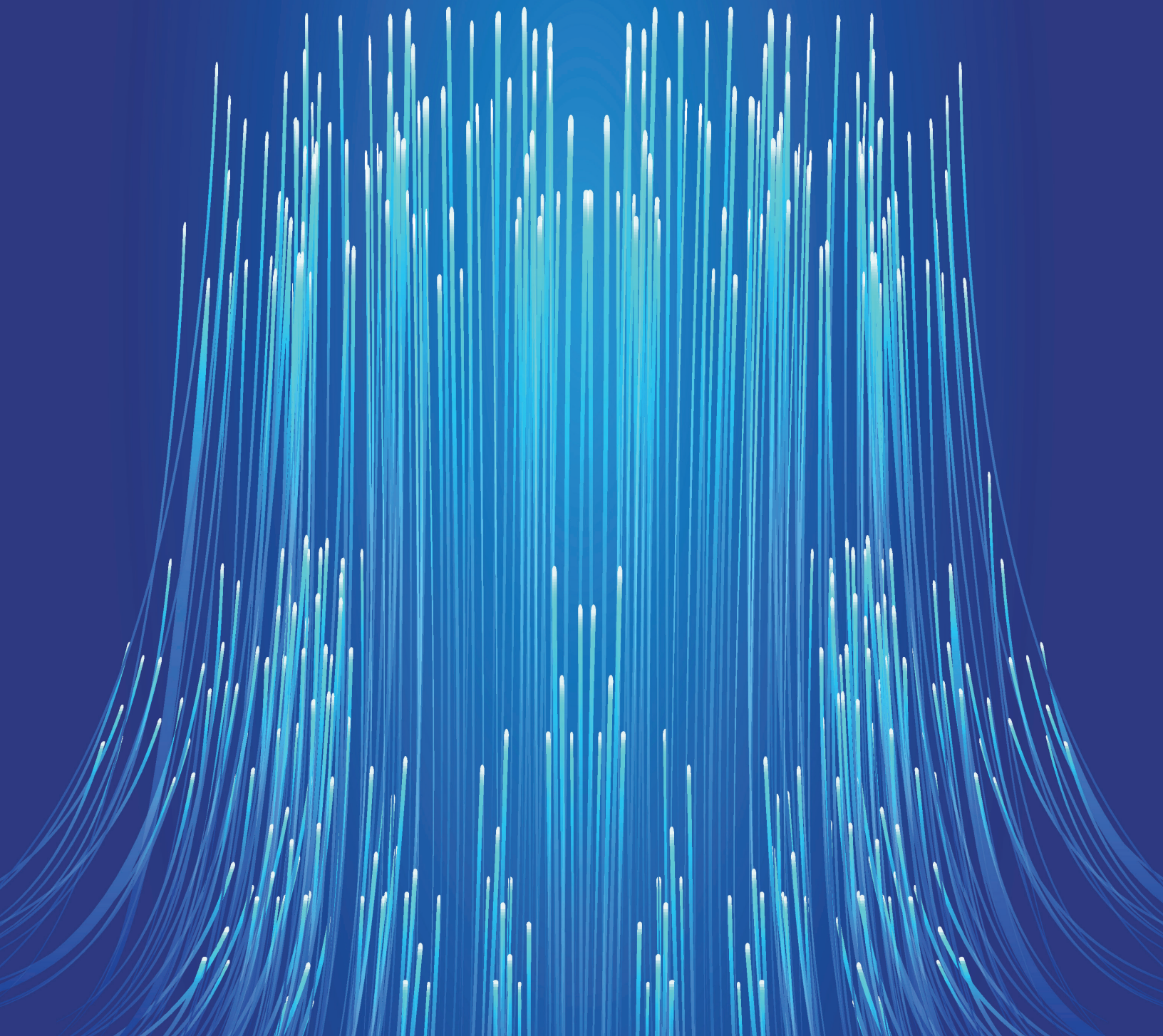
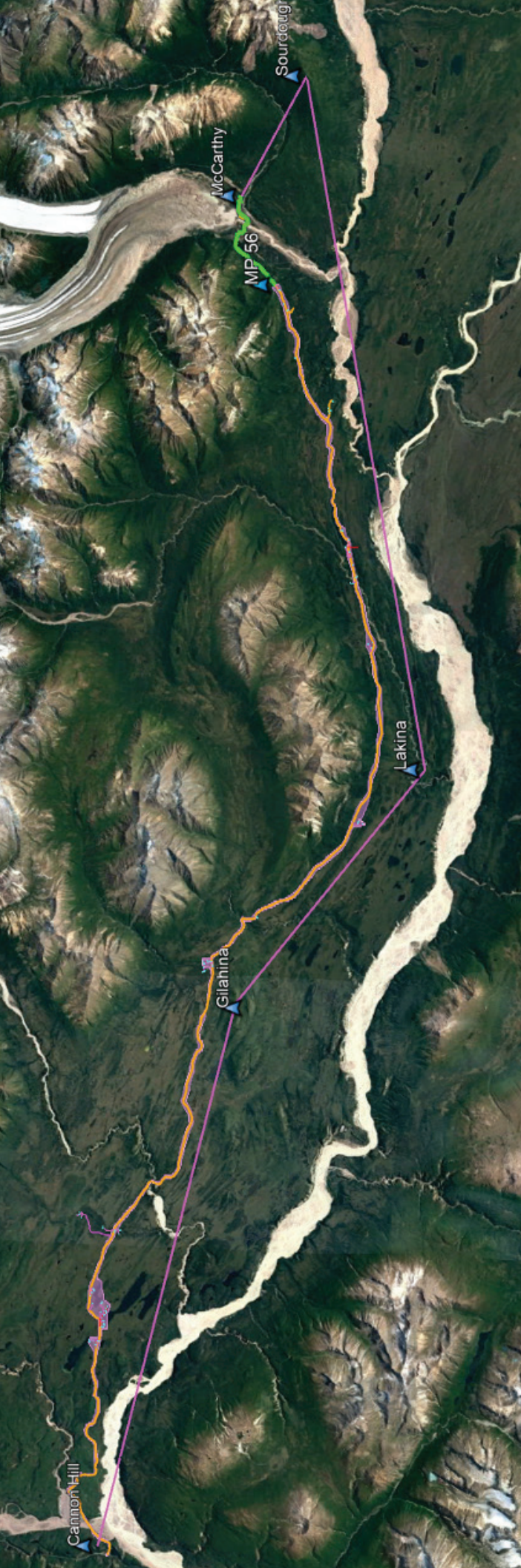


April 2024

THE CVT CONNECTION
CONNECTIONS MATTER

THE FUTURE IN FIBER





BUILDING CONNECTIONS

HOW PUBLIC RIGHTS-OF-WAY SUPPORT FIBER

When fiber internet arrives in rural Alaska, it brings excitement with its promise of fast, reliable connectivity. However, it's important to understand how its installation might impact your property. Fiber internet installation often involves accessing private property through public rights-of-way, which allow utilities like Copper Valley Telecom to build and maintain infrastructure.

Think of public rights-of-way as pathways that utilities can use to install and upgrade essential infrastructure like fiber optic cables. These rights are usually established when properties are purchased, granting permission for necessary work.

They're critical for utilities such as electric co-ops, water systems, and internet providers like CVT to bring high-speed internet to your neighborhood. While CVT can

access these areas for network construction, individual home connections require homeowner consent.

During construction, we make sure to communicate with homeowners and minimize disruptions to properties as much as possible. Residents should be aware though that if you initially decline access but later decide to get our service, there may be installation charges. Rest assured, following the completion of construction, we diligently work to restore any areas that may have been impacted, ensuring they are returned to their pre-construction condition. Our goal is to leave your property just as we found it.

If you have any questions or concerns about public rights-of-way, please don't hesitate to give us a call at 800.235.5414, and select option 6 on the call tree. We're here to help!

MCCARTHY ROAD FIBER-TO-THE-HOME

Copper Valley Telecom is launching a Fiber-to-the-Home project along McCarthy Road, covering the stretch from the Copper River Bridge to Mile 56. Serving over 100 homes and cabins, this initiative will provide a minimum 100/100 Mbps service, this project is funded entirely by the USDA ReConnect 4 grant without requiring matching funds.

However, it's important to note that the project is in its initial stages and is currently pending various environmental impact studies. These studies are crucial for assessing the potential effects of the project on the surrounding environment and ensuring that it is carried out responsibly.

If you reside in the region spanning from the Copper River Bridge to Mile 56, kindly visit our website at www.cvtc.org/mccarthy and fill out the form with your address and contact details.

The McCarthy road project underscores Copper Valley Telecom's commitment to bridging the digital divide in rural areas, making connections that matter for McCarthy residents.



Scan the QR Code for more information.

Left: The proposed Fiber Optic Line is marked by the orange path, while the existing Microwave Path is represented by the purple line.

CVT'S BROADBAND REVAMP

We're excited to share with you Copper Valley Telecom's latest endeavor: the Broadband Revamp project. This project represents a major leap forward in strengthening our telecommunications infrastructure.

Currently, our network relies solely on a single headend in Valdez, which connects to a single upstream provider in Anchorage through a subsea Fiber. However, this configuration presents difficulties in the event of a fiber cut or equipment failure outside of CVT's network, causing service disruptions for customers until resolution is completed.

To address this vulnerability, we're implementing a dual-headend setup. The new headend in Glennallen will connect to a secondary upstream provider via the Glenn Highway. Utilizing a secondary upstream provider offers an additional internet connection, significantly reducing the risk of disruptions caused by fiber cuts, or equipment failure outside the state of Alaska.

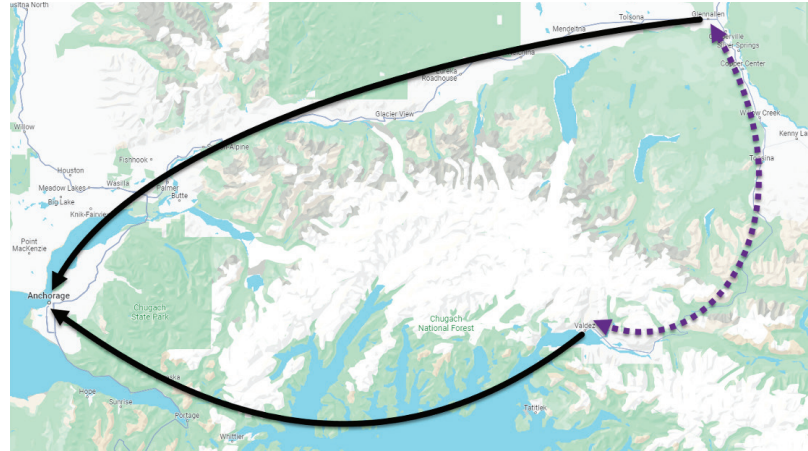
This strategic enhancement better equips the cooperative to maintain a consistent service quality, which was not previously possible with a single upstream provider. Adding an additional headend in Glennallen with redundant carriers and diverse routes outside of the state of Alaska provides additional protections for CVT's network that will better serve and keep members connected.

Furthermore, as part of our commitment to improvement, we're transitioning to self-hosting our own IP addresses. This move

resolves past issues tied to leased addresses, ensuring greater control and reliability over our network infrastructure.

With these enhancements in place, our network will undergo significant strengthening, bolstering redundancies and even laying the groundwork for us to potentially offer higher speeds in the future!

As we embark on this journey, we want you to know that your satisfaction and seamless experience are our top priorities. We're here to provide ongoing assistance and guidance throughout this transition period. Our aim is to deliver unparalleled connectivity and service excellence, ensuring reliable communication for all our valued customers. Together, we're making connections that matter.



RESILIENT CONNECTIVITY

When it comes to internet connectivity, reliability is critical, particularly when facing adverse weather conditions. While fiber internet is renowned for its speed, its resilience during inclement weather isn't as well known.

Much like CVT's traditional copper lines, fiber is touted for its underground installation, shielding it from environmental factors. This ensures uninterrupted connectivity, even during storms. The underground placement offers insulation against temperature fluctuations, guaranteeing stability throughout the year.

Another significant advantage fiber has over other forms of internet technology is the composition of the materials it uses, which makes it much less susceptible to electromagnetic interference (EMI), which occurs when an outside source, interrupts the normal flow and transmission of electrical signals. Unlike fiber, cable internet uses coaxial cable, which is comprised of a metal-based (copper) wire. Copper-based coaxial cable can be easily influenced by nearby electromagnetic energy—including some very common sources that are probably in your home! These include mundane household items like microwave ovens, but also nearby power lines and even electrical motors.

For internet users, EMI can lead to service disruptions, slowdowns, distortions, or even crashes of your internet. And bad weather is the worst time for downtime! No one wants to be stuck at home without

the connection they need to check in on loved ones, get weather reports, or keep the kids entertained.

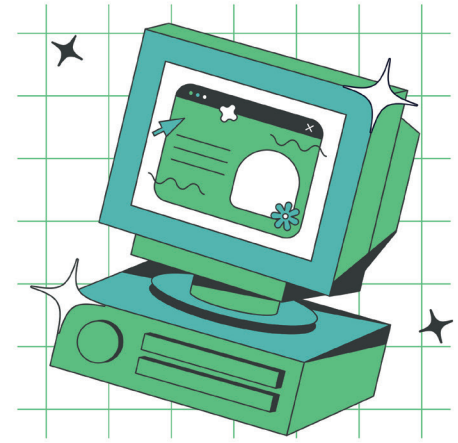
Rather than relying on copper wires, fiber optic lines consist of many tiny hairs of thin glass, which transmit internet signal at nearly the speed of light. Thus, because it is composed of glass (rather than metal), fiber internet simply isn't affected by EMI from appliances, power lines, or even the weather like coaxial cable internet is.

Additionally, fiber's flexibility sets it apart. Unlike copper wiring in traditional cable lines, fiber optic lines can bend without damage, ensuring connectivity during extreme weather events like flooding or heavy snowfall.

At Copper Valley Telecom, we prioritize reliability and our expansion and revamp of our fiber network is helping to make connections better for everyone.



WE ARE HIRING A MARKETING ASSISTANT



- ❖ Analyze data to shape marketing strategies.
- ❖ Manage website content and maintain brand identity.
- ❖ Be a point of internal and external communication.
- ❖ Design content for ads, promotions, and even newsletters like this!

UPCOMING EVENTS

ANNUAL MEETINGS: Come join us on May 7th in Glennallen and May 9th in Valdez for an opportunity to connect with the Board and staff, discover our tech showcase, enjoy a delicious meal, win exciting prizes, and, above all, learn more about the thrilling developments underway at Copper Valley Telecom.

Visit www.cvtc.org for more information.

The CVT Connection

Enter to Win a \$50 Account Credit

April 2024

WORDSEARCH

Locate the given words in the grid, running horizontally, vertically, or diagonally.

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| S | Q | H | I | A | J | G | L | M | B | L | H | R | J | M | T | Q | P | S | Q |
| O | H | W | P | X | N | S | P | H | C | P | K | Y | O | K | N | N | W | C | N |
| U | V | Y | P | L | L | F | Z | G | H | C | V | H | C | A | V | O | Y | V | J |
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|-------------|--------------|----------------|--------------|
| 1. Fiber | 3. Broadband | 5. Connections | 7. Marketing |
| 2. Internet | 4. McCarthy | 6. CVT | 8. Hiring |

Solve the crossword, tear off, then mail or drop off at the Glennallen or Valdez business office. Return by the 10th of the month to ensure your entry is included in the monthly drawing. Congratulations to the last issue's winners, **DAVID BRUSS** (Glennallen) and **JOHN FISCLER** (Valdez). **REMEMBER TO FILL IN YOUR NAME!**

Name: _____ Phone: _____

