



KANAWHA COUNTY
POLICE | FIRE | EMS

Metro Emergency Operations Center
of Kanawha County

200 Peyton Way, Charleston, WV 25309

304.746.7911 ph

304.746.7914 fax

www.metro911.org

Steve Rubin, ARP Facilitator
407 Virginia Street, East
Charleston, WV 25301

June 14, 2021

Dear Mr. Rubin,

At Metro 911, we are committed to providing the highest level of public safety services to our community. In order to uphold this commitment, I would like to discuss the possibility of receiving funding for a project to buildout fiber to the Malden Mountain WV SIRN Tower through the American Rescue Plan. We respectfully request your assistance with the following project with total funds needed of approximately \$275,000.

Project: Fiber Buildout to Malden Mountain WV SIRN Tower

Malden Mountain in eastern Kanawha County is home to the WV State Interoperable Radio Network (WV SIRN) Zone 2 Core. Metro 911 recently implemented a new radio system that employs a direct connection into the SIRN core equipment at Malden Mountain, which is currently being done via microwave. While microwave was the original connection method preferred by SIRN, microwave is inherently susceptible to atmospheric interference via high winds, heavy rain, snow, or ice accumulation. To mitigate this, Kanawha County Metro 911 is proposing construction of fiber infrastructure into the Zone 2 Core equipment at Malden Mountain. Building out fiber to the Malden Mountain SIRN site would allow not only for a physical fiber connection for Metro 911's radio system, which would increase performance, offer higher bandwidth, and reduce latency, but it would allow the implementation of a first-in-state level of redundancy regarding SIRN connections. This would increase the overall reliability of Metro 911's radio system, which would enhance our abilities to serve the public and first responders that utilize the SIRN radio system.

Additional benefits of this proposed project, beyond the scope of Metro 911, would be two-fold. First, any home or business interested in commercial-grade fiber internet service along the proposed buildout path on Georges Creek Dr (and including small portions of Malden and Rand) would save in potential buildout costs of their own, should they seek such service. Metro 911's proposed buildout would include five new splice points, which would each allow for connections within 4,000 ft radius. While this would initially be limited to commercial-grade services, Frontier believes that residential-oriented fiber services *may* be offered in the future, though that does remain unclear.

Secondly, the new data connections available via this proposed buildout could be leveraged by anyone seeking such services to the towers located on Malden Mountain – not only the SIRN tower, but other media and radio tower facilities located in this area. This would include any other users within SIRN Zone 2 wishing to establish direct connection to the core equipment. Currently, there are twenty-two

county 911 centers that fall within Zone 2, and whose residents and users could leverage such connection options to enhance the services they provide.

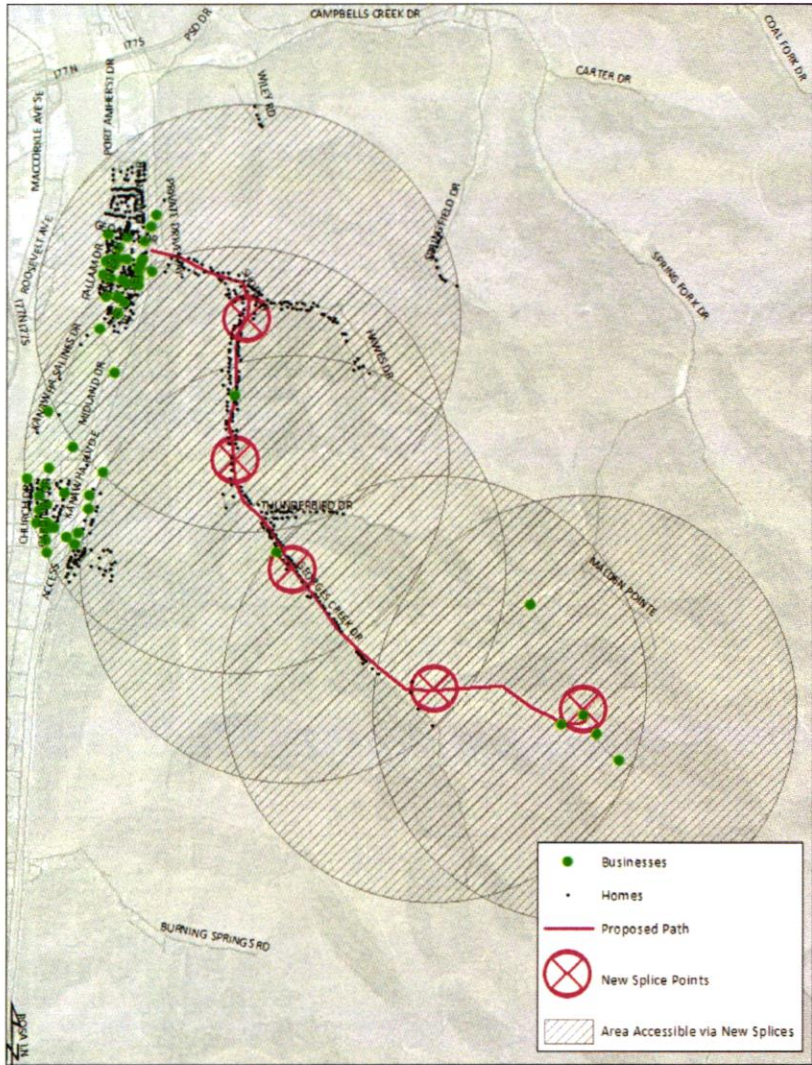
Projected Costs –

- Frontier Fiber Installation – approx. **\$135,000** (90-120-day projected turnaround for installation)
- Motorola Hardware and Services – approx. **\$140,000** (150-day turnaround due to chip shortages)
- Total Initial Cost - **\$275,000**
- *Recurring Monthly Fee for P2P Fiber Service for Metro 911 – approx. \$800-1,200*

Potential Benefit Highlights -

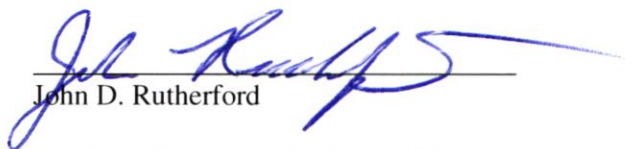
- Kanawha County agencies using SIRN system
 - Homeland Security
 - Metro 911
 - Belle Police Department
 - Charleston Fire Department
 - Charleston Police Department
 - Chesapeake Police Department
 - Cedar Grove Police Department
 - Clendenin Police Department
 - Dunbar Fire Department
 - Dunbar Police Department
 - East Bank Police Department
 - Kanawha-Charleston Health Department
 - Kanawha County Ambulance Authority
 - Kanawha County Park Police
 - Kanawha County Sheriff's Department
 - Kanawha County Volunteer Fire Departments (x27)
 - Kanawha Region Transit Authority
 - Kanawha Valley Senior Services
 - Glasgow Police Department
 - Marmet Police Department
 - Metro Drug Unit (MDENT)
 - Nitro Police Department
 - South Charleston Fire Department
 - South Charleston Police Department
 - St. Albans Fire Department
 - St. Albans Police Department
 - Yeager Airport
- Approx. 600 residences within 4000' radius of new path
- Approx. 70 businesses within 4000' radius of new path
- Potential for residential services in 3-5 years, but not guaranteed (Per Frontier)
- Counties falling within SIRN Zone 2
 - Kanawha
 - Roane
 - Jackson
 - Mason
 - Cabell
 - Wayne
 - Logan
 - Mingo
 - McDowell
 - Lincoln
 - Boone
 - Putnam
 - Fayette
 - Clay
 - Nicholas
 - Greenbrier
 - Wyoming
 - Raleigh
 - Calhoun
 - Monroe
 - Summers
 - Mercer

Map of Proposed Project –



Thank you for your time and consideration.

Respectfully,


John D. Rutherford

c/c: Jennifer Herrald, County Manager
Andrew Gunnoe, Deputy County Manager & Asst. County Attorney, AICP