



Techwave

Techwave established in 2004, is a global end-to-end IT services & solutions company, which develops long-term relationship with clients by leveraging unique delivery models and expert frameworks.

LEADING BROADBAND PROVIDER

About Client:

The client operates a digital wireless and wireline network in Rural & West Virginia, Maryland, New Jersey, and Pennsylvania. According to coverage area, the client is the 21st biggest residential cable provider in the United States, offering cable internet to an estimated 418,000 customers. They specialize in offering cutting-edge services to the disadvantaged and rural areas because they think those communities should receive the same caliber of support as a more affluent metropolis.

Executive Overview:

The results of the customer's partnership have been fruitful, with efficient budgets and novel technology. Techwave has given the entire OSP ENGINEERING, including Planning & Designing, Permit, PLA, and TCP services. Using Google Earth and AutoCAD, we made use of our core domain abilities for planning and developing telecom systems. With our tried-and-true best practices, we efficiently managed massive networks utilizing our holistic approach.



High-Level Design (HLD): It provides a broad overview of the network and a basic explanation of each planned network, including its cables, conduits, poles, cabinets, and structure points.



Field collection: The field crew will gather all the necessary data, including comprehensive KMZ and Katapult data (Strand lengths, Midspans, Pole data, UG structure points, existing utilities, and easement details).



LLD: In order to execute land base work concurrently with the HLD, we must first review the field data that has been supplied, such as Midspan inquiries and Pole information. If any discrepancies are discovered, we must raise a question to the field team. All of the MTUs, MDUs, SFUs, and SUs in the field KMZ will be identified. We'll process our designs utilizing the Split Distribution Architecture and 1:64 ratio Splitters. The field KMZ's MTUs, MDUs, SFUs, and SUs will all be recognized. Utilizing the Split Distribution Architecture and 1:64 ratio Splitters, we process our designs.



PLA: The purpose of the task is to use the Ocalc Pro program in accordance with NESE standards to assess the current utility pole loads based on the inputs from the field and Google Street View. Our team prepares suggestions based on the PLA report as well.



TCP: A contractor utilizes a Traffic Control Plan (TCP) to direct and safeguard traffic flowing through or around a work zone while using written instructions and frequently designed drawings.

Current Status:

So far, we have constructed around 50,000 living units while designing 8 Markets (Suffolk, Roanoke, Williamsburg, Berkeley, Ashland, Harrisonburg, Ocean City, and Salisbury). We have been working with the client for a year and a half. Techwave leveraged 70 professional resources to satisfy the goals and specifications. High-quality designs that complied with TCP, PLA, and permit criteria were delivered. Identifying the proposed network, together with current utilities and county boundaries, is the most crucial step in development. The expertise and the accuracy with which we operate help us create planned networks within deadlines.

Challenges faced by the Client:



Network Architecture Distribution:

The client offers telecom services to vast networks with centralized architecture. They decided to switch to split distribution architecture to enhance accuracy and cut down costs.



Permits and Permissions:

To gather permits and approvals from the county jurisdiction is one of the major challenges faced by the client. This includes aerial and underground network designs that need to adhere to municipal guidelines.



Techwave's Strategy & Solutions:



With the help of **our technical expertise** and **exceptional designers**, we delivered design solutions that helped the client to switch to split distribution architecture seamlessly.



By **adhering** to the relevant Municipality's guidelines, Techwave has made sure to get all the necessary permits and approvals for the client to leap ahead into the construction phase.

Business Impacts:

Techwave created a clear process flow that enabled it to supply huge numbers of living units from each of the designated markets while maintaining high standards of quality, prompt acceptance, and delivery deadline observance. Our team has been successful in following up on employee submissions and feedback to assist with the simplification of activities that helped the client gain trust in us. They have successfully acquired designs and permits by utilizing a variety of strategies to improve efficiency and address the root causes of issues.





Why Choose Techwave?

Techwave, a leading IT solutions organization with headquarters in the USA's Houston, Texas, is reinventing digital transitions. The core of our company is our resources, who work together with our customers to fully grasp their requirements, reduce risks, and manage compliance, thanks to our in-depth understanding of your industry, rules, and difficulties. This makes us deliver sound engineering solutions in economical budget confines.



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