

Herriman City

FIBER NETWORK OVERVIEW Presented by Bart Angus

Strata Networks

Preliminary Plans & Timelines







LEGEND

Current High Level Design Agreement Analysis and Contract Procurement Future Design & Construction Agreement Future Network Operations Agreement

Project Summary Timeline





Typical Fiber Distribution Area Build Premises Drops & Installation Schedule



LEGEND

Construction





FTTH STANDARD INDOOR INSTALL - SINGLE RESIDENCE

HERRIMAN CITY FIBER

Cost Modeling

Herriman Cost Modeling

Buried Construction Option A



Minimum # of Subscribers for Estimated Monthly Bond Payment9441Minimum Take Rate for Estimated Monthly Bond Payment47%

Buried Construction Option B

CONSTRUCTION METHODOLOGY

Directional Drilling			90%	
Microtrenching ASSUMPTIONS			10%	
Utility Fees Residential - \$15 Business - \$30	Opt-Out Percentage 5%	Bond Term Interest Years - <mark>30</mark> Interest - <mark>8</mark>	A Reta	ail Rates & Rate Mix 1 Gbps - \$85 250 Mbps - \$75 mix of 1 Gbps & 250 Mbps

Utility Fiber Infrastructure Model

Estimated Initial Fiber-Optic Network Infrastructure Cost	\$71,253,013.00
Bond Term (Years)	30
Bond Interest Rate	8%
Estimated Monthly Bond Payment for Infrastructure (Year 4)	\$595,253.61
Estimated Monthly Utility Fee Revenue (Year 4)	\$289,161.00
Minimum # of Subscribers for Estimated Monthly Bond Payment	13025
Minimum Take Rate for Estimated Monthly Bond Payment	65%

Herriman Cost Modeling

Microtrenching Construction Option A



Utility Fiber Infrastructure Model

\$60,323,809.00	Estimated Initial Fiber-Optic Network Infrastructure Cost	
30	Bond Term (Years)	
5%	Bond Interest Rate	
\$352,710.81	Estimated Monthly Bond Payment for Infrastructure (Year 4)	
\$289,161.00	Estimated Monthly Utility Fee Revenue (Year 4)	
4707	Minimum # of Subscribers for Estimated Monthly Bond Payment	
24%	Minimum Take Rate for Estimated Monthly Bond Payment	

Microtrenching Construction Option B

CONSTRUCTION METHODOLOGY

Directional Drilling			10%
Microtrenching ASSUMPTIONS			90%
Utility Fees Residential - \$15 Business - \$30	Opt-Out Percentage 5%	Bond Term & Interest Years - 30 Interest - 8%	Retail Rates & Rate Mix 1 Gbps - \$85 250 Mbps - \$75 50/50 mix of 1 Gbps & 250 Mbps

Utility Fiber Infrastructure Model

\$60,323,809.00	Estimated Initial Fiber-Optic Network Infrastructure Cost	
30	Bond Term (Years)	
8%	Bond Interest Rate	
\$503,950.13	Estimated Monthly Bond Payment for Infrastructure (Year 4)	
\$289,161.00	Estimated Monthly Utility Fee Revenue (Year 4)	
9140	Minimum # of Subscribers for Estimated Monthly Bond Payment	
46%	Minimum Take Rate for Estimated Monthly Bond Payment	

Fiber Network Construction





Microtrenching

Microtrenching offers significant benefits over traditional excavation methods by minimizing disruption and decreasing construction timelines. Using a diamond-tipped large circular saw to cut a narrow trench, the conduit is installed in the bottom of the trench, backfilled with a concrete/flowable fill mix, and then sealed.







Directional Boring

Directional boring is a trenchless technique used to install underground utilities like pipes, conduits, and cables. This method involves using a surfacelaunched drilling rig to create a shallow arc or radius along a designated underground route. Unlike traditional cut and cover methods, directional boring causes minimal disruption to the surface and offers significant environmental benefits. It's particularly useful when conventional trenching or excavation isn't feasible or when the goal is to minimize surface disturbance.

Fiber Shelters

A fiber shelter is a structure designed to house critical fiber-optic electronics and equipment. This hut provides a secure and controlled environment to safeguard and maintain the optimal performance of sensitive fiber components. By regulating temperature, humidity, and other environmental factors, the fiber shelter ensures the longevity and reliability of the equipment, thereby contributing to the seamless functioning of modern communication networks and technologies.



