

CASE STUDY



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.

HIGH-SPEED FIBER PROVIDER

About the Client:

Founded in 2018, this company was established to improve upon the limitations of current Internet service providers. They offer fiber Internet services to residential customers in the Greater Houston Area, providing Gigabit Fiber (1000 Mbps) connections which are ten times faster than the average speed of other providers in the area. Despite their faster speeds, their pricing is competitive with other companies in the market. The client offers full fiber-optic service to customers at an affordable price, covering the entire network from the source to the end user.

Executive Overview

The client had to construct a brand-new network from scratch in the region to be serviced. They needed a lot of assistance in the area of planning and design in order to establish a new network, and Techwave has been offering design services since 2020 with the help of Autocad and Google Earth pro. The partnership has produced impressive results with efficient budgets and a fresh wave of innovation. For Fiber optic designs, we made use of our core subject expertise and offered optimum solutions for expedient implementation on the ground.

Planned Network review:

Google Earth review of the intended network was done, and the customer was advised of any missing connections between any planned structures.

Utility and Landbase Data:

Before beginning a design, it was necessary to ascertain the location of any additional utilities and the county's boundaries. We accessed county websites for information on the land base and utilities, and ask for any information that is lacking.

County-based Grouping:

The division of a planned area into several packages according to the county it was located in. With the aid of AutoCAD and other county resources, the designs were done in several forms because each county has its unique criteria.

Design:

Consolidated the landbase, planned network, and utilities on the design using Autocad.



Current Status

Client' design initiative is still going strong, and we are assisting them in many different ways as they widen their network. We are developing a multi-year program that takes a holistic approach to fiber optic network analysis and design. After working with them for more than two years, Techwave has used the best results from more than 30 professional resources to achieve the objectives and criteria. The most important part of designing is identifying the proposed network, coupled with existing utilities and county boundaries. With the help of our skilled professionals, we are able to create a planned network in Autocad with the least amount of clearance from the current utilities.

We accelerated the onboarding of new resources while streamlining the back-filing of primary resources. In order to enable new resources quickly acclimatize to the present streams of processes and be productive right away, we designed an organized process flow for each module documentation.

Client Challenges

This is a fast-growing network in the Texas region. Their network deployments involve vast distances of designing and technical support.

Vast Distance: There was a pressing need to complete 647 miles of design in just 5 months. Laying out designs for large areas is highly challenging with the given time constraints and limited budgets.

Techwave's Strategies & Solutions:

To enable numerous individuals to work on a portion at once, the team has been organized into groups developing a segment.



We Internally assessed the weekly run rate with the desired run rate promptly for quick turnarounds.



Taking necessary actions to fulfill the data collection.



Before we begin the design, we coordinate with the customer on any priority areas and changes to cater to the network designs.



Business Impact

Techwave provided immense assistance in developing network designs. The client may therefore effectively and effortlessly fulfill their design requirements.

We facilitated the following:

Techwave has helped the customer significantly by providing quick designs, handling vast areas, and managing resources effectively in accordance with project objectives.

During extremely tough execution times, we collaborated with over 30 engineers to deploy high-quality designs within tight deadlines.

About 650 miles of design were completed in 4 and a half months with the best quality.



Why choose Techwave?

Techwave has played a key role in supplying the client's third-party with specialized knowledge in specialized fields as well as creative solutions to meet their business-specific demands and increase productivity. We are dedicated to providing clients with a comprehensive range of technological services so they may realize their full potential and expand their business.



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