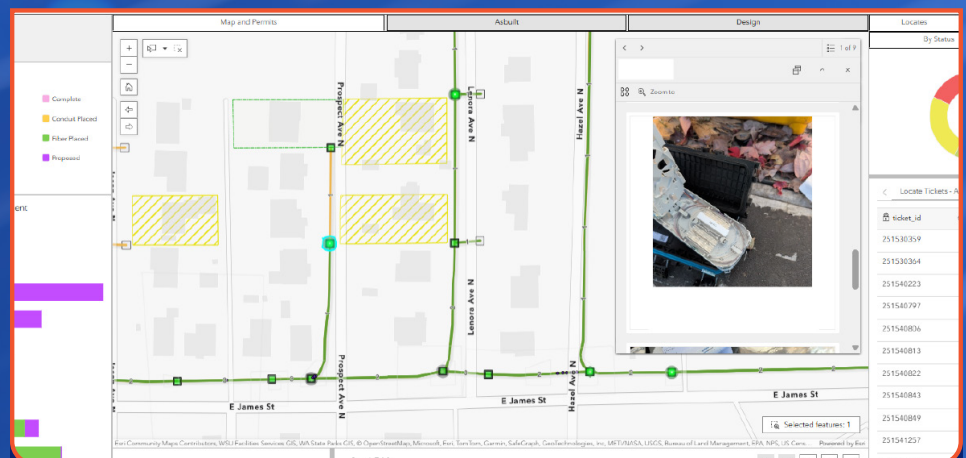
We're Trusted by Top Network Operators Nationwide

SQUAN Engineering supports some of the largest carriers and broadband providers in the U.S., bringing reliability and partnership to every market.

Technology That Drives Accountability

SQUAN integrates every project into **VECTOR™**, our proprietary visibility platforms that connect engineering, permitting, and construction in real time.

You don't have to take our word for it. You can see it. Every task, milestone, and outcome is visible to you and your stakeholders.



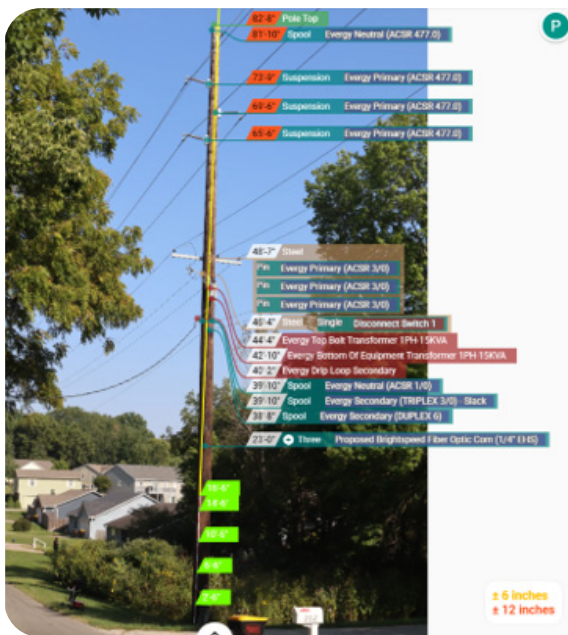
VECTOR maps project progress across every phase, enabling live updates and geospatial visibility.

Proven Where It Counts

For Tier 1 and midsized providers alike, SQUAN delivers the one advantage that matters most: speed to market with quality. Our teams adapt to each client's systems and standards, integrating seamlessly with platforms like ArcGIS, AutoCAD, IQGeo, FROGS, Newtin, Vetro and more to meet aggressive schedules without cutting corners.

With 20+ engineering hubs across 31 states and growing, SQUAN mobilizes wherever your growth demands, combining national scale with local accountability. And you always have direct access to our executive team and senior experts who can make decisions, solve challenges, and accelerate progress in real time.

20+ engineering hubs across 31 states



Clarity Builds Confidence

The smartest engineering projects start with clear communication and end with complete visibility. SQUAN aligns every stakeholder from planners to permitting, to eliminate confusion, reduce rework, and keep builds on track. With accuracy, transparency, and partnership at the core, each SQUAN engineering project becomes easier to manage and faster to deliver.

Turn complexity into clarity with engineering solutions from SQUAN.

SQUAN[™]
Engineered Infrastructure Realized.

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