



Winnebago Broadband Project

Building the Future

- Close the digital divide!
- Federal grant through the *Tribal Broadband Connectivity Program*
- Olsson will oversee the design and implementation of the fiber network
- Increasing internet speeds and reliability for
 - Households
 - Businesses
 - Schools, libraries, hospitals, churches and more



Agenda

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PROJECT TEAM

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CONSTRUCTION PHASE

3

DESIGN LAYOUT

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CONSTRUCTION METHODOLOGY

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SCHEDULE

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PUBLIC QUESTIONNAIRE

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QUESTIONS & ANSWERS

Who is Olsson

An Engineering Firm with Purpose

We're here to improve communities by making them more sustainable, better connected, and more efficient.

Simply put, we work to leave the world better than we found it.



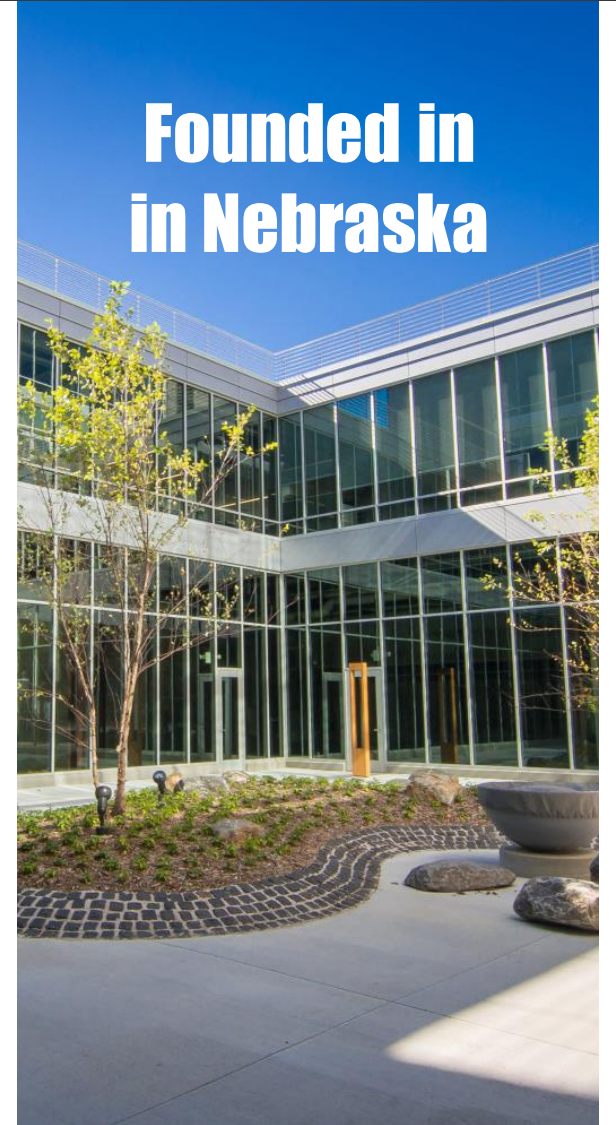
RODNEY MARTIN
OLSSON PROJECT MANAGER
Design Technical Manager /
Telecommunications

Olsson's Services

Engineering
Planning & Design
Environmental
Field Services
Technology

#73
ENR
TOP 500
DESIGN FIRMS
2023

**Founded in
in Nebraska**



Winnebago Broadband Project Team

WINNEBAGO TEAM



BRANDON STOUT
DIRECTOR
IT Services



TEDDY FRENCHMAN
FIBER OPTIC PROJECT MANAGER
Winnebago Broadband Project



JOY JOHNSON
DIRECTOR
Planning & Development

OLSSON TEAM



RODNEY MARTIN
PROJECT MANAGER
Design Technical Manager
Telecommunications



NICK P DANIELSON
Design Technical Manager
Telecommunications



RYAN MEINTS
Design Technical Manager
Telecommunications



STACEY ROACH
Public Engagement



HALEY ENGSTROM
Public Engagement

Important Terms to Know



ISP

Internet Service Provider

Speed

Lightning-fast internet speeds and reliable connectivity for all devices

Broadband/ Fiber Optics

The best of the best in fast data transmission

NID

Network Interface Device connects underground fiber lines to the house

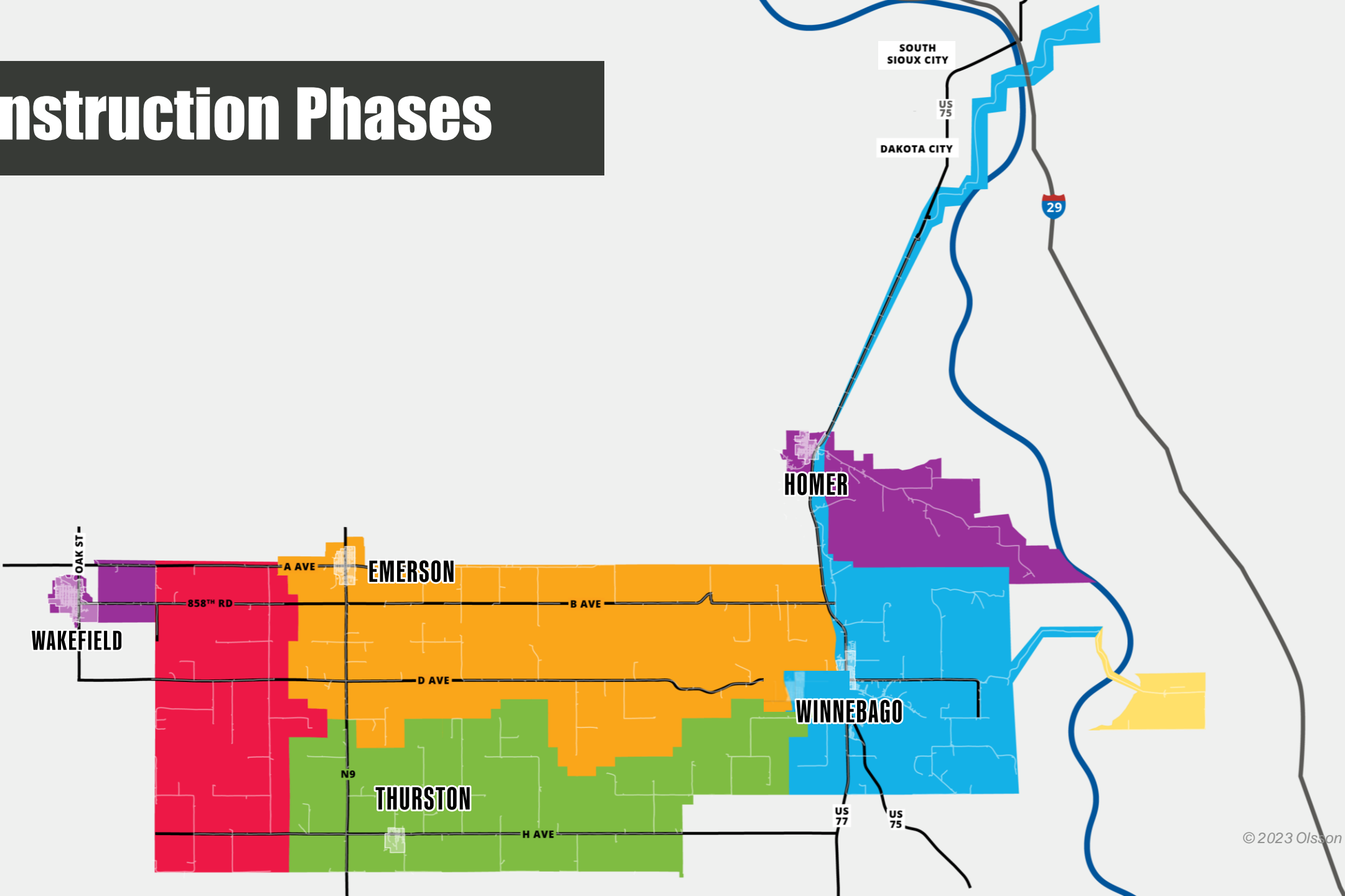
Central Office

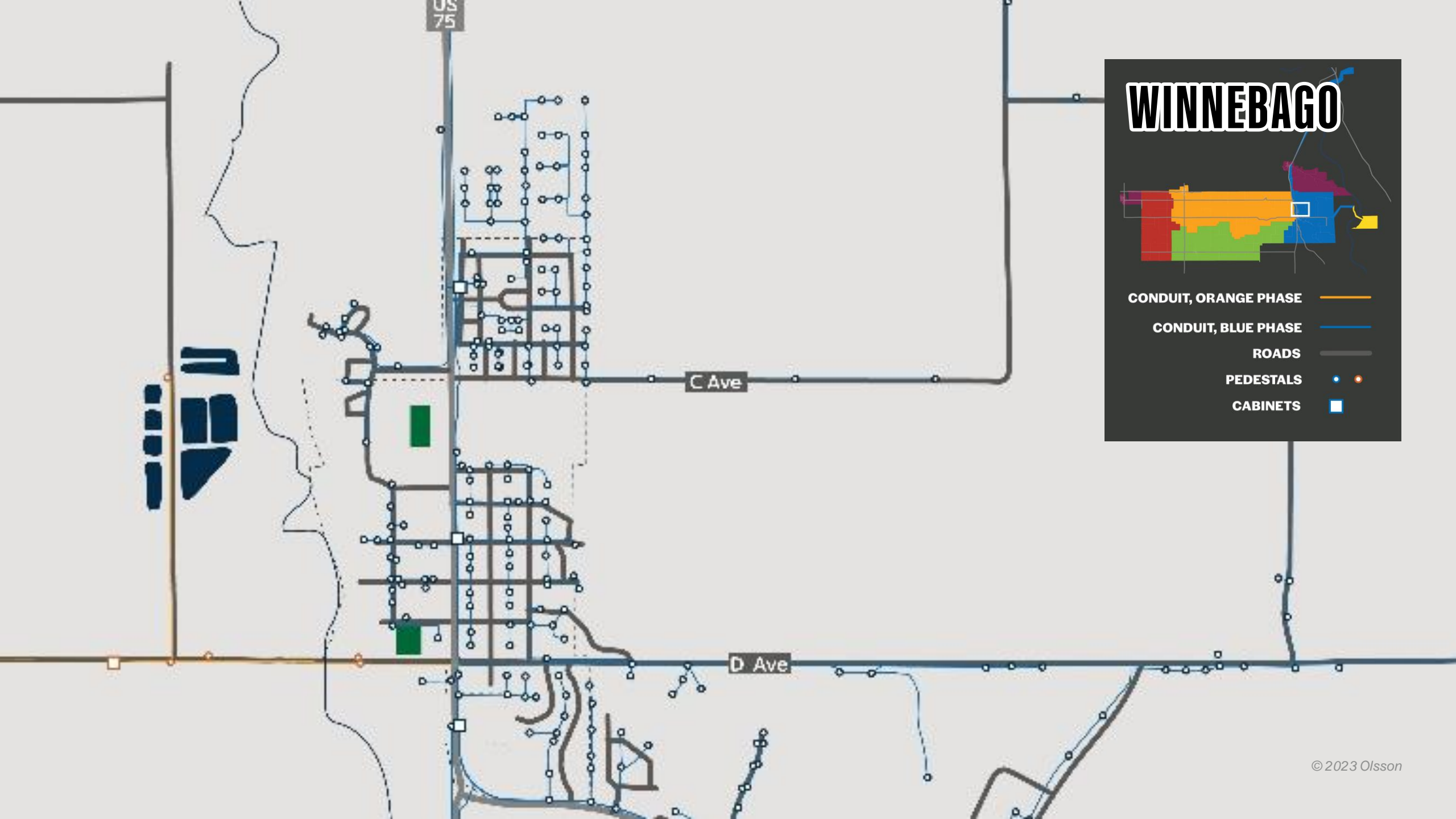
Provides technical support, accepts payments, and more.

Pedestal

Fiber optic connection point between NID and Cabinet

Construction Phases





US 75

C Ave

D Ave

WINNEBAGO



- CONDUIT, ORANGE PHASE ———
- CONDUIT, BLUE PHASE ———
- ROADS ———
- PEDESTALS ● ●
- CABINETS □



WINNEBAGO

CONDUIT, BLUE PHASE ———

ROADS ———

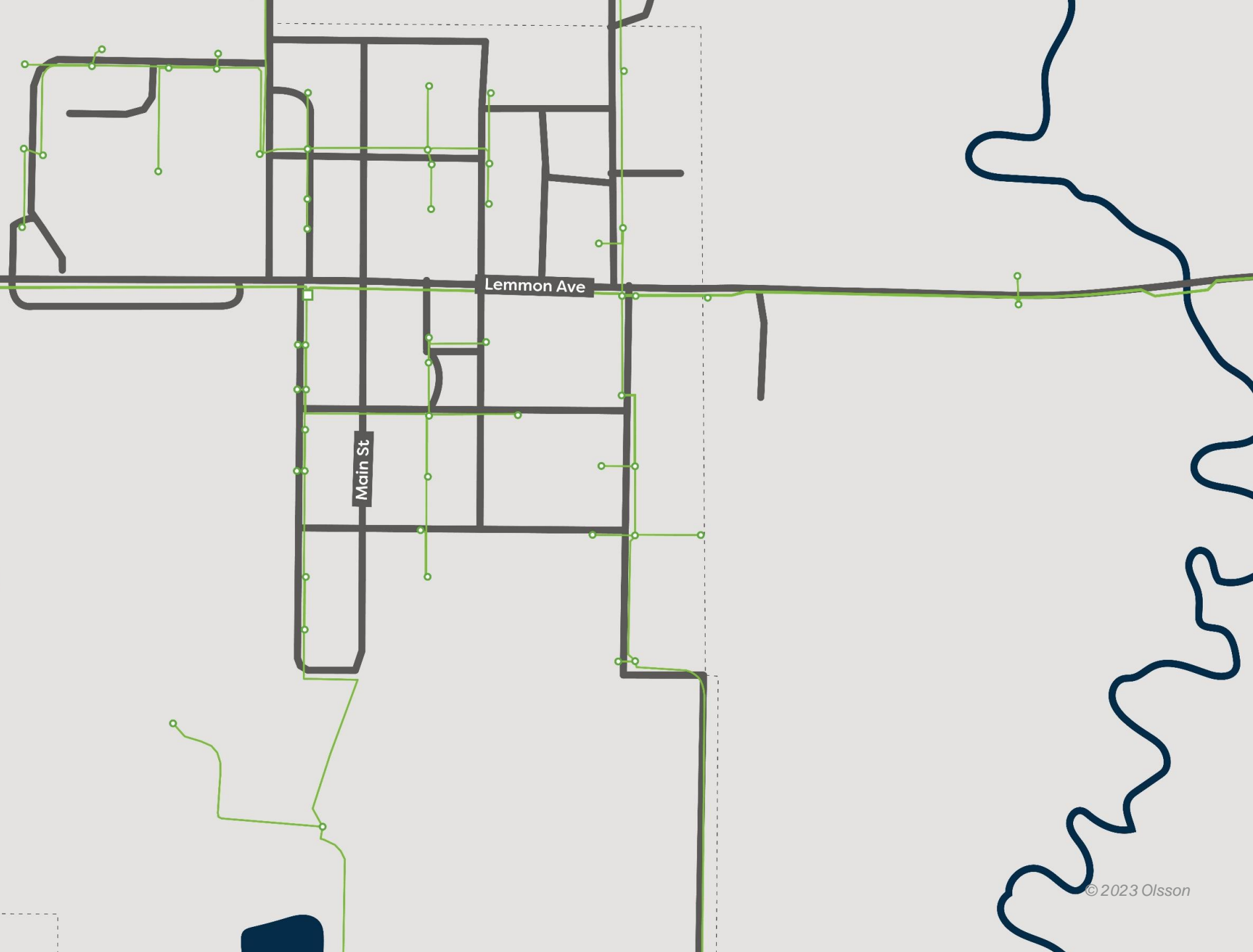
PEDESTALS •

CABINETS ■

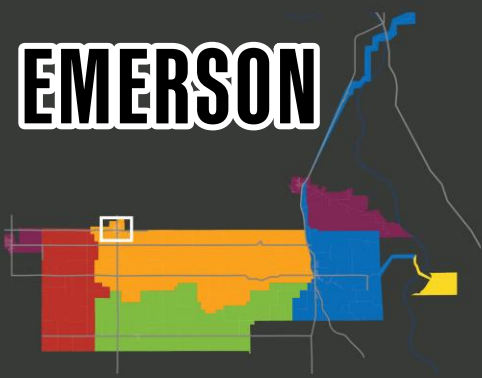
THURSTON



- CONDUIT, GREEN PHASE 
- ROADS 
- PEDESTALS 
- CABINETS 



EMERSON



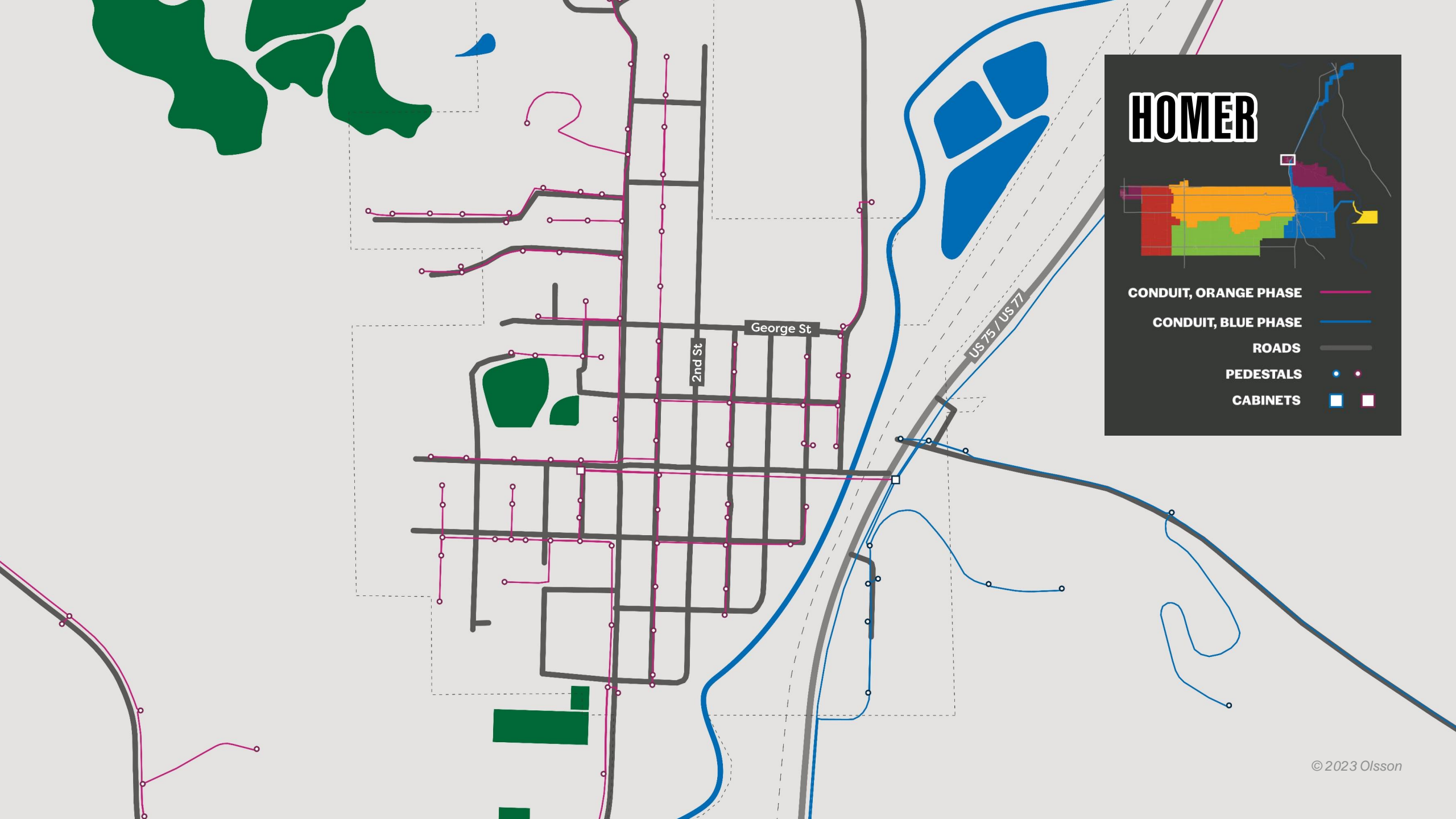
- CONDUIT, ORANGE PHASE 
- ROADS 
- PEDESTALS 
- CABINETS 

590 Rd

N9

1st St

CITY PARK



HOMER

CONDUIT, ORANGE PHASE ————

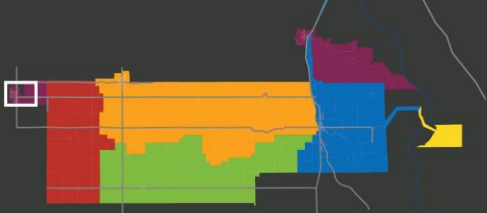
CONDUIT, BLUE PHASE ————

ROADS ————

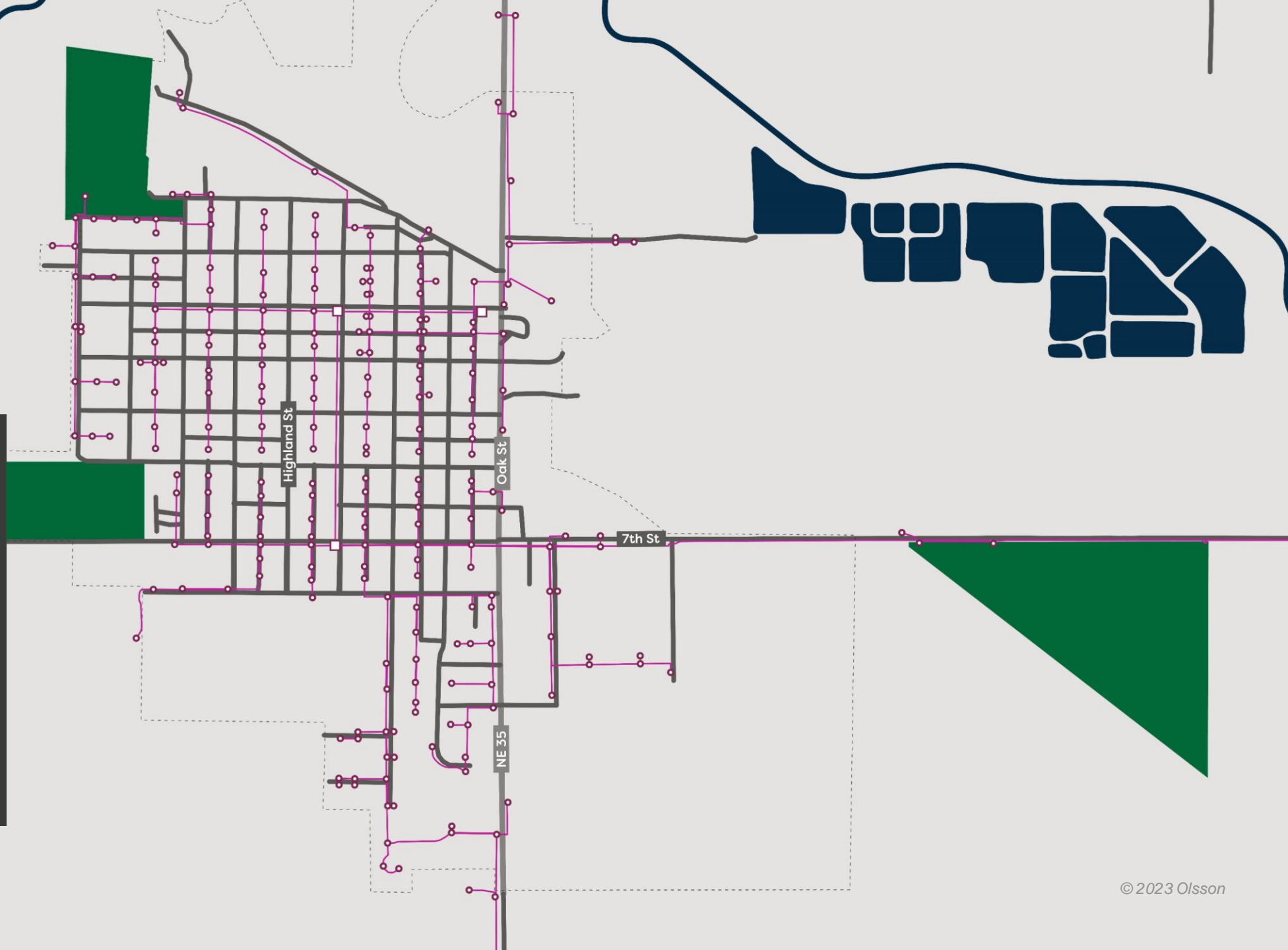
PEDESTALS ● ●

CABINETS □ □

WAKEFIELD



- CONDUIT, PURPLE PHASE 
- ROADS 
- PEDESTALS 
- CABINETS 



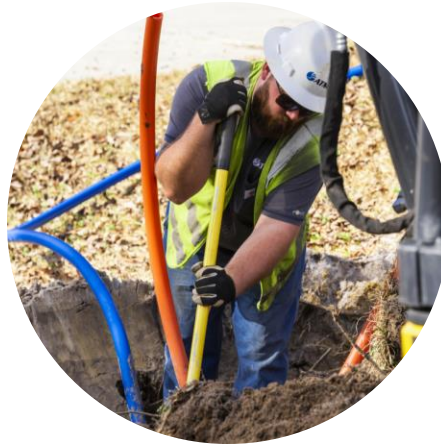
Construction Methodology



Directional Bore



Vibratory Plow



**Placement:
Rear/Front Easement**



**Traditional Methods &
Underground Construction**

PHASE WORK WILL OVERLAP

Construction Methodology



DIRECTIONAL BORE



VIBRATORY PLOW

Schedule



*Contingent on Local, State and Federal Permitting



GOAL: Winter 2024

First group of customers turned on with service

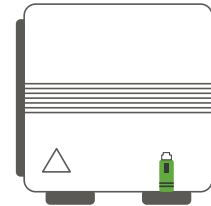
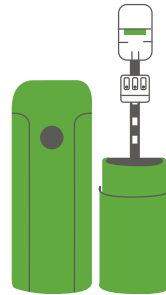
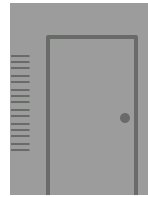
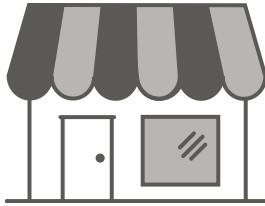
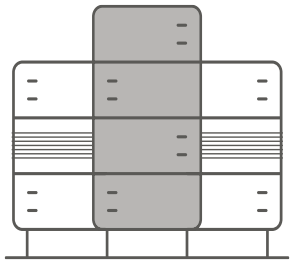
Schedule



TRANSITION

CONSTRUCTION PHASE

WINNEBAGO ISP PHASE



Internet / Carrier Hotel

Build Winnebago ISP Central Office

Fiber Optic Cabinets

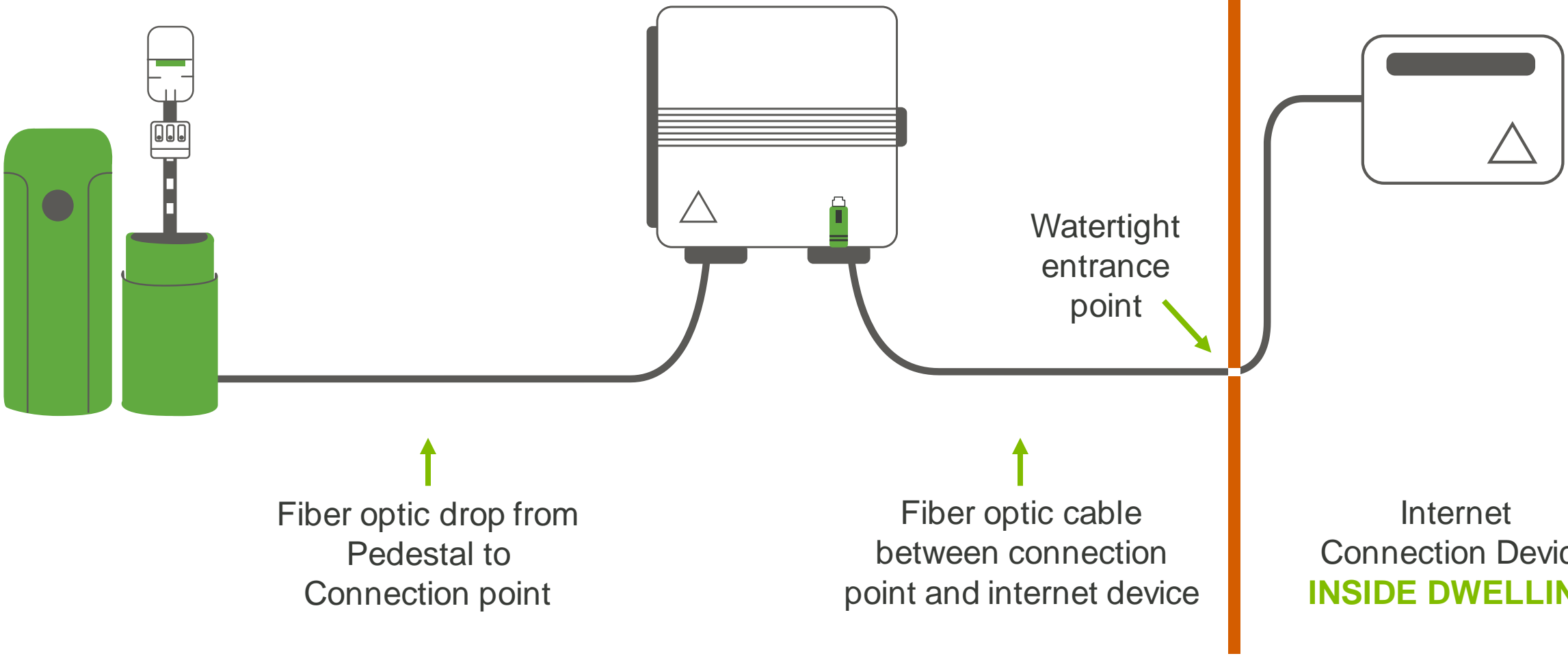
Pedestals

Dwelling Connection Points

Devices Installed in Dwelling



Network Interface Device
OUTSIDE of STRUCTURE



↑
Fiber optic drop from
Pedestal to
Connection point

↑
Fiber optic cable
between connection
point and internet device

↑
Internet
Connection Device
INSIDE DWELLING

Internet Service Provider



STORE FRONT

Order of Events

- Conduit
- Structures
- Fiber
- ISP provider installation

Equipment



FIBER TRANSITION HOUSING (example)



FIBER OPTIC PEDESTAL (example)

Fiber Optic Cabinet



OLT REMOTE SITE (Minimum requirements)



FIELD FIBER OPTIC CABINETS

Questionnaire – We Want to Hear from You!



Head of Household Name*

Address*

Phone Line Type*

Email Contact Available?*

Are you Native American?*

Fiber Drop Entry

- Select/ touch "Map" with finger or cursor if using a computer.
- Where does your current internet or TV enter your residence or business? Gathering this type of information will aid us in a better design for your property.

Entry Photo (Optional)

- Feel free to provide an outside photo of your Fiber Drop Entry.

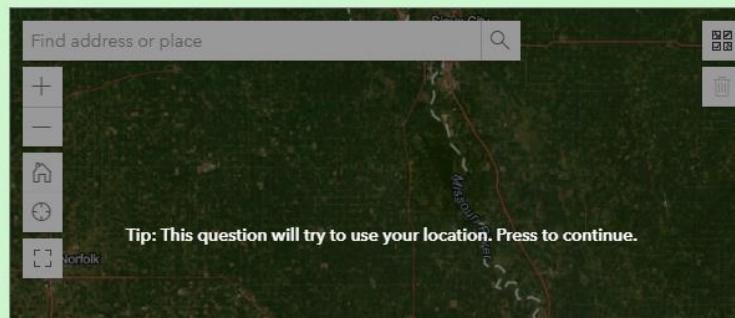
1 Drop image here or select image (number of files allowed: 1 - 2)



Location of Fiber Drop Entry*

Location - Point of Entry for utility services

- Cellular device - location will need to be shared on device, center your location using Circle icon. Ensure you are at your residence.
- Computer - Use your cursor to adjust your location to the "point" of the blue icon.
- Type address - Type in your address and move the point to your dwelling location. (Use the cursor to click on your dwelling).



Please provide 911 Address*

If address is not known enter "unknown"

Service Type(current service)*

Residential

Commercial

Both

I do not currently have internet service

Opt-Out of Service

This survey is only to provide known address points for future service options.

Do you wish to "opt-out" of high-speed fiber internet service?

Signature*

Future Opportunities on Team Winnebago



**TECHNICAL
SUPPORT**



**OFFICE
PERSONNEL**



MANAGEMENT

Training will be provided.

Frequently Asked Questions (FAQ)



CONSTRUCTION

QUALITY ASSURANCE

COMPLAINTS / DAMAGE

SCHEDULE

FUNDING / FEES

SERVICES

Construction Updates

WinnebagoBroadband.com

- Updated construction information
- Link to the questionnaire
- Frequently asked questions

Teddy Frenchman

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Winnebago Tribe of Nebraska*

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**COMING
SOON!**

Winnebago ISP Name

WINNEBAGO

The background image shows a modern building with large windows and a brick facade. In the foreground, there are several tall flagpoles with blue flags. The text is overlaid on a dark grey rectangular box with a white border. The text is in white, with the top line in a large, bold, sans-serif font, a decorative flourish in the middle, and the bottom line in a slightly smaller, bold, sans-serif font.

Hoiwaxra Hiwaxre



Open for Questions