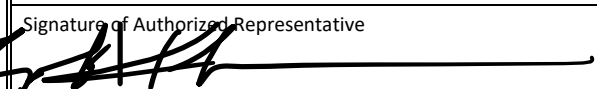


# BROADBAND EXPANSION GRANT APPLICATION

## For Fiscal Year 2022

 Public Service Commission of Wisconsin  
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|  |  |                      |
|--|--|----------------------|
| Primary Applicant (Name and Address):<br><br>TOWN OF DRAPER<br>6994N Main St.<br>Loretta, WI 54896   | Applications MUST be UPLOADED to ERF via the Commission's website, <a href="http://psc.wi.gov/apps35/ERF_upload/content/mymenu.aspx">http://psc.wi.gov/apps35/ERF_upload/content/mymenu.aspx</a> . Refer to section 2.3 for detailed instructions.<br><br>Applications are due and MUST be uploaded to ERF no later than: <b>March 17, 2022</b> at 4:00pm (16:00) Central Time. <b>Late applications will not be accepted.</b> |                      |
|  | Contact for further information:<br><a href="mailto:PSCStatebroadbandoffice@wisconsin.gov">PSCStatebroadbandoffice@wisconsin.gov</a>   |                      |
|  | Date:<br>December 1, 2021  |                      |
| <p>The Public Service Commission of Wisconsin is seeking applications for Broadband Expansion Grants. The Commission may award one or more grants during Fiscal Year 2022 to public and private entities that meet the eligibility requirements set forth in Wis. Stat. § 196.504. This grant round will be funded with bond proceeds authorized by the Wisconsin Building Commission pursuant to Wis. Stat. § 13.48(30). As such, successful applicants are subject to the requirements of Wis. Stat. § 13.48(30). Successful applicants will demonstrate a clear and achievable plan to improve broadband communications services in one or more underserved areas in the State.</p>   |  |                      |
| <p><b>Applicant Certification:</b> In signing this application, the undersigned verifies under penalty of perjury that the Applicant and its employees and agents have not, either directly or indirectly, entered into any agreement or participated in any collusion or otherwise taken any action in restraint of free competition with respect to this application; that no attempt has been made to induce any other person or firm to submit or not to submit an application; that this application has been independently arrived at without collusion with any other proposer, competitor or potential competitor; that this application has not been knowingly disclosed prior to the opening of applications to any other applicant or competitor; that all of the responses and representations of Applicant in this application are true and correct to the best of the undersigned's knowledge, information, and belief; and that Applicant agrees to, accepts, and will comply with all of the terms and conditions respecting this application and any award of a broadband expansion grant as may be established in a grant award Agreement.</p> |  |                      |
| Name of Authorized Representative (Type or Print)<br><br>Elizabeth A. Klein  | Title<br><br>Clerk, Town of Draper   | Phone (715) 266-2110 |
| Signature of Authorized Representative<br>   | Date 2/23/2022   |                      |

**SUMMARY OF GRANT APPLICATION**

|   |  |  |   |
|---|--|--|---|
| Primary Applicant Name<br>TOWN OF DRAPER  | Amount of Broadband Grant Request (round to nearest dollar)<br>\$ 3,188,191,00   |  |   |
| Federal Employer Identification No.<br>39-6005862   | Amount of Matching Funds Pledged (round to nearest dollar)<br>\$ 1,366,368.00  |  |   |
| Contact Name and Title<br><br>Elizabeth A. Klein, Clerk Town of Draper  | Total Cost of Proposed Project (round to nearest dollar)<br>\$ 4,554,559.00  |  |   |
| Telephone Number<br><br>(715) 266-2110  | Project Name<br>Town of Draper   |  |   |
| E-mail Address(es)<br><br>clerk@townofdraper.com  | Type of Proposed Broadband Service (FTTH, Cable, DSL, etc.)<br>FTTH  |  |   |
| Grant Manager, if different than Primary Applicant<br>LTD Broadband, LLC  | Type of Proposed Project (Last-mile, Middle-Mile, backbone, other)<br>Last-Mile  |  |   |
| Grant Manager Contact Name<br>Corey Hauer, CEO<br>69 Teahouse St. Las Vegas, NV 89138   | Grant Manager Email Address and Telephone Number<br><a href="mailto:CoreyHauer@LTDBroadband.com">CoreyHauer@LTDBroadband.com</a><br>(507) 318-0143 |  |   |
| <p>If the application proposes a public-private partnership, list the names, addresses, and FEINs of the partner companies or organizations</p> <table border="0" style="width:100%"> <tr> <td style="width:50%"> <p><b>Partner Name:</b> LTD Broadband, LLC<br/><b>FEIN:</b> 45-3770932<br/>69 Teahouse St.<br/>Las Vegas, NV 89138</p> </td> <td style="width:50%"> <p><b>Partner Name:</b> Town of Draper<br/><b>FEIN:</b> 39-6005862<br/>6994N Main St.<br/>Loretta, WI 54896</p> </td> </tr> </table>                  |  | <p><b>Partner Name:</b> LTD Broadband, LLC<br/><b>FEIN:</b> 45-3770932<br/>69 Teahouse St.<br/>Las Vegas, NV 89138</p> | <p><b>Partner Name:</b> Town of Draper<br/><b>FEIN:</b> 39-6005862<br/>6994N Main St.<br/>Loretta, WI 54896</p> |
| <p><b>Partner Name:</b> LTD Broadband, LLC<br/><b>FEIN:</b> 45-3770932<br/>69 Teahouse St.<br/>Las Vegas, NV 89138</p>  | <p><b>Partner Name:</b> Town of Draper<br/><b>FEIN:</b> 39-6005862<br/>6994N Main St.<br/>Loretta, WI 54896</p>                                    |  |   |
| <p>Brief Project Description (2 sentences)<br/>LTD Fiber project will provide services to un/underserved residents and businesses in the Town of Draper by employing Gigabit Passive Optical Network (“GPON”) architecture for its FTTH network, utilizing 1 to 32 distributed splits. Each subscriber will be capable of speeds of up to 1Gbps symmetrically provided by optics that allow as much as 2.4Gbps download/1.2Gbps upload.</p>   |  |  |   |
| Maximum Proposed Download Transmission Speed<br>1 Gbps  | Maximum Proposed Upload Transmission Speed<br>1 Gbps   |  |   |
| Minimum Proposed Download Speed to Customer Location<br>100 Mbps  | Minimum Proposed Upload Transmission Speed to Customer Location<br>100 Mbps  |  |   |
| County or Counties served by this project<br>Sawyer County  | Community or Communities served by this project<br>Town of Draper  |  |   |
| <p>List of the Broadband Service Providers, if Any, Currently Serving the Area the Applicant Proposes to Serve<br/>The area targeted is an area listed as unserved with a minimal area designated as underserved in the rural areas of the Town of Draper. CenturyLink is the listed provider in the unserved and underserved areas. CenturyLink does not provide broadband service capable of 10 x 1 in most areas. LTD Broadband offers a service with minimum speeds of 100 Mbps x 100 Mbps per subscribed location.</p> |  |  |   |

|   |   |
|---|---|
| <p>Does proposed project serve an <i>unserved</i> area of the State, as defined in <a href="#">Section 1.4</a> of the application instruction? (yes/no)</p> <p>Yes</p>  | <p>Is the Applicant certified as a Broadband Forward! Community or Telecommuter Forward! Community, or does the grant project propose to serve a Broadband Forward! Community or Telecommuter Forward! Community? (yes/no)</p> <p>Yes under Sawyer County</p> |
| <p>For last mile projects or component the expected number of Business Locations that will have access to the improved broadband service (i.e., total business locations passed or with new service access).</p> <p>9</p> | <p>For last mile projects or components the expected number of Residential Locations that will have access to the improved broadband service (i.e., total residential locations passed or with new service access).</p> <p>288</p>                            |
| <p>Of the improved business locations, how many locations are <i>unserved</i>?</p> <p>0</p>   | <p>Of the improved residential locations, how many are <i>unserved</i>?</p> <p>0</p>  |
| <p>For providers that are eligible telecommunications carriers will the proposed broadband service be available to Lifeline customers? (yes/no) Yes</p>   | <p>Are there any programs available for low-income households to access low-cost service or discounts? (yes/no)</p> <p>Yes</p>  |
| <p>Is the internet service provider currently participating in the Emergency Broadband Benefit Program? (yes/no)</p> <p>Yes</p>   | <p>Is the internet service provider currently participating in the Department of Public Instruction and CESA purchasing's Digital Learning Bridge? (yes/no)</p> <p>No</p>   |
| <p>Did the internet service provider participate in the Public Service Commission's voluntary Broadband Coverage Data Collection in 2021? (yes/no) Yes</p>  |   |

# Summary of Project Budget and Funding

## FY22 Broadband Expansion Grant Application Budget & Income Summary



Please complete this form using Microsoft Excel. A PDF copy must be attached to your application as page four. In addition, this form must also be uploaded to ERF in Excel format.

### Grant Summary

|                                    |                         |
|------------------------------------|-------------------------|
| Grant Applicant: LTD Broadband LLC | Project: Town of Draper |
|------------------------------------|-------------------------|

### Budget

| Line:                 | Description / Category:      | Grant Funds:    | Match:          | Total:          |
|-----------------------|------------------------------|-----------------|-----------------|-----------------|
| 1                     | Contractual, Consultant Fees | \$ 3,188,191.00 | \$ 1,366,368.00 | \$ 4,554,559.00 |
| 2                     | Equipment                    |                 |                 |                 |
| 3                     | Supplies                     |                 |                 |                 |
| 4                     | Labor (Salary, Fringe)       |                 |                 |                 |
| 5                     | Permitting, Licensing Fees   |                 |                 |                 |
| 6                     | Travel                       |                 |                 |                 |
| 7                     | Other                        |                 |                 |                 |
| <b>Total:</b>         |                              | \$ 3,188,191.00 | \$ 1,366,368.00 | \$ 4,554,559.00 |
| 30.0% match requested |                              |                 |                 |                 |

### Pledged Contributions

| #:            | Entity:           | Entity Type: | Pledge Type: | Pledge:         |
|---------------|-------------------|--------------|--------------|-----------------|
| 1             | LTD Broadband LLC | Partner      | Cash         | \$ 1,358,868.00 |
| 2             | Town of Draper    | Applicant    | In-Kind      | \$ 2,500.00     |
| 3             | Town of Draper    | Applicant    | Cash         | \$ 5,000.00     |
| 4             |                   |              |              |                 |
| 5             |                   |              |              |                 |
| 6             |                   |              |              |                 |
| 7             |                   |              |              |                 |
| 8             |                   |              |              |                 |
| 9             |                   |              |              |                 |
| 10            |                   |              |              |                 |
| <b>Total:</b> |                   |              |              | \$ 1,366,368.00 |



## 3.2 Mandatory Application Requirements

### 3.2.1 Application Identification and Contact Information

The Town of Draper has engaged in a public-private partnership with LTD Broadband, LLC to apply for the Wisconsin Broadband Expansion Grant for Fiscal Year 2022.

Elizabeth A. Klein, Clerk Town of Draper, is the contact for the Town of Draper located at 6994N Main St. Loretta, WI 54896. Ms. Klein's phone number is (715) 266-2110, and her email address is clerk@townofdraper.com. LTD Broadband, LLC will be the Grant Manager for the project, and the primary project contact is Corey Hauer; his contact information is (507) 318-0143, and his email is CoreyHauer@LTDBroadband.com LTD and is located at 69 Teahouse Street, Las Vegas, 89138.<sup>i</sup>

### 3.2.2 Description of the Project and Scalability

- a. LTD Broadband LLC ("LTD") proposes constructing a Fiber-to-the-home network to serve more than 297 homes and businesses in the Town of Draper, the vast majority of which lack access to even 25 Mbps service.<sup>ii</sup> A critical element to any rural broadband business plan is to serve residences and schools, libraries, hospitals, retailers, and other businesses in the area. Fiber offers high bandwidth, low latency, and reliability, ideal for businesses and anchor institutions. This fiber infrastructure allows businesses to locate and expand in rural communities.

The equipment strategy for this project is to deploy a Gigabit Passive Optical Network (GPON) Fiber to the Home (FTTH) solution using the Calix E7-2 platform (or comparable). Customers served by a GPON connection will have a 2.4Gbps/1.2Gbps GPON connection from the Optical Network Terminal (ONT) at their home through a 1:32 optical splitter to the serving remote Optical Line Terminal (OLT).

This GPON capacity will easily scale to provide Gigabit service for these customers. However, if more bandwidths were required, NG-PON2 or XGS-PON at 10Gbps or Point to Point 10Gbps connections or higher could be deployed on an as-needed basis over the proposed Fiber optic cable. Latency within the proposed FTTH equipment ranges from microseconds to around 3-Sms, depending on location and distance from the master node.

A centralized network operations center (NOC) is located in Blooming Prairie, MN, from which LTD Broadband ("LTD") monitors the whole of its network, including this proposed extension. LTD will deploy remote cabinets within this proposed funded service area and will feed these cabinets with 10 GB redundant transport routes to its data center in Nashville, TN. The NOC personnel and its upstream providers monitor LTD's Internet peering connections and routers to ensure redundancy and adequate bandwidth and IP addresses are available to our broadband customers. The internet transport routes can be upgraded as needed to meet expanding demand as usage grows. This network facilitates excellent response times across the network with minimal latency. Overall latency from the network edge to our Internet peering locations is typically well below 20ms.

LTD's overall service level across the complete network is a high-quality product to Wisconsin's underserved, rural area. It is comparable to Internet users in Urban or Suburban areas. Remote alarm systems monitor all sites.

This network will be well maintained and is easily upgradeable. Software upgrades for new features and patches can easily be deployed via the Calix Management System (or similar). Any service-affecting upgrades will be deployed during a maintenance window (12am - 6am) to minimize the impact on broadband customers.

LTD Broadband has spent more than ten years providing state-of-the-art wireless connections to some of the most rural communities within 750 communities and six states in which it operates. This has enabled LTD to develop a plan best suited for the citizens and businesses of the Town of Draper.

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- b. This fiber (FTTH) project for the Town of Draper serves un/underserved residents and businesses per the State of Wisconsin Broadband Map. The areas within the Town of Draper have a range of speeds that do not qualify as "Served" even areas labeled as "Served" still do not have reliable/stable internet as advertised.

LTD began by first identifying the census blocks within its proposed funded service area. Form 477 data is reported at the level of census blocks, so LTD's analysis would be conducted on a similar basis. Next, LTD referenced all Form 477 data for the blocks within its PFSA to determine a list of providers and speeds. Upon review and with local knowledge of the market, LTD found one provider operating in the market.

LTD then produced a list of addresses within its proposed funded service area, separated by census block, began qualifying service on each of the service provider websites claiming the area's serviceability. LTD Broadband confirmed the veracity of the provider's claims, confirming that no provider within the proposed funded service area is presently providing fast, reliable, stable service at or exceeding 100Mbps/20Mbps. We received letters from residents and businesses confirming the lack of fast, reliable, and regular internet service. The Town of Draper has provided the letters and locations of each resident on the map.

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- c. There will be 288 households and 9 businesses that will receive service through this project. While there are some farms and agricultural-type buildings, we will define all the households as residential. The village has heard from many residents in this area regarding the lack of broadband. Most of the residents are year-round residents and not seasonal or tourists.

There will be 297 physical addresses that will receive service through this project. We have received letters of support from businesses stating they support broadband expansion as they currently have slowed and unreliable services. It affects their businesses, losing customers due to the inability to process credit cards purchase needed inventory. Customers are angry for waiting, and some are just leaving with purchases without paying. Reliable, high-speed internet is the most necessary means of communication. Having limited or no access to the internet becomes a huge limitation for businesses. Businesses cannot run a business effectively without high-speed internet, thus, limiting the county's promotion of job growth and increasing tax base."

For this application, CenturyLink offers a wireline solution. They cannot provide service or broadband internet capable of 25 x 3 in the majority of the area. Very select areas are serviced by 40Mbps x 5Mbps VDSL technology. The Town of Draper is unhappy with these services when used to work from home and for their children's virtual education needs and in-class education for homework and research after school hours from home.

- d. **Economic Impact and Development**

Number of residents/aging demographic. The majority of the residents are age 70 and older and are not being replaced by the younger generation. When surveyed, the primary reason why their children leave town is because they cannot participate in social media, attend online classes, start a business, or work from home. The majority of property owners

expressed that their younger family members would stay or move here but cannot without internet. There is a shortage of volunteer firefighters (our department nearly closed), and lack of civil servants due to this issue. Having broadband will retain the people we have and bring a younger generation to town to participate in these vital community affairs. It is realistic that the Town could double or triple its population in the next 10 years if they had a comprehensive internet solution.

Distance and financial/environmental costs. The distance to the nearest town that has medical or any sort of major shopping is about an hour. This makes it difficult for anyone to live here- especially the elderly and many of us who can't afford the skyrocketing gas prices. Being able to shop, attend doctors visits, business meetings, and take classes, and work from home is critical to our survival. Broadband will lower everyone's costs, and help reduce the need to travel, which is good for the environment.

Promote business and increase the Wisconsin tax base. The Town of Draper is a tourist destination for classic Northwoods outdoor recreation. People come Draper from other states to enjoy hunting, fishing, hiking, motorsports, etc., and many of those people have expressed an interest to live here but are reluctant due to the same above reasons. Broadband removes these obstacles. The opportunity for increasing our tourism and hospitality business is also very real, but there is no tech infrastructure to support it.

Mr, Chris Klein stated "I currently provide IT services for small businesses. The internet is so slow and unreliable, even unavailable in some areas, that most cannot utilize modern cloud services or provide any amenities like WIFI for their guests. Many have to drive to another location just to check email."

### **Pricing**

LTD Broadband prides itself with the ability to provide a flexible, dependable, affordable service for all its municipal, commercial, and residential customers., LTD currently has over 700 subscribers using their FTTH solution, and the count is increasing daily. LTD offers a mix of Fiber and Fixed Wireless depending on the need and environment where the subscriber is based. Today, we compete with cable companies that offer bundled services, i.e., TV, Internet, and VoIP, by providing the same or better high speeds and service options at a higher quality of service with a lower rate.



## LTD Broadband, LLC Service Offerings for Town of Draper, WI

| Business Rate Plans  |                 | Residential Rate Plans   |                 |
|--|-----------------|--|-----------------|
| Speeds   | Amount          | Speeds   | Amount          |
| 200/200 Mbps   | \$95 per month  | 100/100 Mbps   | \$70 per month  |
| 500/500 Mbps   | \$115 per month | 250/100 Mbps   | \$80 per month  |
| 1/1 Gb   | \$145 per month | 500/250 Mbps   | \$100 per month |
|  |                 | 1 Gb /500 Mbps   | \$130 per month |
| <p style="text-align: center;"><b>Also</b><br/><b>Includes:</b> <i>IHN FREE (In-Home Network)</i><br/><i>Dedicated Support Line</i><br/><i>Dynamic IP Address Included</i></p> |                 | <p style="text-align: center;"><i>IHN FREE In-Home</i><br/><b>Includes:</b> <i>Network</i><br/><i>* \$99.00 - 1 Time Installation Fee</i><br/><i>* No Monthly Equipment fees</i><br/><i>**200.00 Installation fee for Additional relays to other buildings on the property</i></p> |                 |

LTD is currently participating and is committed to working with Federal and Local programs for those homes and businesses to integrate affordably to the Town of Draper and LTD Solution, providing special pricing for those unable to afford the services that will add to their quality of life and well-being. LTD Broadband participates in two Federal sponsored programs: 1. Affordable Connectivity Program (ACP) is an FCC benefit program passed by the US Congress on November 15, 2021, as part of the **Infrastructure Act**, to become a law that establishes a long-term solution for eligible Households with a discount on broadband services and connected devices.; 2. Lifeline Program is administered by Universal Service Administration Company (USAC) and is responsible for data collection and maintenance, support calculation, and disbursement for this low-income program.

- e. LTD Broadband project for the Town of Draper will be targeting “Last-Mile” with fiber to the home.
- f. **Technology**

LTD Broadband LLC (“LTD”) proposes a Fiber-to-the-home (FTTH) network to deliver Broadband services and will employ a Gigabit Passive Optical Network (“GPON”) architecture for its FTTH network, using 1 to 32 distributed splits. LTD will deploy Calix E7-2 chassis within two nodes within Town of Draper, from which it will serve its anticipated 259 funded passings. LTD plans to construct approximately 159 miles of predominately underground fiber plant from these nodes. 1:32 field splitters will be placed within hardened splice closures within clusters of served locations, called Fiber Service Areas (“FSAs”). Each FSA will require a single dedicated strand back to the node serving it and a 2.4Gbps/1.2Gbps GPON OLT port supporting its customers. Each subscriber will be capable of speeds of up to 1Gbps symmetrically.

LTD intends to employ the Calix E7-2 XGS/GPON Combo Cards. Each card supports 8 SFPs of either GPON or XGS-PON and supports 10 to 40Gbps links between cards. More critically, should bandwidth needs increase, the upgrade path from GPON to XGS-PON is straightforward.

Latency within the proposed ITTH equipment ranges from microseconds to around 3-Sms, depending on location and distance from the master node.

A centralized network operations center (NOC) is in Blooming Prairie, MN, from which LTD monitors the whole of its network, including this proposed extension. LTD will deploy remote cabinets within this proposed funded service area and will feed these cabinets with 10 GB redundant transport routes to its data center. The NOC personnel and its upstream providers monitor LTD's Internet peering connections and routers to ensure redundancy and adequate bandwidth and IP addresses are available to our broadband customers. The internet transport routes can be upgraded as needed to meet expanding demand as usage grows. This network facilitates excellent response times across the network with minimal latency. Overall latency from the network edge to our Internet peering locations is typically well below 20ms. All transport routes and IP backhaul can be upgraded as needed to meet expanding demand as usage grows.

LTD's proposed network will have a latency of less than 100 ms and MOS of greater than 4, utilizing GPON and XGS-PON. The actual expected latency within LTD's networks is less than 10 ms.

- g. Middle-Mile is not proposed with this project.
- h. LTD Broadband intends to complete the core components of the proposed Project in this application before or by December 31, 2024.



# Itemized List and Pricing

| Design Model Inputs             |                          |              |              |              |              |              | Current Density |  | 1,811  |                                 |                                 |              |              |              |              |              |              |
|---------------------------------|--------------------------|--------------|--------------|--------------|--------------|--------------|-----------------|--|--------|---------------------------------|---------------------------------|--------------|--------------|--------------|--------------|--------------|--------------|
| Aerial Construction Inputs      |                          |              |              |              |              |              | Working Density |  | 10,000 |                                 | Underground Construction Inputs |              |              |              |              |              |              |
| Fiber Construction costs/ Mile  | Comment                  | 12           | 24           | 48           | 72           | 144          | 288             |  |        | Fiber Construction costs/ Mile  | Comment                         | 12           | 24           | 48           | 72           | 144          | 288          |
| Fiber Price per foot            |                          | \$ 0.39      | \$ 0.34      | \$ 0.35      | \$ 0.30      | \$ 1.20      | \$ 3.00         |  |        | Fiber Price per foot            |                                 | \$ 0.39      | \$ 0.34      | \$ 0.35      | \$ 0.30      | \$ 1.20      | \$ 3.00      |
| Fiber Labor per Foot            |                          | \$ 1.75      | \$ 1.75      | \$ 1.25      | \$ 1.25      | \$ 1.25      | \$ 1.25         |  |        | Bore labor per foot             |                                 | \$ 1.75      | \$ 1.75      | \$ 1.75      | \$ 1.75      | \$ 1.75      | \$ 1.75      |
| Strand/Anchors per Foot         |                          | \$ 0.35      | \$ 0.35      | \$ 0.35      | \$ 0.35      | \$ 0.35      | \$ 0.35         |  |        | Bore labor per foot             |                                 | \$ 7.00      | \$ 7.00      | \$ 7.00      | \$ 7.00      | \$ 7.00      | \$ 7.00      |
| MST Per Mile                    | Set to approx. density/2 | \$ -         | \$ 0         | \$ 0         | \$ 0         | \$ 0         | \$ 0            |  |        | Fiber Labor per Foot            |                                 | \$ 3.63      | \$ 3.63      | \$ 3.63      | \$ 3.63      | \$ 3.63      | \$ 3.63      |
| MST Cost                        |                          | \$ 650.00    | \$ 650       | \$ 650       | \$ 650       | \$ 650       | \$ 650          |  |        | Conduit and Blowing per foot    |                                 | \$ 1.00      | \$ 1         | \$ 1         | \$ 1         | \$ 1         | \$ 1         |
| Splice Cases per Mile           | Set to approx. density/2 | \$ -         | \$ 3         | \$ 3         | \$ 3         | \$ 3         | \$ 3            |  |        | MST Per Mile                    | Set to approx. density/2        | \$ -         | \$ 0         | \$ 0         | \$ 0         | \$ 0         | \$ 0         |
| Splice Cammister Cost (w/Labor) |                          | \$ 550.00    | \$ 550       | \$ 550       | \$ 550       | \$ 550       | \$ 550          |  |        | MST Cost                        |                                 | \$ 650.00    | \$ 650       | \$ 650       | \$ 650       | \$ 650       | \$ 650       |
| MI Splices Per Mile             |                          | 6            | 12           | 24           | 36           | 72           | 144             |  |        | Splice Cases per Mile           | Set to approx. density/2        | \$ 3         | \$ 3         | \$ 3         | \$ 3         | \$ 3         | \$ 3         |
| Customer Splices per Mile       | Set to 2xDensity         | 20           | 20           | 20           | 20           | 20           | 20              |  |        | Splice Cammister Cost (w/Labor) |                                 | \$ 550.00    | \$ 550       | \$ 550       | \$ 550       | \$ 550       | \$ 550       |
| Node Splicing                   |                          | 3            | 3            | 3            | 3            | 3            | 3               |  |        | MI Splices Per Mile             | Set to approx. density          | 6            | 12           | 24           | 36           | 72           | 144          |
| Splicing Overage                |                          | 0%           | 0%           | 0%           | 0%           | 0%           | 0%              |  |        | Customer Splices per Mile       | Set to 2xDensity                | 20           | 20           | 20           | 20           | 20           | 20           |
| Splice Rate                     |                          | \$ 40.00     | \$ 40        | \$ 40        | \$ 40        | \$ 40        | \$ 40           |  |        | Node Splicing                   |                                 | 3            | 3            | 3            | 3            | 3            | 3            |
| Make Ready per Pole             |                          | \$ 70.00     | \$ 70        | \$ 70        | \$ 70        | \$ 70        | \$ 70           |  |        | Splicing Overage                |                                 | 0%           | 0%           | 0%           | 0%           | 0%           | 0%           |
| Poles per Mile                  |                          | 26           | 26           | 26           | 26           | 26           | 26              |  |        | Splice Rate                     |                                 | \$ 40.00     | \$ 40        | \$ 40        | \$ 40        | \$ 40        | \$ 40        |
|                                 |                          |              |              |              |              |              |                 |  |        | Labor Cost per SM HH            |                                 | 100          | 100          | 100          | 100          | 100          | 100          |
| Fiber Price                     |                          | \$ 1,821.60  | \$ 2,064.48  | \$ 3,339.60  | \$ 4,857.60  | \$ 9,108.00  | \$ 18,216.00    |  |        | Material Cost per SM HH         |                                 | 200          | 200          | 200          | 200          | 200          | 200          |
| Labor                           |                          | \$ 7,590.00  | \$ 7,590.00  | \$ 7,590.00  | \$ 7,590.00  | \$ 7,590.00  | \$ 7,590.00     |  |        | SM HH per mile                  | Set to approx. density/2        | 5            | 5            | 5            | 5            | 5            | 5            |
| Strand and Anchors              |                          | \$ 2,125.20  | \$ 2,125.20  | \$ 2,125.20  | \$ 2,125.20  | \$ 2,125.20  | \$ 2,125.20     |  |        | Labor Cost per LG HH            |                                 | 150          | 150          | 150          | 150          | 150          | 150          |
| MST                             |                          | \$ -         | \$ -         | \$ -         | \$ -         | \$ -         | \$ -            |  |        | Material Cost per LG HH         |                                 | 300          | 300          | 300          | 300          | 300          | 300          |
| Splice cases                    |                          | \$ 1,650.00  | \$ 1,650.00  | \$ 1,650.00  | \$ 1,650.00  | \$ 1,650.00  | \$ 1,650.00     |  |        | LG HH per mile                  |                                 | 2            | 2            | 2            | 2            | 2            | 2            |
| Splicing                        |                          | \$ 1,160.00  | \$ 1,400.00  | \$ 1,880.00  | \$ 2,360.00  | \$ 3,800.00  | \$ 6,680.00     |  |        | Fiber Price                     |                                 | \$ 1,821.60  | \$ 2,064.48  | \$ 3,339.60  | \$ 4,857.60  | \$ 9,108.00  | \$ 18,216.00 |
| Fiber Dollars per Mile          |                          | \$ 14,346.80 | \$ 14,829.68 | \$ 16,584.80 | \$ 18,582.80 | \$ 24,273.20 | \$ 36,261.20    |  |        | Labor                           |                                 | \$ 19,140.00 | \$ 19,140.00 | \$ 19,140.00 | \$ 19,140.00 | \$ 19,140.00 | \$ 19,140.00 |
| Make ready/mile                 |                          | \$ 1,820.00  |              |              |              |              |                 |  |        | MST                             |                                 | \$ -         | \$ -         | \$ -         | \$ -         | \$ -         | \$ -         |
|                                 |                          |              |              |              |              |              |                 |  |        | Splice cases                    |                                 | \$ 1,650.00  | \$ 1,650.00  | \$ 1,650.00  | \$ 1,650.00  | \$ 1,650.00  | \$ 1,650.00  |
|                                 |                          |              |              |              |              |              |                 |  |        | Splicing                        |                                 | \$ 1,160.00  | \$ 1,400.00  | \$ 1,880.00  | \$ 2,360.00  | \$ 3,800.00  | \$ 6,680.00  |
|                                 |                          |              |              |              |              |              |                 |  |        | SM HH per Mile                  |                                 | \$ 1,500.00  | \$ 1,500.00  | \$ 1,500.00  | \$ 1,500.00  | \$ 1,500.00  | \$ 1,500.00  |
|                                 |                          |              |              |              |              |              |                 |  |        | Urg HH per Mile                 |                                 | \$ 900.00    | \$ 900.00    | \$ 900.00    | \$ 900.00    | \$ 900.00    | \$ 900.00    |
|                                 |                          |              |              |              |              |              |                 |  |        | Fiber Dollars per Mile          |                                 | \$ 26,171.60 | \$ 26,654.48 | \$ 28,409.60 | \$ 30,407.60 | \$ 36,098.00 | \$ 48,086.00 |

| Drop/Subscriber Inputs          |             |
|---------------------------------|-------------|
| Include Inside Plant            | Yes         |
| Aerial Drop Percentage          | 0%          |
| Aerial Drop Labor per Foot      | \$ 1.15     |
| Underground Drop Labor per Foot | \$ 3.00     |
| Drop Material Per Foot          | \$ 0.20     |
| Drop Length                     | 500.00      |
| Average Drop Cost               | \$ 1,600.00 |
| Access- ONTs per install        | \$ 370.00   |
| Inside wiring                   | 100         |
| Labor                           | 250         |
| Gateway                         |             |
| UPS                             | 50          |
| APDU                            |             |
| Take Rate                       | 65%         |
| Rev Per User Per Month          | \$ 100.00   |
| OLT Cost Per Customer passing   | \$ 50.00    |

| Fiber Distribution Percentages |         |                |
|--------------------------------|---------|----------------|
|                                | Current | Default Values |
| 12 Count                       | 0%      | 25%            |
| 24 Count                       | 50%     | 30%            |
| 48 Count                       | 35%     | 15%            |
| 72 Count                       | 0%      | 10%            |
| 144 Count                      | 15%     | 15%            |
| 288 Count                      | 0%      | 5%             |
| Total                          | 100%    |                |

| Base Version |    |
|--------------|----|
| Base Version | 14 |

The Budget & Income Summary spreadsheet shows that the project's total cost is \$4,554,559.00. Town of Draper and LTD Broadband combined match 30% of the total project; this is a total matching amount of \$1,366,368.00. The matching results in the total broadband fund request to also be \$3,188,191.00.

c. The funds requested for this project will be used for the sole purpose of implementing the project defined in this application.

Matching funds of 30% will be provided by the applicant Town of Draper and the provider LTD Broadband.

d. The Town of Draper is prepared to support this application through a cash contribution of \$5000.00 and \$2,500.00 with In-Kind support. Several actions document their support.

- February 28, 2022, Town of Draper agrees to partner with LTD Broadband LLC for the PSC State of Wisconsin for the Broadband Expansion Grant to build a comprehensive broadband network solution within the Town of Draper contingent upon the grant award.
- February 28, 2022, Town of Draper Board met and voted on Resolution 1-22 in providing \$5,000.00 cash Contribution.
- March 16, 2022, Letter from the town clerk providing \$2,500.00 In-Kind support for marketing and public relations on behalf of LTD Broadband to reach customers.

## Timeline

Construction Start Date: LTD is already collaborating and planning if this application is awarded. For this reason, we expect the start date to occur only days after the official award occurs.

- Months 1-6
  - LTD will work with the County to provide a streamlined process for finalizing land arrangements, acquisitions, or leases as required per site.
  - Initiate requests to schedule any required county, township, village, or city board meetings.
  - Verify and satisfy any environmental or FCC requirements.
  - Permitting will co-inside with the above.
  - Work with Stearns County and other local service groups to communicate marketing materials and timelines.
  - Equipment manufacturing and enclosures will be scheduled for production.
  - Network designs will be finalized.
  - Weather and agreements permitting, installation of equipment on leased sites will commence.
  - Network adjustments as required.
  
- Months 3-10
  - Finalize, if any, land issues and lease agreements.
  - Structure and equipment acquisitions.
  - Begin construction of rate center sites.
  
- Month 6-12
  - Solidify, rate centers, towers, and site preparation work finalized.
  - Collaborative marketing efforts begin with municipalities, service groups, cooperatives, and media as appropriate.
  
- Months 6-18

- Site equipment installation and testing on all rate centers sites as available
- Verify coverage maps.
- Months 6-24
  - Continue rollout of Fiber conduit, rate center sites, and customer premise equipment.
  - Identify coverage trouble areas and adjust as required.

Service availability will be rolled out over time, and the portions of Town of Draper residents will be experiencing 1G x 1G service within the first 180 days of the grant award.

- e. There will be no adverse effect on surrounding towns and villages and will not impair other broadband service providers to extend broadband service to the towns and villages adjacent to the Town of Draper.

### **3.2.5 Other Information**

#### **a. LTD Broadband, LLC Experience**

LTD Broadband was founded in 2011 to bring reliable, affordable broadband in rural and urban areas. Since its inception, LTD Broadband has grown to service over 17,000 subscribers and currently serves the upper Midwest in Iowa, Minnesota, Nebraska, South Dakota, Tennessee, and Wisconsin. Servicing territories covers over 50,000 square miles and 2,500 towers in over 750 cities. LTD Broadband LLC is a well-established and long-term friend and customer of MBT Bank. The LTD Broadband has the financial ability to fully fund the proposed project scope of the Town of Draper Project.

LTD has made the expansion of broadband internet access a top priority to encourage economic development, attract new residents, enhance residents' education and healthcare, improving the overall quality of life over the years. LTD continues to develop broadband and actively seeks out grants to aid in our pursuit. LTD was awarded and completed a CAF II project four years ahead of schedule. LTD has mastered the ability to conceptualize, plan and develop, build, manage multiple projects, and scale operations through small and large projects through grant projects and rural and urban projects.

The success of LTD is due to the solid and deep Partnerships with the Executive Team that is the driving force behind the current and future success of the company.

#### **Corey Hauer, CEO**

Hauer, Founder of LTD Broadband, studied Computer and Electrical Engineering at Purdue University. Hauer holds over 25 years of experience in building companies and systems focused on broadband networks. Multiple telecommunication firms, hospitality businesses, wireless ISPs, regional airlines, law firms, and manufacturers have sought to consult engagements from Hauer on deploying innovative technologies.

**Frank E. Glaszner, COO**

Frank brings over 18 years of telecommunication and technology experience to the table. In addition, he brings 25 years of experience as a resourceful and strategic sales executive as a Lean Six Sigma Black Belt (ICBB), his ability to adapt to any environment and produce results utilizing his vision for process, precision, systematic, and methodical approaches is unparalleled.

Within the telecommunication and technology industry, his vast knowledge has assisted several companies in implementing sales methodology to yield record results and solutions sales, business development, channel development, sales management, WAN/LAN Design, and Telephony & Data Liaison.

**Ira Levy, CFO**

In addition to a Bachelor of Science degree in Finance from the University of Florida and a Master's Degree in Accountancy from the University of Houston. Ira has extensive Wireless Telecommunications (Top 4 carrier, MVNO, DAS, Small Cell, Service Provider), FinTech, e-commerce, and SaaS industry experience, having served in senior-level financial leadership positions at MetroPCS Verizon Wireless, T-Mobile, AT&T, iWireless, Connectivity Wireless, and Mozido.

Ira has raised over \$3 billion in private equity and private and public debt transactions and served in a leading role in a successful IPO. He possesses deep subject matter expertise in all corporate finance disciplines, including capital structuring and fundraising, contract negotiations, business intelligence and analysis, business planning, treasury, and revenue assurance. Ira has led multiple successful M&A transactions on both the buy and sell-side and served as a Board Director for the Association of Financial Professionals.

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<sup>i</sup> Refer to pages 1,2,3

<sup>ii</sup> Map on page 5

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**Items Supporting the Application**

Item 1: Memorandum of Understanding – Partnership

Item 2: Town of Draper Contribution Letter

Item 3: Resolution 1-22

Item 4: Town of Draper Broadband Survey

Item 5: Letters of Support



Town of Draper  
And  
LTD Broadband LLC

## **MEMORANDUM OF UNDERSTANDING**

WHEREAS: Town of Draper has agreed to partner with LTD Broadband LLC, 78053 MN 251, Clarks Grove, MN 56016 for a Town of Draper fiber to the home (FTTH) broadband grant proposal that will be submitted by LTD Broadband LLC to the Public Service Commission of Wisconsin (PSCW) Broadband Expansion Program for the Fiscal year 2022, 2023 grant cycle.

WHEREAS, the Public Service Commission of Wisconsin (PSCW) Broadband Expansion program is available to eligible applicants; and

WHEREAS, the Town of Draper understand that the majority of the targeted areas included in the grant proposal are unserved or underserved meaning they do not get download speeds meeting 25 Mbps and 3 Mbps upload speeds put forth by the FCC ruling of 2017 and is working in partnership with LTD Broadband LLC to improve broadband in those areas and across the Town of Draper; and

WHEREAS, LTD Broadband LLC will compile a competitive Broadband Expansion application(s) to provide badly needed broadband services to homeowners and businesses in the identified areas. LTD Broadband LLC's engineering experts will design, build, and operate the proposed network within those areas.

WHEREAS, LTD Broadband LLC will work with County, Cities, Villages and Townships located in Town of Draper to obtain easements and permits on and across and into the indicated properties to engage activities to construct the project in compliance with all existing rules and regulations; and

WHEREAS, The Broadband Expansion grant process is extremely competitive; and applications that demonstrate a public private partnership are evaluated higher than those that do not; and

WHEREAS, the broadband in Town of Draper is a vitally important topic at the Head of Local Government sessions in recent months and the last two years as the country tries to navigate Covid-19 and operating remotely relying on broadband.

WHEREAS, letters of support to collaborate are being received from local municipalities and businesses that may receive benefits from the application, contingent upon grant approval.

NOW, THEREFORE, BE IT RESOLVED that Town of Draper agrees to partner with LTD Broadband LLC for the Wisconsin Public Service Commission for the purpose of building a comprehensive

fiber to the home broadband network solution within the Town of Draper contingent upon the grant award.

Submitted this day 28th of February, 2022.

Town of Draper

By (Print): BRENDA ADLER

By (Signature): Brenda Adler

LTD Broadband LLC

By (Print): \_\_\_\_\_

By (Signature): \_\_\_\_\_

**Resolution #1-2022**  
**RESOLUTION TO INVEST IN BROADBAND INFRASTRUCTURE WITH**  
**LTD BROADBAND LLC, 78053 MN 251, Clarks Grove, MN 56016**

STATE OF WISCONSIN  
Town of Draper  
Sawyer County

WHEREAS, the Town of Draper received the first payment from the Coronavirus State and Local Fiscal Recovery Funds of the American Rescue Plan Act (ARPA) by the end of June, 2021; and,

WHEREAS, eligible uses of these Fiscal Recovery Funds include investments in broadband infrastructure; and,

WHEREAS, large portions of the Town of Draper lack reliable high-speed internet service; and,

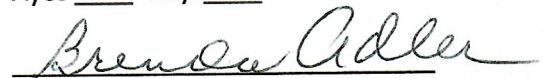
WHEREAS, LTD Broadband LLC seeks to secure a Public Service Commission (PSC) grant to provide reliable fiber to the home high-speed internet service to portions of the Town of Draper PSC has identified as "unserved and underserved"; and,

WHEREAS, the PSC requires matching funds and public private partnerships of grant applicants with grant application due by March 17, 2022;

THEREFORE, the Town Board of Draper, Sawyer County, Wisconsin, by this resolution, adopted by a majority of the town board on a roll call vote with a quorum present and voting and proper notice having been given, resolves that the Town of Draper will invest \$5,000.00 of its Fiscal Recovery Funds in support of the broadband expansion project if LTD Broadband LLC's grant application is approved by the PSC.

ADOPTED: February 28, 2022

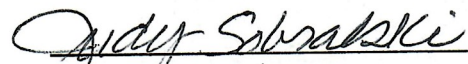
Ayes 3 Nays 0



Brenda Adler, Chair



William Heath, 1st Supervisor



Judy Sobral, 2<sup>nd</sup> Supervisor

Attested: 

Elizabeth A. Klein

Clerk, Town of Draper

# TOWN OF DRAPER

www.townofdraper.com

6994 N Main Street  
Loretta, WI 54896

(715) 266-2110  
info@Townofdraper.com

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March 16, 2022

LTD Broadband, LLC  
Corey Hauer, CEO  
P.O. Box 3064  
Blooming Prairie, MN 55917

RE: Town of Draper PSC Broadband Expansion Grant: In Kind Contribution

Dear Mr. Hauer,

As the elected town clerk and appointed administrative assistant to the board, I serve the Town of Draper in several capacities that can be of benefit to LTD Broadband, LLC in the form of an in-kind contribution to this project.

Within the boundaries of my delegated responsibilities and budgeted expenses, I am able to offer you \$2,500 of my work in the following areas: marketing and public relations on behalf of LTD to reach customers in the Town of Draper via my website, social media and access to the locally published newspaper, the Sawyer County Gazette, for whom I am a contributing writer.

We look forward to working with LTD on bringing broadband to the Town of Draper- everyone is very excited about what this will do for our community and we already have a lot of public support!

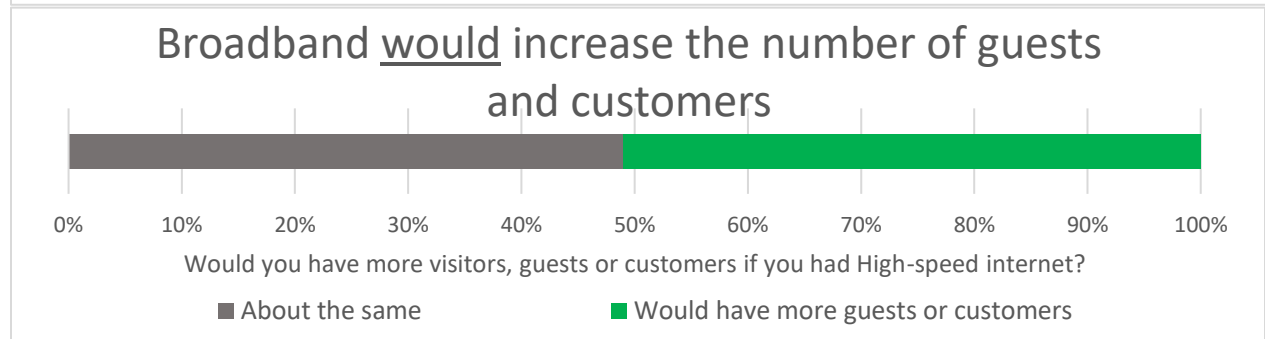
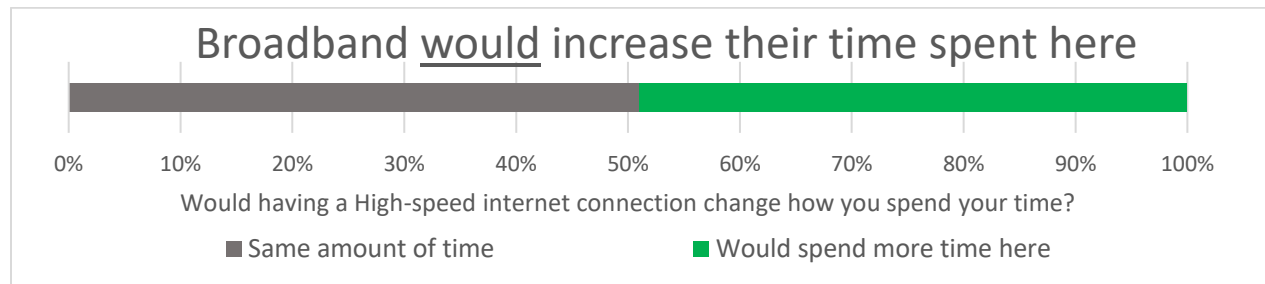
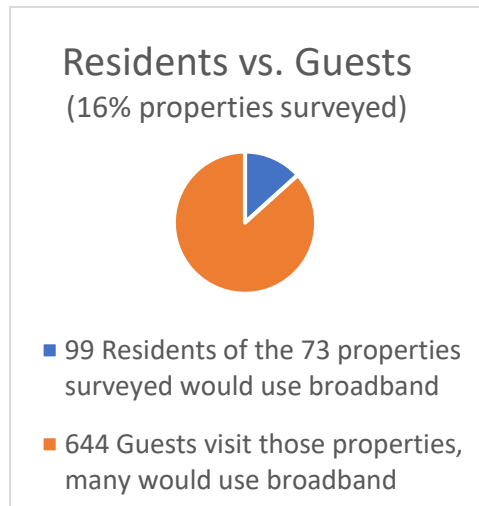
Sincerely,

Elizabeth A. Klein  
Clerk, Town of Draper

# TOWN OF DRAPER BROADBAND SURVEY RESULTS

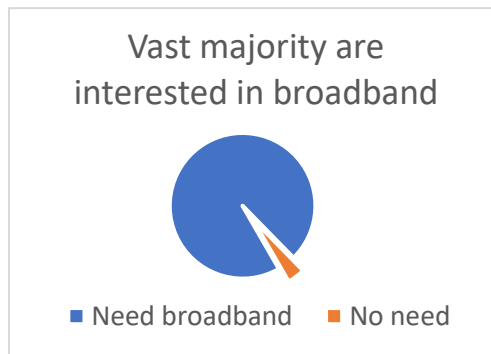
The Town of Draper conducted a Broadband Internet survey to gauge local speeds, and need for bringing high-speed internet to the Town. This was a self-serve, online-only questionnaire that ran for 2 weeks at the end of February, 2022. Roughly 15% of our property owners responded, of those 75% of the property owners that responded were full-time residents or businesses, the rest owned vacation properties. A large portion of our non-resident property owners were not reached by this survey as they are seasonal (have a second home or summer business here) and thus out of the area over the winter during the survey. The survey was advertised on the town’s website and Facebook page. There were no mailings done to the properties, therefore, many who are seasonal or who have no internet here were not aware of the survey or could not participate. Still, despite the limited reach of the survey, there were 49 eager respondents in the first days for a total of 73 properties, most lacking internet or lacking reliable internet. **Nearly all were extremely favorable towards bringing fiber broadband service to their home or business. The results show this rural community is truly unserved and underserved.**

**Out of the 73 properties surveyed, 99 people live at them that would use broadband internet.** Being a vacation hotspot, the survey recorded an additional **644 guests** that regularly visit at these properties that would benefit from hi-speed internet. More than half agreed they would attract even more visitors, guests or customers if they had broadband. Many of the commenters indicated **they or their families and guests would consider moving here or spending more time here if they had high-speed internet**, in fact **the lack of internet was a major detriment keeping their kids away and preventing them from working here or moving here.** The conclusion is broadband internet would revitalize our community, bring jobs and younger working people to our aging community to participate in civic duties, increase our tax base, and improve safety.





## There was an overwhelming interest in new services:



14 properties **do not have internet at all** but can foresee needing to add service in the coming years

34 have some type of service but desire improving their speed, reliability or adding connections,

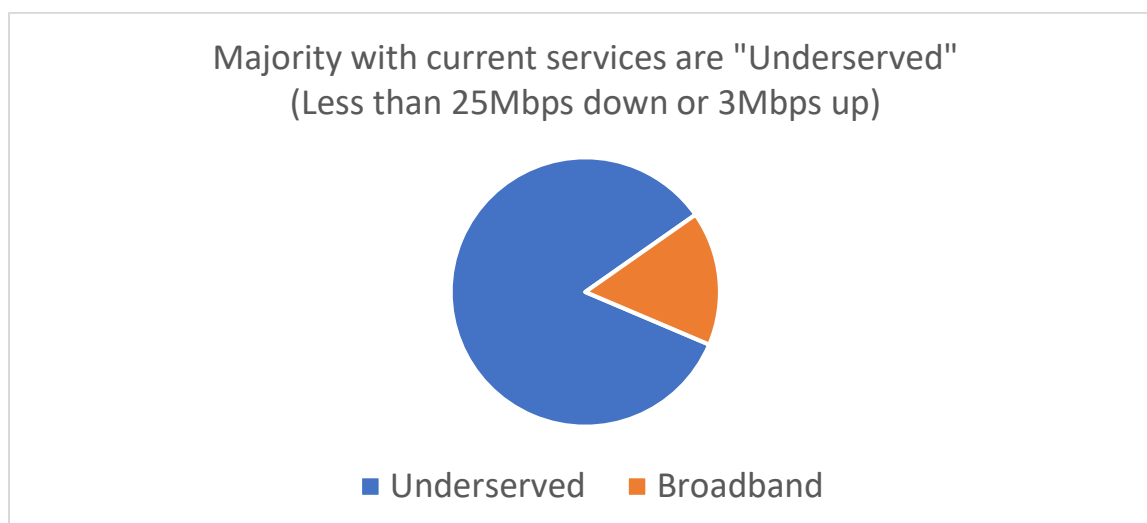
25 are not satisfied with their current provider,

Only 1 had no need for service or improved service.

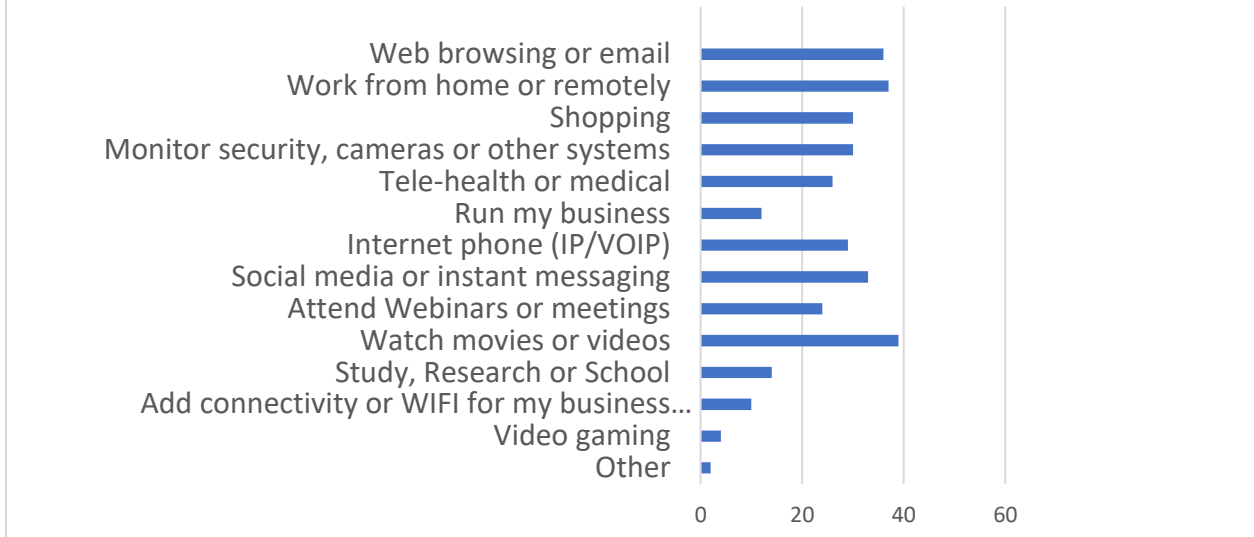
## The need is real, 81% with internet are “underserved”, 19% of respondents have NO internet services at all.

The only physical connections are provided by CenturyLink DSL, most are extremely slow to unusable. The rest are satellite or cellular, those that advertise as “unlimited data” actually slow down with caps. **All surveyed had less than 1Mbps, assymetric upload speeds.**

- 17 with CenturyLink DSL, average speed of 3Mbps down, only 0.28Mbps up but several were too slow to measure, one resident stating “**Slower than a Snail in a Coma**”
- 2 with T-Mobile cellular averaging 26Mbps down
- 2 with Verizon cellular, no speed recorded, described as unusable for web meetings
- 1 with HughesNet satellite 25Mbps down but with high latency and unable to stream
- 6 with ViaSat satellite with an average speed of 25Mbps down, but only 0.3Mbps up with high latency and capped data plans
- 3 with Starlink satellite with an average speed of 99Mbps down but occasional dropouts
- 1 with CenturyLink fiber to DSL at 82.59 Mbps, was the only connection that offered stable broadband speeds



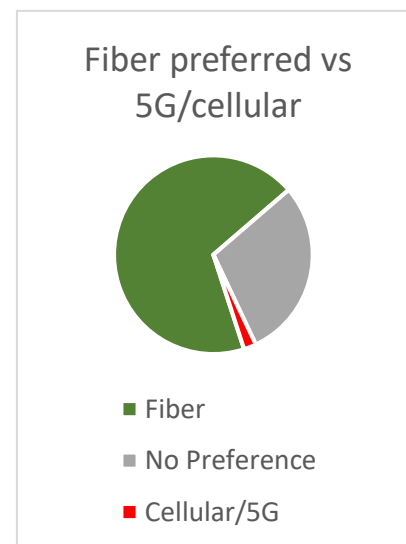
## This is how they would use high speed internet



Besides the usual browsing, social media or entertainment, a surprising number of people need to work from home, attend classes, utilize more reliable phone services, tele-health, and monitor security systems.

## Fiber to the door is the preferred installation, cell towers were opposed

When asked what type of connections our property owners want, the majority (68%) preferred fiber optic service to wireless, 29% had no preference, only one resident supported more cell towers. Many residents were very strongly opposed to more cell towers or 5G wireless to disrupt the scenery and pristine character of this area as they moved here to get away from cell towers or city life. The Town of Draper's main business is that ecosystem and tourism and the main attraction for residents and tourists is enjoying nature, hunting, fishing, outdoor motorsports, meditation, hiking, etc. Fiber broadband will have minimal impact and there was no opposition towards fiber broadband by the respondents.



## Testimonials of support from those surveyed:

*My remote work is highly internet connectivity sensitive. Not having reliable fast internet is a condition of my employment.*

---

*We need high-speed internet for my job/meetings and we have family that would use high-speed internet for online college courses, research and a daughter that has an online K-12 educational course business.*

---

*I just opened a new store with a credit card machine along with other equipment. My current speed is unable to support my new business.*

---

*I depend on high speed internet in order to work from home with my employer. Needless to say this impacts my ability to work from our home. Also, it is nearly impossible to complete a video call with my health care providers.*

---

*This is long overdue.*

---

*My mother lives at the house alone, and internet would allow us to be more connected when I am not up here visiting. We talk on the phone, but Facetime would make a huge difference. It would also allow me to effectively do my job from here. As it is I have to drive into town (Park Falls or Hayward) to get reliable internet/cell coverage or go to a restaurant.*

---

*I think this underserved area should be considered for service by any company that wants to get in here*

---

*Benefit would be that my son could work from our cabin and therefore spend more time there than his restricted vacation times allow.*

---

*I am the town clerk- I work from home and often have lag times between file uploads and downloads between home and the office, also in Draper. This causes me to lose emails and files when files do not upload and programs do not close correctly. My office download speed from CenturyLink at work is 1.5Mbps. The Town Hall needs high speed internet to run elections, access agency databases, host ZOOM and and webinars, and share the Town Hall WIFI with public guests. We could double our services to the public with high speed internet.*

---

*A reliable high speed connection would allow several family members and friends to work from our cabin and visit more frequently. Personally I would be able to stay for longer stretches of time.*

---

*Reliable internet is critical to my business. Some days it is impossible to work here. Town of Draper is in the stone ages - most people's speeds are still at the Windows 95 dial-up modem rate.*

---

*It would allow our children to come more often, and they could work from our home, instead of having to drive an hour to Hayward for the connection and speed.*

---

*I have a mail-order business this would greatly improve*

---

*I have friends and family that rely on hi speed internet to work. (They work from their homes for their regular jobs, and for most, this will continue after covid is finally a thing of the past.)*



*I would be able to work from home. As a newly retired person that still needs to work, this would give me a great opportunity to live in the northwoods and still have a job.*

---

*If I had high speed internet I would spend more time at my cabin and maybe live there full time.*

---

*I serve on several local, statewide, regional and national committees and better internet connectivity would assist my interactions with others on a more regular basis. Currently, it takes an inordinate amount of time (with interruptions) to participate in meetings or webinars*

---

*I'm a software developer and my career depends on high-speed internet. I often leave the area when the speed becomes intolerable and deadlines loom.*

---

*For my business, attracting more property owners that will require my services is a huge plus. As a remote worker, I barely have enough bandwidth to cover my internet appetite. When I have company, the wifi can often not be shared if I am on Zoom/MS Teams meetings.*

---

*I have two sons that are working 75% of the time at home. They tell me that they could work just fine at the cabin and would spend more time there IF there was hi speed internet.*

---

*Save money and get more reliable internet service*

---

*Feel more safe, connect to medical if needed*

---

*It would be very beneficial. I can watch my cameras, do my banking, setting appointments, check my email etc. I plan on moving there permanently within the next two years*

---

*It would allow me to not rely on unreliable rural phone signals*

---

*Our HughesNet service is so slow I cannot connect to work from our property in the area. If I could connect reliably, I would be able to be in the area more. Our daughter cannot complete her online college courses from the area due to lack of good reliable and high speed internet. Streaming movies and shows is not possible with our current service. And, we cannot connect remotely in a reliable way to check our security cameras or thermostat.*

---

*It would really help us use the property we own to be able to work remotely from there.*

---

*Covering all rooftops in this township is essential for our survival*

---

*As long as it's reasonable and we can pay month by month I'm all for it.*

---

*Data is the great equalizer in our economy. Access to fast reliable internet are as essential as electricity today. Whereas high speed broadband may not solve all our community's problems, providing this service can help drive growth. Not having broadband would be a death sentence to our township, leading to economic and societal decay. The demographics of our community will need to skew younger, and providing broadband can help bring younger people, absentee landowners, and teleworkers into the community. Thanks!*

---

*Yes to fiber- but I do not want added cell towers or 5G microwave "hops" in my area. We are a forest community and wish to keep visible and potentially hazardous to health tech to a minimum.*

*Stay connected to my son in Colorado and my sisters in Exeland and Indiana*

---

*Reliable high speed service should be a minimum infrastructure feature in any community today.*

---

*I do not want any more cell towers as the natural wildlife area is our biggest tourist attraction*

---

*Better streaming of tv/movies*

---

*My one concern is being told by CenturyLink their "Broadband for (my) area was full and could not carry more customers! Hey, it is NOT 1946.*

---

*I think it would be wonderful.*

---

*No more ugly cell towers please!*

---

*Other than never having the option of getting it? No concerns.*

---

*I would not want cell towers everywhere, preserving the scenic landscape while having first world amenities is a classic win/win for me.*

---

*I feel if you were able to expand internet service, our area would grow with a great many more permanent residents.*

Chris Klein  
Klein Technical Services  
3751 W Andersen Road  
Loretta, WI 54896

3-8-2022

To whom it may concern,

The Town of Draper is in dire need of broadband internet service. The antiquated telephone lines cannot support reliable phone calls, let alone 1.5Mbps DSL internet. The infrastructure is obsolete and in some places non-existent. We have 3 major challenges here that the PSC could basically solve for us by supporting LTD's proposed installation of broadband fiber in the Draper/Loretta/Oxbo area:

- 1) Number of residents/aging demographic. The majority of our residents are age 70 and older and are not being replaced by the younger generation. When surveyed, the primary reason why their children leave town is because they cannot participate in social media, attend online classes, start a business, or work from home. The majority of property owners expressed that their younger family members would stay or move here but cannot without internet. There is a shortage of volunteer firefighters (our department nearly closed), and lack of civil servants due to this issue. Having broadband will retain the people we have and bring a younger generation to town to participate in these vital community affairs. It is realistic that the Town could double or triple its population in the next 10 years if we had a comprehensive internet solution.
- 2) Distance and financial/environmental costs. The distance to the nearest town that has medical or any sort of major shopping is about an hour. This makes it difficult for anyone to live here- especially the elderly and many of us who can't afford the skyrocketing gas prices. Being able to shop, attend doctors visits, business meetings, and take classes, and work from home is critical to our survival. Broadband will lower everyone's costs, and help reduce the need to travel, which is good for the environment.
- 3) Promote business and increase the Wisconsin tax base. Our town is a tourist destination for classic Northwoods outdoor recreation. People come here from other states to enjoy hunting, fishing, hiking, motorsports, etc., and many of those people have expressed an interest to live here but are reluctant due to the same above reasons. Broadband removes these obstacles. The opportunity for increasing our tourism and hospitality business is also very real, but there is no tech infrastructure to support it. I currently provide IT services for small businesses. The internet is so slow and unreliable, even unavailable in some areas, that most cannot utilize modern cloud services or provide any amenities like WIFI for their guests. Many have to drive to another location just to check email.

LTD Broadband LLC is taking a unique approach to solving these issues once and for all. Their concept of using existing telephone poles for middle-mile will make it feasible to actually reach the costly distant endpoints. They have reasonable rate plans that do not impose penalties for our seasonal properties, and their pledge to use fiber instead of cell towers is vital to our ecosystem, which is our main business. I believe they are sincere about trying to get the job done. No other provider is viable or desiring to do the same. Please support LTD's efforts, this is vital.

Thank you,  
Chris Klein

# TOWN OF DRAPER

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March 8, 2022

LTD Broadband, LLC  
Corey Hauer, CEO  
P.O. Box 3064  
Blooming Prairie, MN 55917

RE: Wisconsin Broadband Expansion Grant 2022

Dear Corey,

I am writing this letter on behalf of the municipal government of the Town of Draper, its town board and planning commission, and residents. The Town of Draper is the second largest township by geographical area in Sawyer County, comprised of the unincorporated villages of Loretta, Draper and Oxbo. We are remotely located in the Northwoods of Wisconsin, and our residents are spread over a large distance. Many live deep in the woods along rivers and lakes, where cell signal is intermittent and there is no access to internet.

We lack amenities and services that most people take for granted- for example, our children are bused to a nearby town for schooling, the store and post office are located there, and we have no hospital or medical services closer than 45 minutes away. That being said, this is a great place to live: our main industry is logging, followed by ecotourism and hospitality. There are signs of retail growth occurring. We are a growing community despite the rural challenges, and we see that the way forward for economic development is largely based on acquiring broadband. Residents continuously express the need for fiber broadband internet service.

Many of our residents utilize technology to the extent it is available- we have a popular town website and social media platform that we use to communicate vital information. This was especially important during the COVID 19 pandemic. The pandemic heightened the need for online connectivity in our community. People came to stay their cabins and realized they want to remain permanently, if they could continue working, attending school, and having access to internet health and news information.

We hope that broadband funding from the Wisconsin Public Service Commission will address this important need by getting our remote rural residents connected to essential services and information. We strongly support the application for broadband expansion funding for the underserved areas in the Town of Draper, Wisconsin.

Thank you for your efforts-



Elizabeth A. Klein  
Clerk, Town of Draper

March 8, 2022

To whom it may concern

This letter comes to you in support of LTD's efforts to secure PSCW grant dollars to accelerate installation of broadband fiber in Draper Township. As a part-time resident of Draper for the past 29 years I can attest to the negative impacts of sub-standard or non-existent internet service. For most of the 29 years owning property and regularly visiting Draper, internet access has been at best unreliable.

Years ago, that condition was merely inconvenient. Today lack of a reliable high speed internet connection alters the ability of residents and visitors to fully participate in many life activities. Everything from educational opportunities to business viability to life-sustaining telehealth capability are impacted. The PSCW broadband grant program wisely recognizes these impacts and is a valuable tool to correct these life impacts.

As a recently retired officer of a major midwestern natural gas and electric utility company I can personally attest to the responsibility utilities have to provide life-sustaining services to their customers. That is a responsibility utilities take seriously and state commissions like the PSCW play a vital role in administering and overseeing those company operations. Part of that oversight includes ensuring as many customers as possible have the benefit of receiving those services. Today, those vital services include broadband.

LTD Broadband LLC has presented the most viable comprehensive plan to provide coverage for residents in Draper Township that are either unserved or underserved. LTD's plans also address important utility issues such as service quality, reliability, customer service capability and economic development opportunity. LTD has presented plans to the Township that not only meet the tremendous responsibility utility companies have to their customers but also meet the spirit and intent of your grant program.

Please support LTD's efforts to provide vital broadband service to Draper Township.

Sincerely,

John Kleczynski  
1535 E. Best Drive  
Arlington Heights, IL 60004  
847-338-3090