

Executive Summary

1 Project Overview

The FTTH Danville Mutual Telephone Company project will provide broadband services to households, businesses, and key community organizations within the target service area. This will create the potential for increased business growth, public services, public safety, and quality of life.

For this project, Danville is proposing to construct a Fiber to the Home (FTTH) outside plant and electronics infrastructure. This architecture will allow for the highest quality and the broadest range of telecommunications services that are available today, as well as, the maximum broadband capabilities to their subscribers.

Danville has a proven reputation of deploying applications that can reduce operating costs, increase services, improve customer satisfaction and increase revenue generation. It is led by experienced key staff that can manage their established organization to successfully implement and operate the proposed broadband infrastructure.

The overall total cost of the project is \$2,765,550 with \$414,832.50 requested in grant funding.

2 Geographic Area

The project will include the construction of FTTH infrastructure in rural areas around the town Danville. As shown in Exhibit B, the target service area includes 223 census blocks which cover 51.11 square miles and passes 324 broadband units.

3 Deployment Model

Danville intends to build a FTTH architecture to serve the subscribers within the target service area. The proposed FTTH electronics enables the provision of peak data speeds up to a 1 Gbps data service. The management system utilized for the proposed network provides Danville with visibility into the total bandwidth utilization and Danville will have the ability to easily update the network to ensure that the end users do not experience congestion.

4 Timeline

The following is an overview of the preliminary timeline milestones.

Project Objectives and Activities	2020				2021			
	Qtr. 1	Qtr. 2	Qtr. 3	Qtr. 4	Qtr. 1	Qtr. 2	Qtr. 3	Qtr. 4
OSP RFP / P&S Maps	x				x			
OSP RFP Approval		x				x		
Send RFP to Vendors		x				x		
Review OSP RFP Responses / Award		x				x		
Pre-Construction Meeting		x				x		
Construction		x	x	x		x	x	x
Fiber Splice and Test				x				x
Electronics Order		x				x		
Electronics Ship			x				x	
Miscellaneous Equipment Install			x				x	
Electronics Equipment Install			x				x	
Equipment Turn Up / Test				x				x