



**Your Community Internet Provider**

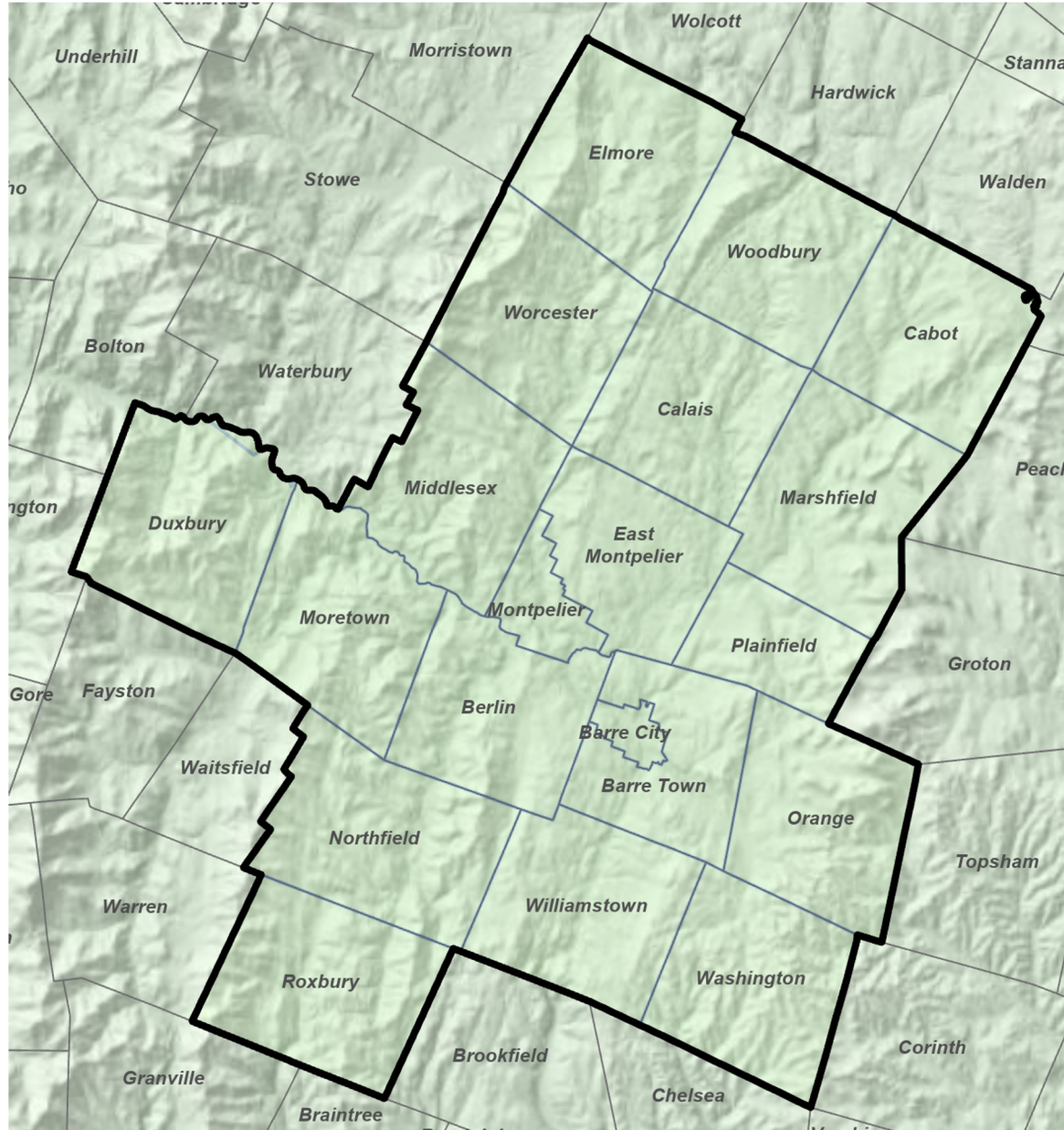
Moretown Selectboard Update – June 7, 2021

[cvfiber.net](http://cvfiber.net)

# CVFiber Communities



**Barre City  
Barre Town  
Berlin  
Cabot  
Calais  
Duxbury  
East Montpelier  
Elmore  
Marshfield  
Middlesex**



**Montpelier  
Moretown  
Northfield  
Orange  
Plainfield  
Roxbury  
Washington  
Williamstown  
Woodbury  
Worcester**

# Broadband ROI is Big



“A recent independent study of EPB Fiber [a Chattanooga, TN power and telecommunications district] found that the celebrated city-owned fiber network has delivered Chattanoogaans a \$2.69 billion return on investment in its first decade.”

<https://muninetworks.org/content/knoxville-utilities-board-marches-toward-ftth-network>

<https://muninetworks.org/content/study-finds-chattanooga-fiber-network-10-year-roi-269-billion>

[https://assets.epb.com/media/Lobo%20-%20Ten%20Years%20of%20Fiber%20Infrastructure%20in%20Hamilton%20County%20TN\\_Published.pdf](https://assets.epb.com/media/Lobo%20-%20Ten%20Years%20of%20Fiber%20Infrastructure%20in%20Hamilton%20County%20TN_Published.pdf)

# The Need is Great



## Moretown Premises by Broadband Access

Speeds	Approximate Number of Premises
< 25/3 (Underserved)	66 (38%)
25/3	81 (46%)
100/100 (Our goal)	28 (16%)

(Moretown has it better than many other communities, thanks to our great provider in WCVT)



# CVFiber Network At-a-Glance



- Miles: Approximately **1,300** miles long
- Premises: Fiber to **26,000** premises
- Cost: Estimated **\$46 million**



# What We've Done So Far

- ✓ Contracted for feasibility study and business plan
- ✓ Designed our phased network build strategy, targeting **Underserved**
- ✓ Approved for rounds of grants, helping to fund projects in Moretown, Roxbury, and Calais+East Montpelier
- ✓ Worked toward pre-approval of \$4m VEDA loan

All necessary prerequisite work before starting to build.

Now we are ready to build.

# Process to Build Network



## **Pole Inventory**

An audit of all of the poles, their location, and how they interconnect.

## **Network Design**

Creating the design of how the fiber is routed throughout the network, where redundancies are added, etc.

## **Make Ready**

Preparing the poles to actually take the fiber.

## **Construction**

Wiring the fiber and adding all of the ancillary requirements (routing equipment, power, etc)

## **Drops**

Wiring from the on-pole fiber network to residences and businesses.

# CVFiber Network Cost Estimates



Overall Network will cost ~\$46M

Moretown will cost ~\$2M

## CVFiber Network Cost Estimates

1			Pre-Construction			Construction	Operations	Costs
2	Premises	Miles	Pole Data	Design	Make-Ready	Construction	Drops CPE	Total
3	25,640	1,131	\$784,000	\$784,000	\$6,516,000	\$28,658,000	\$9,119,000	\$45,861,000
4	Costs Per Mile		\$693	\$693	\$5,761	\$25,339	\$8,063	\$40,549

CVFIBER BUILDOUT		Pre-Construction			Construction	Operations	Costs
Town	Miles	Pole Data	Design	Make-Ready	Construction	Drops CPE	Total
Moretown	48.7	\$ 33,749	\$ 33,749	\$ 280,561	\$ 1,234,009	\$ 392,668	\$ 1,974,736

# CVFiber Construction Schedule



## **First Priority: The Underserved**

Provide a core service ring targeting presently Underserved routes

- Construction 2021 – 2023
- Service begins 2022

## **Second Priority: Buildout From the Core**

Provide service throughout CVFiber towns

- Construction 2023 – 2025
- Service begins 2023

# ARPA Grant Funds



Investments in broadband infrastructure is one of the approved categories of uses for ARPA funds.

CVFiber is expected to receive some direct ARPA grant funds, however the amount and the timing are as yet uncertain.

Towns are also expected to receive ARPA grant funds for various uses, including broadband.

- Town ARPA funds will come directly (Town \$) and indirectly (County \$ that will be distributed to towns).
- Towns are to receive half their Town \$ in 2021, the other half in 2022; while all the County \$ is expected in 2021.
- Altogether the 20 CVFiber member towns are expected to receive about \$16.5M in Town and County ARPA grant funds.



**ARPA Local Government Funding Estimate**

		<b>Local \$</b>	<b>County \$</b>	<b>Total \$</b>	<b>2021</b>	<b>2022</b>
1	Barre City	\$ 843,460	\$ 1,891,157	\$ 2,734,617	\$ 2,312,887	\$ 421,730
2	Barre Town	\$ 763,545	\$ 1,641,378	\$ 2,404,923	\$ 2,023,150	\$ 381,772
3	Berlin	\$ 275,054	\$ 609,378	\$ 884,432	\$ 746,905	\$ 137,527
4	Cabot	\$ 141,730	\$ 337,044	\$ 478,774	\$ 407,909	\$ 70,865
5	Calais	\$ 158,643	\$ 368,240	\$ 526,883	\$ 447,562	\$ 79,322
6	Duxbury	\$ 129,071	\$ 290,882	\$ 419,953	\$ 355,417	\$ 64,535
7	East Montpelier	\$ 252,306	\$ 553,309	\$ 805,615	\$ 679,462	\$ 126,153
8	Elmore	\$ 85,355	\$ -	\$ 85,355	\$ 42,677	\$ 42,677
9	Marshfield	\$ 145,687	\$ 339,995	\$ 485,682	\$ 412,838	\$ 72,843
10	Middlesex	\$ 170,512	\$ 361,706	\$ 532,218	\$ 446,962	\$ 85,256
11	Montpelier City	\$ 729,126	\$ 1,674,471	\$ 2,403,597	\$ 2,039,034	\$ 364,563
<b>12</b>	<b>Moretown</b>	<b>\$ 164,676</b>	<b>\$ 367,397</b>	<b>\$ 532,073</b>	<b>\$ 449,735</b>	<b>\$ 82,338</b>
13	Northfield	\$ 645,057	\$ 1,283,677	\$ 1,928,734	\$ 1,606,205	\$ 322,528
14	Orange	\$ 110,081	\$ 187,041	\$ 297,122	\$ 242,081	\$ 55,040
15	Plainfield	\$ 124,818	\$ 259,686	\$ 384,504	\$ 322,095	\$ 62,409
16	Roxbury	\$ 70,123	\$ 150,922	\$ 221,045	\$ 185,984	\$ 35,062
17	Washington	\$ 99,894	\$ 202,935	\$ 302,829	\$ 252,882	\$ 49,947
18	Williamstown	\$ 349,134	\$ 197,120	\$ 546,254	\$ 371,687	\$ 174,567
19	Woodbury	\$ 87,333	\$ 186,966	\$ 274,299	\$ 230,632	\$ 43,666
20	Worcester	\$ 101,674	\$ 220,691	\$ 322,365	\$ 271,528	\$ 50,837
	<b>Total</b>	<b>\$ 5,447,277</b>	<b>\$ 11,123,995</b>	<b>\$ 16,571,272</b>	<b>\$ 13,847,633</b>	<b>\$ 2,723,638</b>



Any funds provided to CVFiber that are not in the form of a loan (thus reducing debt servicing) will directly lower our subscription rates, benefitting our communities

# Our Ask



Short-term: **\$67,498** to cover both Pole Inventory and Design steps

Longer-term: We estimate we will face an approximate \$1M shortfall in Moretown. Any additional funding that the Moretown Selectboard deems worthwhile to be appropriated toward CVFiber.

# Next Steps



- Board discussion, Q&A, consideration
- If approved, draft & sign MOU (we have draft in works)



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