

MARROWSTONE WIRELESS

Hybrid Networks

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March 2, 2018

Next month we start our 4th year of operations as Marrowstone Wireless. Not only that but, it will also be our 2nd year in operations of Fiber To The Home (FTTH) systems integrated with our Microwave service that most Island folks are familiar.

With 127 Marrowstone Island homes served via our network of microwave Access Points we came to the point that to reach more homes required integrating FTTH into our network. Thus, last year we added the "Hybrid Networks" tag to the name. You may have seen our truck signs.

Over this past year, we have trained in the fine art of Fiber splicing and operation of a "bucket truck." Our very first FTTH live service was made on the 4th of July, 2017. Since then we have completed installation of the Fiber neighborhood main line cable on the Jefferson County PUD power poles around the Griffith Point Road loop. By April we will have this Fiber mainline out to Flagler Road ready to be connected to our soon to be installed BackBone Fiber cable that will be carried on the PUD poles the full length of Flagler Road. At the south end this Back Bone cable will connect to the PUD/NoaNet existing Fiber feed. On the north end our Back Bone cable will connect to our existing Microwave source from Whidbey Island. This Marrowstone Wireless Back Bone cable will carry both of these bandwidth sources to all 10 Neighborhood Fiber Head-Ends (let's call them FiberHoods) that are currently planned to cover the entire Marrowstone Island area.

The existing Griffith Point Road FiberHood will be the first such operational FTTH point to be fed from the new Back Bone cable on Flagler. Each one of these FiberHoods has automatic fail-over built in so that if a car or weather takes out our Fiber source the Microwave source takes over until the Fiber source is restored when it automatically switches back to the Fiber source.

As of this date the currently operating Griffith Point Road FiberHood is running just on the Microwave source (which is just fine as it is not very susceptible to weather or car outages...). We actually have 9 live FTTH connected homes with one of those FTTH home sites also driving four remote Microwave-served homes proving our fully Hybrid Networking capabilities.

We also have a waiting list today of 8 new FTTH connections on Griffith Point Road. By the end of March we should have over 20 total FTTH installations in this first of 10 FiberHoods.

Be the way, each FTTH install is different from any other requiring much time and effort working with each homeowner. Building Fiber infrastructure is time consuming and needs rare skills both in technology and in human communications. Thank you for being patient as we work to build solid, long-term, high-speed Internet Access on Marrowstone Island! By the way, currently, we supply 25% of the existing homes with high speed Internet service on the Island. As we grow, we accelerate our rate of growth naturally... Again, thank you for being patient!

Peace, David

David G. Brader, President
MACaid, Inc. dba Marrowstone Wireless