Fiber for Utility Use

and other Tenants too

May 2016
History

• In 1999 first fiber installed
• Used for internal purposes about 100 miles
• Expanding Fiber for Utility Use
• Study to determine options
  – Competed in June 2014
  – Fiber to the Home (too expensive)
  – Fiber to Commercial (other companies started)
  – Fiber for Governmental/Utility Use (Decision)
• Mayor sent out RFI December 2014
• Over several Months of 2015 current plan developed
Plan

• Install Fiber system to serve Utility needs
• Backbone with communication huts
• Install enough for growth
• Anticipate excess fiber capacity in Network
• Purpose to serve own use
• Cost around $57 Million
• Over next 3.5 Years
Dark Fiber Technical Specifications

DIAGRAM 1

Interconnection Fiber

Total Ring Fiber Length <140Km

<20Km
Dark Fiber Technical Specifications

Diagram 2

- 20Km Max Passive Plant
- Configuration #3: Aggregated Fiber, 1:32 split max (Lessor owned)
  - Tenant Owned Drop Equip.
- Colocation Structure
- NAP
- MST
  - Tenant Owned Drop Equipment
- Configuration #2: Dedicated Fiber (Lessor owned)
  - SFU
  - MDU
6 HUT Sites & 2 Aggregation Sites

- HUT 1 – Farley
- HUT 2 – Big Cove
- HUT 3 – Chase
- HUT 4 – 911
- HUT 5 – Jetport
- HUT 6 – Tenth Street
- 1st Agg. Pt. – Cummings Research Park
- 2nd Agg. Pt. – Downtown Huntsville
Potential Fiber HUT Locations