

Executive Summary

1 Project Overview

The FMTC-I35 d/b/a OmniTel Communications FTTH Rural Broadband Expansion 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, FMTC-I35 (OmniTel) 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.

OmniTel 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 \$339,720.00 with \$50,958.00 requested in grant funding.

2 Geographic Area

The FTTH Rural Broadband Expansion will include the construction of FTTP infrastructure in rural census blocks in the counties of Madison and Warren.

As shown in Exhibit B, the target service area includes 12 census blocks which cover 4.3 square miles and passes 32 broadband units.

3 Deployment Model

OmniTel intends to build a FTTH architecture using Gigabit passive optical network (GPON) technologies to serve the subscribers within the target service area. The proposed FTTP electronics enables the provision of peak data speeds up to a 1 Gbps data service. The management system utilized for the proposed network provides OmniTel with visibility into the total bandwidth utilization on each PON and OmniTel 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				2022			
	Qtr. 1	Qtr. 2	Qtr. 3	Qtr. 4	Qtr. 1	Qtr. 2	Qtr. 3	Qtr. 4	Qtr. 1	Qtr. 2	Qtr. 3	Qtr. 4
OSP RFP / P&S Maps	x				x				x			
OSP RFP Approval		x				x				x		
Send RFP to Vendors		x				x				x		
Review OSP RFP Responses / Award		x				x				x		
Pre-Construction Meeting		x				x				x		
Construction		x	x	x		x	x	x		x	x	x
Fiber Splice and Test				x				x				x
Electronics Order		x				x				x		
Electronics Ship			x				x				x	
Miscellaneous Equipment Install			x				x				x	
Electronics Equipment Install			x				x				x	
Equipment Turn Up / Test				x				x				x