

# State of Idaho Public Broadband Grant Application: Households

Applicant	Richard Beck
Applicant ID	APP-004201
Company Name	Ada County
Recipient Address	Ada County 200 West Front St 3rd Flr Boise, ID 83702
Phone	(208) 287-7915
Email	rbeck@adacounty.id.gov
Amount Requested	\$353,766.00
Status	Submitted
Funded	<input type="checkbox"/>

Application Title: South Cole Broadband Infrastructure

## Applicant Information

**NOTICE: Grant applications, challenges, and responses to challenges will be posted to the Idaho Department of Commerce website**

### Purpose:

#### 1. Program Description

The CARES Act funding received by the State of Idaho will fund projects across the state that create and retain local jobs and result in purposeful outcomes, including distance learning, telehealth public safety, commerce, and overall well-being. This CFAC Broadband Grant initiative grant program (the “Program for Households”) is designed to meet the CARES Act criteria, and help Idaho rebound from the COVID-19 public health emergency. Approximately 70% of the \$50 million received by the Idaho Department of Commerce will be allocated to this program aimed at households that lack access to broadband.

**• Projects must be completed and grant funds requested and dispersed before December 15th, 2020.**

**Question:** Contact information of applicant: Name Title Mailing Address Email Phone

Richard Beck, Interim Director of Ada County Development Services, 200 W. Front Street, Boise, ID 83702, rbeck@adacounty.id.gov, 208-287-7915

**Question:** List the cities/communities where the project(s) will take place.

South Ada County

**Question:** Enter the zip code(s) where the project will take place.

83709

**Question:** Enter name and title of designated grant administrator

Richard Beck, Interim Director of Ada County Development Services

**Question:** Enter the email of the designated grant administrator

rbeck@adacounty.id.gov

**Question:** Enter the phone number of the designated grant administrator

208-287-7915

## Project Requirements

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### Eligible Projects

Projects must meet the following eligibility criteria: The project must:

- Be infrastructure investment, associated equipment, and accessories related to broadband as defined by the FCC: speeds of 25 Mbps download and 3 Mbps upload.
- Meet the CARES Act criteria, which is designed to address key areas of public health and safety by improving opportunities to telework, facilitate distance learning, and improve public safety
- Be a project that serves underbuilt areas and does not overbuild existing broadband service. Underbuilt areas are defined as locations where less than fifty percent (50%) of households in the project area have access to broadband service.
- Include only new broadband service to be installed, owned, and operated by for-profit companies, or membership owned cooperative corporations as defined in [Idaho Code Title 30, Chapter 30](#) that provide broadband services to the public.
- Provide broadband service within the applicant's proposed project area.
- Be completed, operable, paid for, and submitted to the Idaho Department of Commerce for payment no later than December 15, 2020.
- Include broadband infrastructure and equipment costs meeting CARES Act criteria. Satellite service is not eligible for grant award.

**Question:** Does your project meet the CARES Act criteria?

Yes

No

**Question:** Does your project provide a minimum of 25 Mbps Download and 3 Mbps Upload as outlined by the CFAC Committee Recommendation?

Yes

No

**Question:** Does your project provide service to areas where less than 50% of households in the project area has broadband as outlined by the CFAC Committee Recommendation?

Yes

No

**Question:** Include only new broadband service to be installed, owned, and operated by for-profit companies, or membership owned cooperative corporations as defined Idaho Code Title 30, Chapter 30 that provide broadband services to the services to the public.

Yes

No

**Question:** I understand that the State of Idaho will provide no funding and have no obligations for projects that fail to be completed by December 15, 2020.

Yes

No

## Scored Criteria

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**Question:** Provide an overview of the project including why the project is important and will address broadband needs of the community.

This project aims to extend broadband infrastructure south on Cole Road into the Peregrine Fund's World Center for Birds of Prey campus, west to the residential dwellings off of the Vallejo Road network and east down Hollilynn Drive towards Pleasant Valley Road.

The rural setting and overall number of end users within the target improvement area has made it very difficult for service providers to successfully invest in system improvements. Based on available information the only services available in the area are provided by Century link which presently provides up to 1.5Mbps to 12 homes, and by Teckfinitly which offers 5Mbps to 20Mbps to the entire area wirelessly.

Funding this project will not only enable a service provider to provide existing residential dwellings and the Birds of Prey campus with access to high-speed broadband services, but will also establish the groundwork for future expansion and investment for nearby property and the future growth in the area.

**Question:** Is your project in an area where 50% of households is in an unserved area?

- Yes
- No

**Question:** Is your project in an area where more than 50% of households is in an underserved area?

- Yes
- No

**Question:** Is the project in a town/city/municipality of less than 3,000 people?

- Yes
- No

**Question:** How many households may receive broadband service because of this project?

68.00

**Question:** Does the project address a need as identified in a local or regional broadband plan? If yes, please describe.

The need that the proposed project addresses is not specifically identified in a local or regional broadband plan.

## Additional Requirements

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Upload Supporting Documents for scope of project including maps, site plans, studies, or photographs, demonstrating the location of the project.

**Project Attachment Templates:**

[CARES Act Certification](#)

[Grant Budget Template](#)

[Project Schedule Form](#)

[Letters of Support/Community match template](#)

**Question:** Estimated total project cost?

353766.00

**Question:** List the underserved and unserved community facilities (schools, libraries, government offices, hospitals, public safety, etc.) within the proposed project area.

The Peregrine Fund's World Center For Birds of Prey

**Question:** What is the average cost per household of new broadband service based on this project cost?

\$5,280

**Question:** What is the maximum broadband speed that will be provided by the project?

1 GB

**Question:** Are permits, permissions, rights of way and zoning requirements readily available in order for the project to be completed and paid for by December 15, 2020?

Yes

**Question:** If answered no in previous question, please describe. If the project does not require any of the above answer N/A.

N/A

**Question:** Describe how the project will be administered, audited for completion, and accounting performed.

Sparklight will create a Capital Improvement Report. Ada County will monitor administration, progress, schedule and accounting.

**Question:** Include any other information regarding why your project should be considered for funding.

In addition to the Peregrine Fund's World Center for Birds of Prey, the project also will provide 1 commercial business - Black Dog Clays Shooting Range - access to high speed broadband services.

**Question:** Upload Supporting Documents for scope of project including maps, site plans, studies, or photographs, demonstrating the location of the project.

[Location of Project.pdf](#) (7/15/2020 11:29 AM)

**Question:** Upload the completed Grant Budget Template for the project that outlines the various costs.

[Idaho-Cares-Act-Broadband-Grant-Budget-Template.pdf](#) (7/15/2020 3:10 PM)

**Question:** Complete the Project Schedule Form

[Idaho-Cares-Act-Broadband-Grant-Project-Schedule-Template.pdf](#) (7/15/2020 3:11 PM)

**Question:** Include any Letters of Support or Community Match from the community.

[2020-07-10 letter to Ada County re Sparklight internet service.pdf](#) (7/15/2020 11:01 AM)

**Question:** Provide a copy of your Community Broadband Plan if applicable.

No Attachments

**Question:** Provide a notarized CARES Act Certification that this project meets the CARES Act criteria.

[State of ID Broadband Grant CARES Act Certification 07-14-20.pdf](#) (7/15/2020 11:02 AM)

**Question:** Provide commitments from community anchor institutions or public safety networks which will utilize your service if the project is funded.

No Attachments

**Question:** Map of the project area demonstrating the insufficient availability of broadband service (25/3Mbps) in the proposed service area where less than 50% of households have access to broadband.

[Map of Project area demonstrating the insufficient availability of Broadband.pdf](#) (7/15/2020 11:03 AM)

**Question:** Map of the project area which includes the number of households served, the broadband speeds provided, and the technology used to provide that service.

[Households Served - Speeds - Technology Map.pdf](#) (7/15/2020 1:18 PM)

## Signature

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Your identity has been authenticated through the login process with a unique email address and password available only to you. You agree that by typing your name, title and date below, you are electronically signing the application. By electronically signing the application, you acknowledge and represent that you understand and accept all the terms and conditions stated within the application and declare that the information provided is true and that the documents you are submitting in support of your application are genuine and have not been altered in any way.

**Question:** Type your name.

Richard Beck

**Question:** Type your title.

Interim Director of Ada County Development Services

**Question:** Type the submission date.

07-15-2020

Ada County Development Services  
ATTN: Richard Beck  
200 W Front St.  
Boise, ID 83702

Dear Mr. Beck:

I am writing in support of the CARES Act grant which would allow Sparklight to provide broadband internet service to our World Center for Birds of Prey campus in south Ada County.

For several years, our operations have been limited in many ways by the lack of high-speed internet service options. The addition of COVID-19 has increased the need for broadband connectivity since we now have more staff working from home who need to use resources on our network.

In addition, we are ramping up two major initiatives that have a high demand for data transfer. The first, our new POWER Global STEM Classroom, is nearly complete. Its purpose is to implement a free-of-charge 'global field trip' experience for visitors and students across Idaho and beyond. It will provide comprehensive technology to connect Peregrine Fund raptor biologists in the field with visitors at the World Center for Birds of Prey, The Peregrine Fund's educational interpretive center visited by more than 50,000 people annually. Many of these events will also be accessible to remote viewers via live stream and recorded video online. This STEM-based programming will greatly enhance our ability to share our mission and provide deeper learning experiences.

The second initiative is our Global Raptor Impact Network (GRIN). GRIN is an effort to monitor and conserve the world's raptors. GRIN gives raptor researchers tools to more efficiently conduct their own studies while contributing to a global program. GRIN also provides citizen scientists a way to participate in raptor science and conservation. For this project, we need to transfer large amounts of data between our facility and Boise State University. Our current internet capacity limitations are preventing this process from operating effectively.

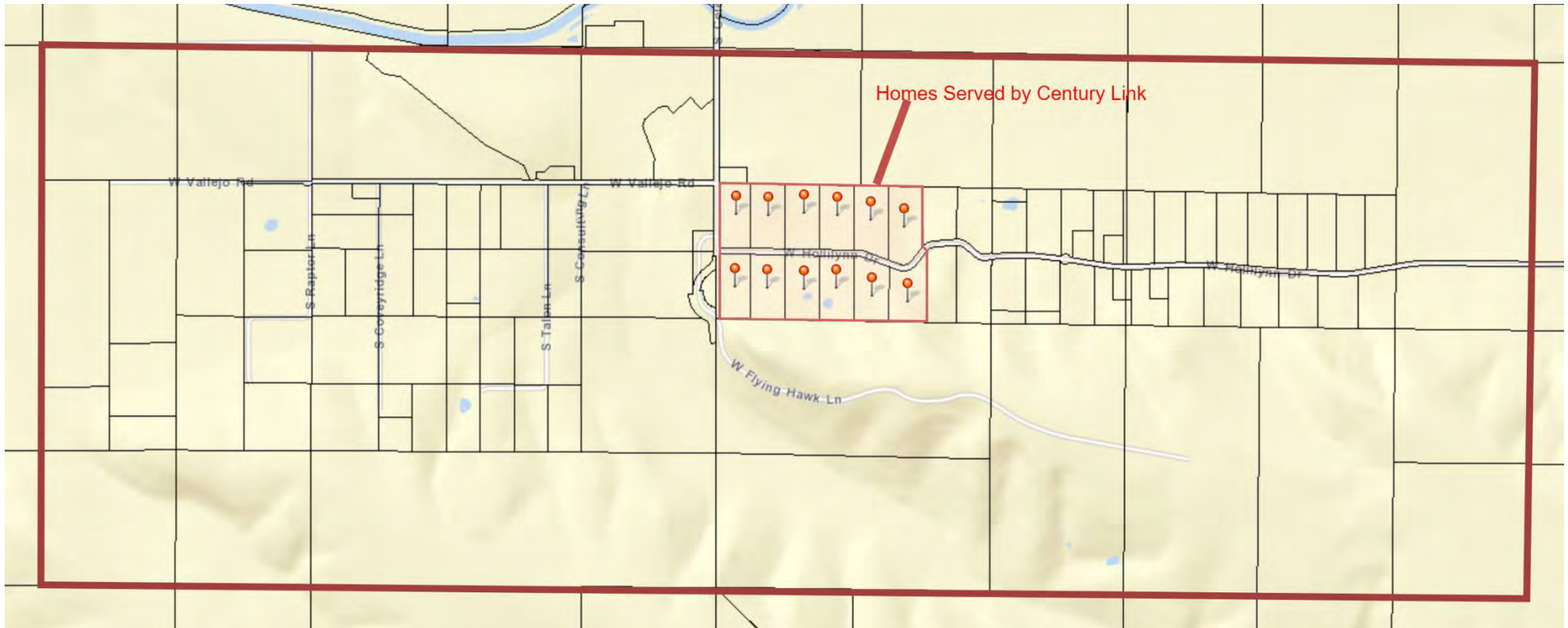
If you require additional information, I'll be more than happy to provide what you need.

Sincerely,

Paul Spurling  
Director of Technology



## Households Served – Broadband Speeds – Technology



Based on available information, the only services offered in the project area are provided by Century link which presently provides up to 1.5Mbps to 12 homes via copper wire DSL, and by Teckfinity which offers 5Mbps to 20Mbps to the entire area wirelessly.





PROJECT AREA

W Amity Rd

S Five Mile Rd

S Maple Rd

W Desert Ave

W Lake Hazel Rd

W Columbia Rd

S Cloverdale Rd

S Pleasant Valley Rd

W Gowen Rd

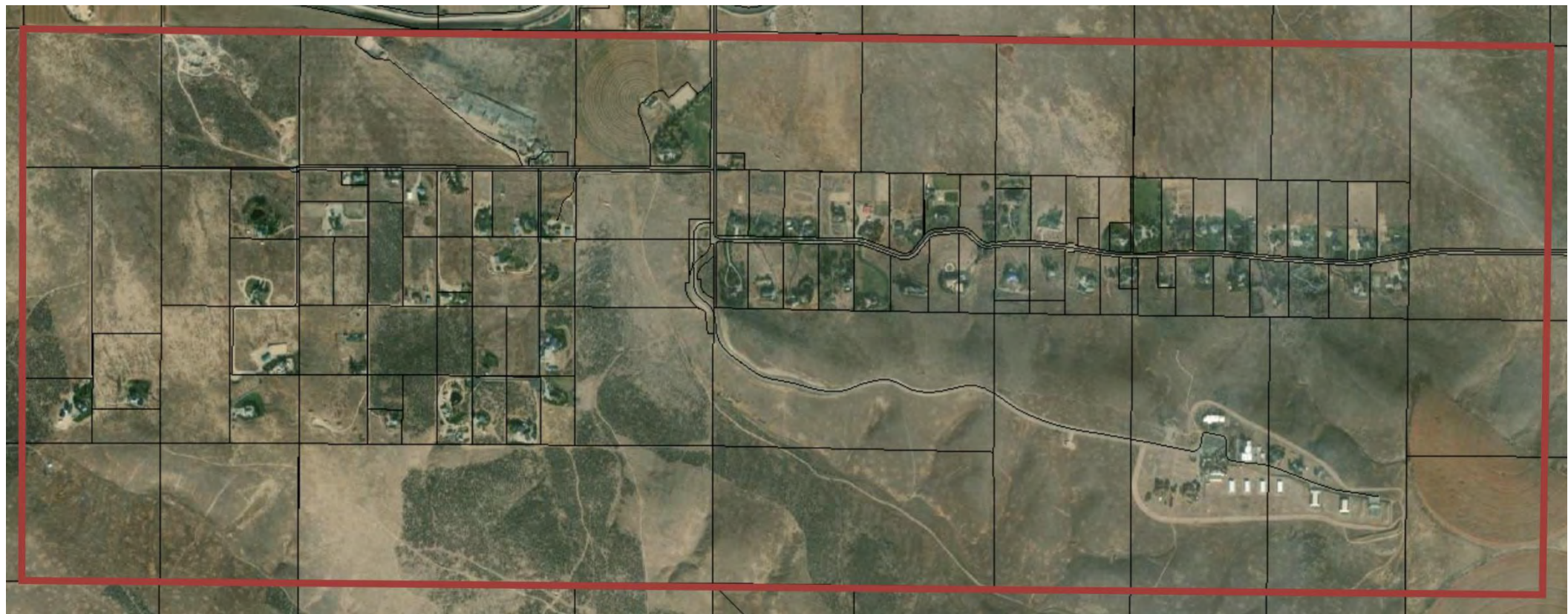
Boise Airport

MTA Gowen  
Field Army  
National Guard

Boise Athletic  
Complex

Boise  
Ranch Golf  
Course

Falcon Crest  
Golf Course







S Cole Rd

W Hollilynn Dr

W Hollilynn Dr

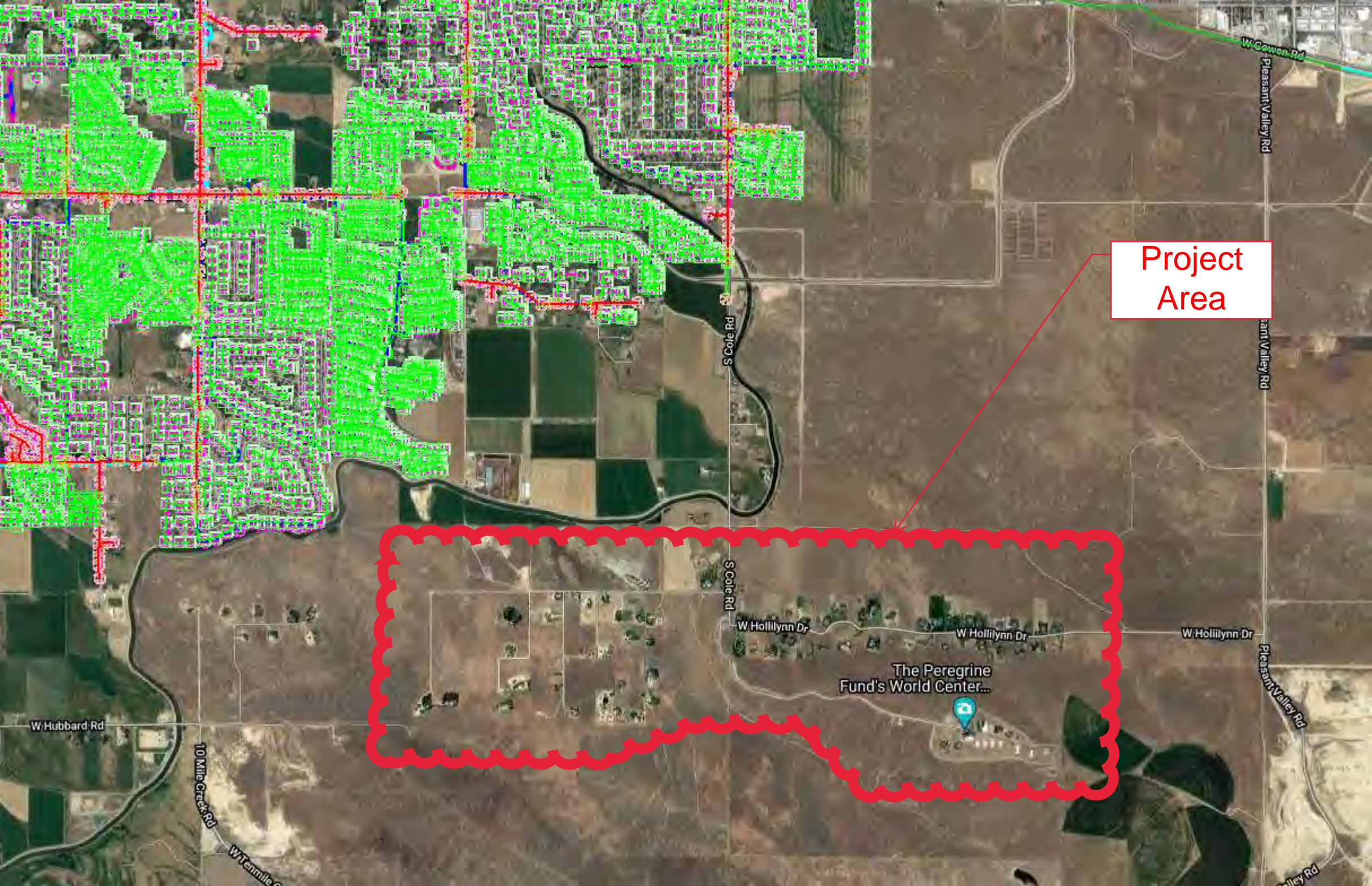
W Hollilynn Dr

W Flying Hawk Ln

W Flying Hawk Ln

Peregrine Fund

W Flying Hawk Ln



Project Area

W Gowan Rd

Pleasant Valley Rd

Pleasant Valley Rd

Pleasant Valley Rd

Valley Rd

S Cole Rd

S Cole Rd

W Hollilynn Dr

W Hollilynn Dr

W Hollilynn Dr

W Hubbard Rd

10 Mile Creek Rd

W Tennile Rd

The Peregrine Fund's World Center...





# ADA COUNTY

COMMISSIONERS'  
OFFICE  
200 W. Front Street  
Boise, Idaho 83702  
(208) 287-7000  
Fax: (208) 287-7009  
boccl@adaweb.net  
www.adacounty.id.gov

## State of Idaho Broadband Grant CARES Act Certification

State of Idaho

County of Ada

The undersigned, Kendra Kenyon, representing Ada County, 200 W. Front St., Boise, ID, hereby swears that:

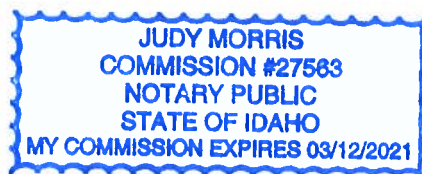
1. I am the Chair of the Board of Ada County Commissioners and thereby authorized to make these statements.
2. I have personal knowledge of the fact herein, and can testify completely thereto.
3. The purpose of this statement is to assure the Idaho Department of Commerce that the project will meet the CARES Act Criteria.
  - i. Expenses to facilitate distance learning, including technological improvements, in connection with school closings to enable compliance with COVID-19 precautions.
  - ii. Expenses to improve telework capabilities for public employees to enable compliance with COVID-19 public health precautions.

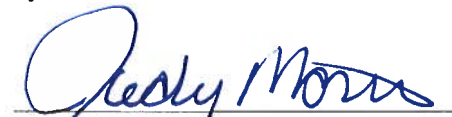
Ada County, along with broadband provider, will furnish infrastructure investment, associated equipment, and accessories related to broadband access. This will benefit underbuilt areas and will address key areas of public health and safety by improving opportunities to telework, facilitate distance learning and improve public safety. These concerns are all within CARES criteria and will help rebound from the COVID-19 public health emergency

  
Kendra Kenyon Chair

Date: 07/14/2020

SUBSCRIBED AND SWORN before me this 14<sup>th</sup> day of July, 2020.



  
Judy Morris  
Residing at: Meridian, ID  
Commission Expires: 03/12/2021



# State of Idaho Public Broadband Grant Application Public Safety/Local Government

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Applicant	Mike Knittel
Applicant ID	APP-004120
Company Name	Emmett
Recipient Address	Emmett 501 E Main St Emmett, ID 83617
Phone	(208) 365-6050
Email	mknittel@cityofemmett.org
Amount Requested	\$577,850.00
Status	Submitted
Funded	<input type="checkbox"/>

Application Title: Emmett Critical Infrastructure and Public Safety Fiber Optics

## Applicant Information

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**NOTICE: Grant applications, challenges, and responses to challenges will be posted to the Idaho Department of Commerce website**

### Purpose:

The CARES Act funding received by the State of Idaho will fund projects across the state that create and retain local jobs and result in purposeful outcomes, including distance learning, telehealth public safety, commerce, and overall well-being. This CFAC Broadband Grant initiative grant program (the "Program for Public Safety and Local Government") is designed to meet the CARES Act criteria, and help Idaho rebound from the COVID-19 Emergency. Approximately 20% of the total of \$50 million received by the Idaho Department of Commerce will be allocated to this program aimed at public safety organizations and local governments that lack access to broadband.

**• Projects must be completed and grant funds requested and dispersed before December 15th, 2020.**

**Question:** Contact information of applicant: Name Title Mailing Address City/Zip Email Phone

Mike Knittel Information Technology Director City of Emmett, 501 E. Main St, Emmett, Idaho 83617 mknittel@cityofemmett.org cell:208.870.7067)

**Question:** List the cities/communities where the project(s) will take place.

City of Emmett and Gem County

**Question:** Enter the zip code(s) where the project will take place.

83617

**Question:** Enter name and title of designated grant administrator

Mike Knittel, Information Technology Director

**Question:** Enter the email of the designated grant administrator

mknittel@cityofemmett.org

**Question:** Enter the phone number of the designated grant administrator

208.398.2100

## Project Requirements

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### PROJECT REQUIREMENTS

- Be infrastructure investment, associated equipment, and accessories related to broadband capable of speeds of 1,000 Mbps download and 1,000 Mbps upload symmetrical.
- Be related to broadband with fiber to:
  - One (1) designated government facility: and
  - One (1) location for public Wi-Fi access where 100 citizens could simultaneously access minimum broadband speeds at 25 Mbps download and 3 Mbps upload while practicing physical distancing. Examples of locations include a municipal building parking area or a municipal park.
- Meet the CARES Act criteria, which is designed to address key areas of public health and safety by improving opportunities to telework, facilitate distance learning, and improve public safety.
- Be a project that does not overbuild existing broadband infrastructure at the required speeds to a local government facility for public safety and local governance.
- Applicants may own and maintain the infrastructure but make such infrastructure open and available for broadband service from only for-profit companies, or membership owned cooperative corporations as defined in [Idaho Code Title 30, Chapter 30](#) that provide broadband services to the services to the public.
- Be completed, operable, paid for, and submitted to the Idaho Department of Commerce for payment no later than December 15, 2020.
- Include broadband infrastructure and equipment costs meeting CARES Act criteria. Satellite service is not eligible for grant award.

**Question:** Does your project meet the CARES Act criteria?

Yes

No

**Question:** Project provides a minimum of 1,000Mbps download and 1,000Mbps upload symmetrical to public facility and access by citizens in municipal park or parking area where a minimum of 100 citizens could have access simultaneously at 25Mbps download/3Mbps upload.

Yes

No

**Question:** Does your project provide high speed service within the applicant's proposed facility for public safety, local governance, and or one (1) open access municipal location nearby for public access for emergencies.

Yes

No

**Question:** Applicants may own and maintain the infrastructure but must make such infrastructure open and available for broadband service from only for-profit companies, or membership owned cooperative corporations that provide broadband services to the public.

Yes

No

**Question:** I understand that the State of Idaho will provide no funding and have no obligations for projects that fail to be completed by December 15, 2020.

Yes

No

## Scored Criteria

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**Question:** Provide an overview of the project including why the project is important and will address broadband needs of the community.

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This project will bring fiber optic connectivity to major critical infrastructure facilities as well as two remaining public safety facilities. Currently the Emmett City Fire Station, the Gem County Fire District #1 station, the City of Emmett Wastewater Treatment Plant, and the Industrial Park water well and sewer lift station facility do not have fiber optic connectivity which is critical to daily operations.

To begin we will start by pulling fiber cable through previously constructed conduit, install new conduit with fiber cable, install two Fiber Huts, and public Wi-Fi hotspots. Previously constructed conduit only for a section of this submitted project is shown by yellow line in included maps providing a City in-kind match to the overall project. This project is shovel ready.

As part of this project two of the facilities, the Wastewater Treatment Plant and the Industrial Park Well Site, will house fiber optic communication huts. These huts will provide rack space for networking equipment for private provider equipment to light the fiber optics. Having these facilities allows for existing and new private providers to mount their equipment and provide service to the surrounding areas that otherwise would be cost prohibitive to serve with fiber optic connectivity. The four public Wi-Fi hot spots across this project will enable citizens to stay connected to telework as well as distance learning for education.

In a small rural city, it is important to be fiscally conservative as well as intelligent in the use of its resources. Emmett City determined it is more cost effective for the city to build out the fiber optic infrastructure to connect all the City's facilities to share those resources of internet connections, servers, phone systems, SCADA systems, and camera systems. A fiber optic infrastructure is key to provide for current and future requirements, and meet the demand for high availability and redundancy.

During COVID-19 closures, the public facilities that were already equipped with fiber optic connectivity were able to easily transition to telework with the broadband capacity needed for multiple public employees to remotely simultaneously. In alignment with the CARES Act criteria, the facilities in this project once connected with fiber optic infrastructure, will bring the same level of telework functionality to public employees. This policy includes the ability to provide fiber optic infrastructure to other local government entities where collaboration will take place, i.e. Emergency Operations Center, fire & EMS. The City is not an internet service provider (ISP), this project will allow for fiber optic infrastructure & facilities to be reasonably available to commercial providers to build out and establish connectivity to local businesses & residents.

**Question:** Is your project in an area where no local government facility has the internet speeds and bandwidth described 1000 Mbps download and 1000 Mbps upload symmetrical?

Yes

No

**Question:** Is your project in an area where no public park, municipal parking area, or similar access area for physical distancing has broadband speed to support 100 citizens at 25 Mbps download and 3 Mbps upload?

Yes

No

**Question:** Is the project in a town/city/municipality of less than 3,000 people?

Yes

No

**Question:** Does the project address a need as identified in a local or regional broadband plan? If yes, please describe.

Yes. As identified in the attached City of Emmett Broadband Plan under the Policy section, this project fulfills bullet points #1 and #2 which prioritize fiber optic infrastructure to city facilities and to other local government facilities.

**Question:** Will this project be in conjunction with another broadband grant for Households?

Yes

No

## Additional Requirements

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Upload Supporting Documents for scope of project including maps, site plans, studies, or photographs, demonstrating the location of the project.

**Project Attachment Templates:**

[CARES Act Certification](#)

[Grant Budget Template](#)

[Project Schedule Form](#)

[Letters of Support/Community match template](#)

**Question:** Estimated total project cost?

577850.00

**Question:** List the underserved and unserved community facilities (schools, libraries, government offices, hospitals, public safety, etc.) within the proposed project area.

Emmett City Fire station, Gem County Fire District #1 station, Emmett Waste Water Treatment Plant, Industrial Park City water well/lift station

**Question:** What is the maximum broadband speed that will be provided by the project?

1,000mbps up/down with ability for 10,000mbps up/down in the future

**Question:** Are permits, permissions, rights of way and zoning requirements readily available in order for the project to be completed and paid for by December 15, 2020?

Yes, we have contacted the necessary organizations to verify this.

**Question:** If answered no in previous question, please describe. If the project does not require any of the above answer N/A.

N/A

**Question:** Describe how the project will be administered, audited for completion, and accounting performed.

A budgetary grant line has been established with the City Clerk's Office. The grant administrator will track all expenditures, invoices, and receipts out of that established budget line. Monthly progress updates will be submitted to the Mayor and City Council for project progress and to ensure project schedule needs are being met. All expenditures and financials by default will be included in the regular yearly audit for the City of Emmett.

**Question:** Include any other information regarding why your project should be considered for funding.

Emmett as the only incorporated city in Gem County, has naturally become the center for public service providers. In our new normal environment, it has become important to our businesses and residents alike to be able to access faster internet services. One of the barriers to better residential/commercial service has been the cost of installing a fiber optic infrastructure versus the rate of return to the ISPs, if they were responsible for constructing a citywide fiber optic infrastructure. The City has tried to maximize all available financial resources to pay for their citywide fiber while giving ISPs a cost-effective way to provide better service to the citizens of this community. The attached Community Match document and support letters demonstrate the City of Emmett's commitment to helping bridge the digital divide in our community. Beyond the CARES Act scope of the project, these new fiber optic connections will service areas for industrial and economic development that currently do not have fiber optic infrastructure in place. The fiber optics will open up the ability for several private service providers to be able to supply the bandwidth required to attract new businesses and allowing those businesses to locate to the Emmett community and remain competitive in the digital economy. All internet service on the fiber optics for this grant will be provided by for-profit internet service providers. This project clearly meets multiple points of intent in the CARES Act funding criteria for both public employees, citizens, and students for distance learning. This project will fulfill a large gap of remaining facilities in our current Broadband Plan and will contribute to closing the digital divide in our community. We appreciate your time, consideration, and ability to help us continue to close the digital divide in our community!

**Question:** Upload Supporting Documents for scope of project including maps, site plans, studies, or photographs, demonstrating the location of the project.

[Commerce Map 3.pdf](#) (7/12/2020 11:55 AM)  
[Commerce Map 2.pdf](#) (7/12/2020 11:55 AM)  
[Commerce Map 1.pdf](#) (7/12/2020 11:54 AM)  
[Response to Question #25.docx](#) (7/12/2020 11:54 AM)

**Question:** Upload the completed Grant Budget Template for the project that outlines the

various costs.

[Emmett Cares-Act-Broadband-Grant-Budget.pdf](#) (7/10/2020 2:35 PM)

**Question:** Complete the Project Schedule Form

[Project Schedule.docx](#) (7/10/2020 2:35 PM)

**Question:** Include any Letters of Support or Community Match from the community.

[City of Emmett Match.pdf](#) (7/8/2020 2:12 PM)

[PR2TA Letter of Support.pdf](#) (7/8/2020 2:09 PM)

[Gem BOCC letter of support.pdf](#) (7/8/2020 2:08 PM)

**Question:** Provide a copy of your Community Broadband Plan if applicable.

[City of Emmett Broadband Plan.docx](#) (7/12/2020 10:01 AM)

**Question:** Provide a notarized CARES Act Certification that this project meets the CARES Act criteria.

[CARES Act Certification.pdf](#) (7/8/2020 2:13 PM)

**Question:** Provide commitments from community anchor institutions or public safety networks which will utilize your service if the project is funded.

[EFD support.PDF](#) (7/12/2020 10:23 AM)

[County Fire Letter of Support.pdf](#) (7/12/2020 10:23 AM)

[Tek-Hut Letter of Support.pdf](#) (7/8/2020 2:14 PM)

**Question:** Map of the project area demonstrating the insufficient availability of broadband service for a public facility symmetrical service and in the proposed public service area for 100 citizens using minimum service.

[Commerce Map 3.pdf](#) (7/12/2020 10:36 AM)

[Commerce Map 2.pdf](#) (7/12/2020 10:35 AM)

[Commerce Map 1.pdf](#) (7/12/2020 10:35 AM)

[Response to Question #32.docx](#) (7/12/2020 10:35 AM)

**Question:** Map of the project area which includes the public facility and public service area, the broadband speeds provided, the fiber, and the technology used to provide the services.

[Commerce Map 3.pdf](#) (7/12/2020 10:38 AM)

[Commerce Map 2.pdf](#) (7/12/2020 10:38 AM)

[Commerce Map 1.pdf](#) (7/12/2020 10:38 AM)

[Response to Question #33.docx](#) (7/12/2020 10:37 AM)

**Signature**

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Your identity has been authenticated through the login process with a unique email address and password available only to you. You agree that by typing your name, title and date below, you are electronically signing the application. By electronically signing the application, you acknowledge and represent that you understand and accept all the terms and conditions stated within the application and declare that the information provided is true and that the documents you are submitting in support of your application are genuine and have not been altered in any way.

**Question:** Type your name.

Mike Knittel

**Question:** Type your title.

Information Technology Director

**Question:** Type the submission date.

07/13/2020



# CARES Fiber Grant Commerce Map

## Section 1



Existing Conduit ONLY, no cable



City Fire Conduit 200ft



County Fire Conduit 100ft

## Section 2



Open Cut No Asphalt 900ft



Open Cut No Asphalt 6400ft



Open Cut No Asphalt 3650ft



Open Cut No Asphalt 135ft



Dir Bore 250ft



Dir Bore 430ft



Dir Bore 130ft



Cable Vault Box



Cable Vault Box



Cable Vault Box



Cable Vault Box



Cable Vault Box



Cable Vault Box



Cable Vault Box



Cable Vault Box



Cable Vault Box



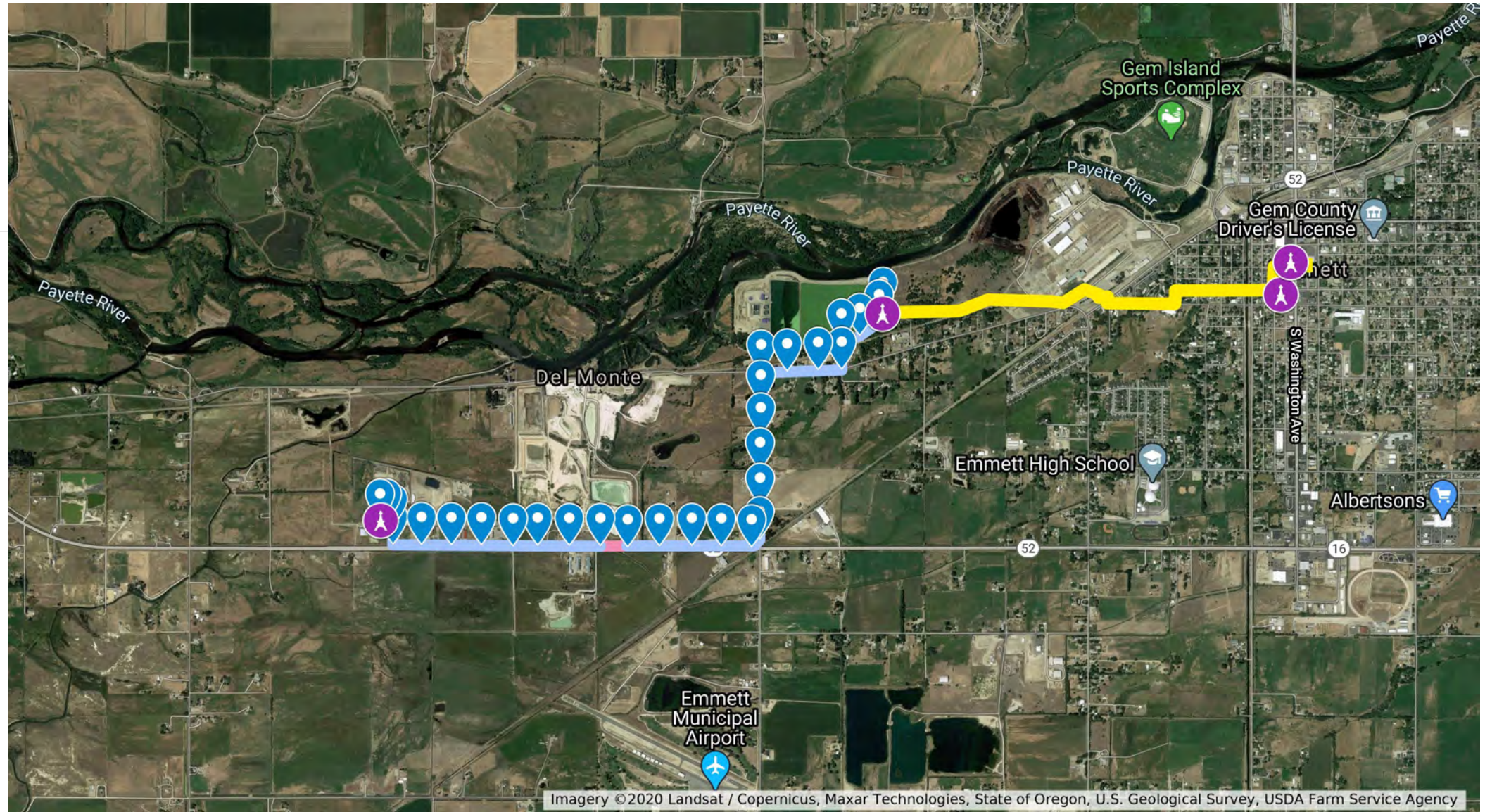
Cable Vault Box



Cable Vault Box



Cable Vault Box



Imagery ©2020 Landsat / Copernicus, Maxar Technologies, State of Oregon, U.S. Geological Survey, USDA Farm Service Agency

 Cable Vault Box

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 County Fire Station & WiFi

 City Fire Station & WiFi



Industrial Park Well, Fiber Hut,  
& WiFi



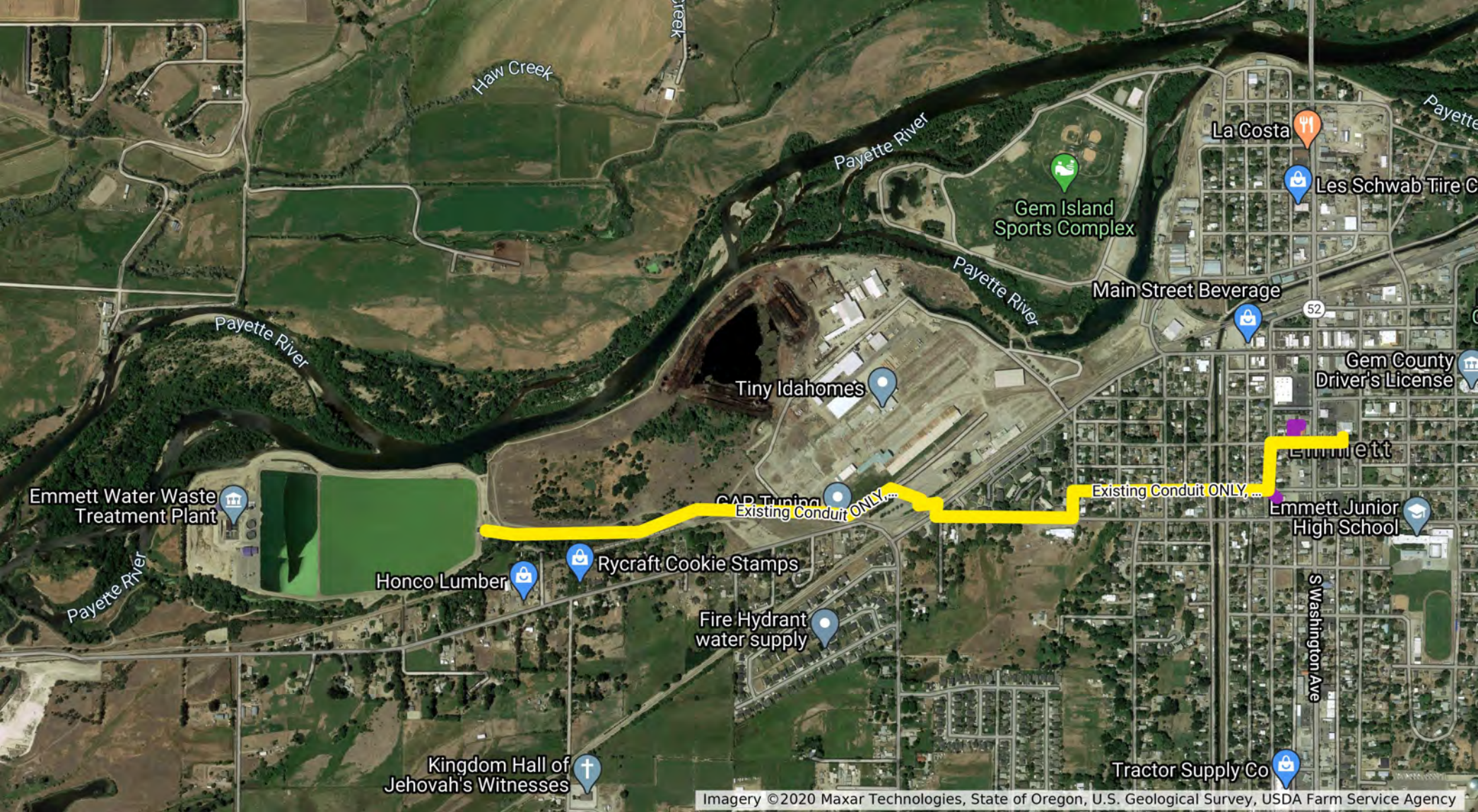
Waste Water Treatment Plant,  
Fiber Hut & WiFi

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# CARES Fiber Grant Commerce Map

Section 1

- Existing Conduit ONLY, no cable
- City Fire Conduit 200ft
- County Fire Conduit 100ft





 Cable Vault Box

 Cable Vault Box

 Cable Vault Box

 Cable Vault Box

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 Cable Vault Box

 Cable Vault Box

 Cable Vault Box

 County Fire Station & WiFi

 City Fire Station & WiFi



Industrial Park Well, Fiber Hut,  
& WiFi



Waste Water Treatment Plant,  
Fiber Hut & WiFi

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Emmett Fire Department

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231 S. Washington

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Emmett, ID 83617

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July 7, 2020

As a representative of Public Safety in the Emmett/Gem County community, the Emmett Fire Departments wanted to express our support for the City of Emmett's application on the Emmett Critical Infrastructure and Public Safety Fiber Optics project.

Having high-speed broadband connections to our public safety facilities is paramount as we move forward in the recovery process and to fulfill public safety connectivity needs in the future. This project will increase the broadband accessibility and capacity to the critical infrastructure facilities identified in this project.

In Service,

Curt Christensen

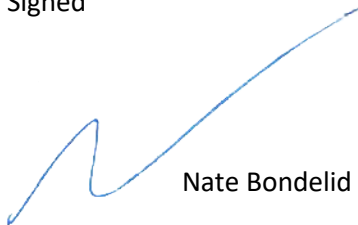
Fire Chief Emmett

As a broadband internet service provider in the Emmett community, we wanted to express our support for the City of Emmett's application on the Emmett Critical Infrastructure and Public Safety Fiber Optics project.

As we have found our new normal of living, our ability to work through the virtual world continues to be significant to keeping our communities moving forward. Education, telehealth and public safety have remained priorities at the forefront of the recovery. This project will increase the broadband accessibility and capacity in the critical infrastructure facilities identified in the project.

Thank you for your time and consideration.

Signed

A handwritten signature in blue ink, appearing to read 'Nate Bondelid', written over a light blue horizontal line.

Nate Bondelid

**Fire Chief**

Rick Welch

Office: 208-365-2012

Cell: 208-859-4775



**Commissioners**

Earl Defur

A Ralph Gurney

Jim Brinkerhoff

As a representative of Public Safety in the Emmett/Gem County community, the Gem County Fire, Emergency Medical Services would like to express our support for the City of Emmett's application on the Emmett Critical Infrastructure and Public Safety Fiber Optics project.

Having high-speed broadband connections to our public safety facilities is paramount as we move forward in the recovery process and to fulfill public safety connectivity needs in the future. This project will increase the broadband accessibility and capacity to the critical infrastructure facilities identified in this project.

Thank you for your time and consideration.

Sincerely

A handwritten signature in black ink, appearing to read "R. Welch".

Gem County Fire District 1

Fire Chief, Rick Welch



**Idaho CARES Act Broadband Grant Budget**

<b>Line Item</b>	<b>Grant Dollars</b>				<b>Total</b>
<b>Totals</b>					

July 7, 2020

Director Tom Kealey  
Department of Commerce  
700 W State Street  
PO Box 83720  
Boise, Idaho 83720-0093

Re: Idaho CARES Act Broadband Grant Opportunity

Dear Director Kealey

In these unprecedented times of COVID, our system of delivery of education has been tested. The forced virtual delivery of curriculum to our students has shown us there are gaps in our current network system in our community, especially with the have and the have nots. The educational team had to not only create online lessons for those at home, but then also print off copies of the lessons for those students who did not have the broadband ability at their house to connect to the digital classroom.

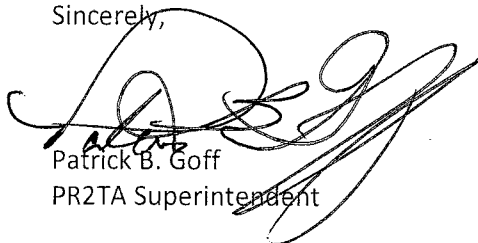
It has become apparent that communication in all forms is very important. As we have found our new normal of living, our ability to work and educate through the virtual world continues to be significant to keeping our communities moving forward. Education, telehealth and public safety have remained priorities at the forefront of our recovery.

We support the City of Emmett's application to bolster our broadband capacity for the benefit of our community's public safety. Increasing the accessibility and capacity of broadband between their facilities housing fire and emergency medical services and critical infrastructure of the city itself is important. It will also be there to benefit the education of all students in the coming days if there should be another outbreak or pandemic in the future.

The Emmett Critical infrastructure and Public Safety Fiber Optics project will be constructed and implemented within the city limits as well as into areas of the county. Increasing the capacity of the community's fiber optics network for public safety will positively impact our educational delivery to the students of Emmett and parts of Gem County.

We believe that this project meets the criteria of the CARES Act and would greatly benefit the City of Emmett and Gem County. Thank you for your consideration.

Sincerely,



Patrick B. Goff  
PR2TA Superintendent



**CITY OF EMMETT**  
**OFFICE OF THE CLERK**  
501 E. Main Street  
Emmett, Idaho 83617  
208-365-6050

Gordon Petrie, Mayor  
Lyleen Jerome, City Clerk  
Jake Sweeten, Attorney

**Councilmen:**  
Steve Nebeker (Pres)  
Michelle Welch  
Thomas Butler  
Tona Henderson  
Gary Resinkin  
Denise Sorenson

**State of Idaho Broadband Grant  
CARES Act Certification**

State of Idaho  
County of Gem

The undersigned, Gordon Petrie, representing the City of Emmett, 501 E. Main St. Emmett, ID 83617, hereby swears (affirms) that:

1. I am Mayor of the City of Emmett and thereby authorized to make these statements.
2. I have personal knowledge of the facts herein, and can testify completely thereto.
3. The purpose of this statement is to assure the Idaho Department of Commerce that the project will meet the CARES Act Criteria. Further guidance can be found [here](#) and [here](#).
  - i. Expenses to facilitate distance learning, including technological improvements, in connection with school closings to enable compliance with COVID-19 precautions.
  - ii. Expenses to improve telework capabilities for public employees to enable compliance with COVID-19 public health precautions.

- Expenses to facilitate distance learning, including technological improvements, in connection with school closings to enable compliance with COVID-19 precautions.
  - As part of this project, WiFi hotspots will be deployed at facilities identified in the project map. These facilities will allow for students and the public to connect to the internet for distance learning while maintaining social distancing guidelines.
- Expenses to improve telework capabilities for public employees to enable compliance with COVID-19 public health precautions.
  - Through the connections at the facilities identified in the project map, first responders will be able to remote work for administrative duties at their respective fire agencies.
  - Public Works employees will be able to telework to monitor and control Water and Waste Water facilities and systems. Current software that controls the systems can be configured for remote work. Reliable fiber optic connectivity to these facilities will ensure remote work capabilities for staff to maintain social distancing. This will also provide for redundancy opportunities since these are identified as Critical Infrastructure for the community.

*[Handwritten Signature]*

Signature

1 JUL 2020

Date

SUBSCRIBED AND SWORN before me on this

1st

day of

July 2020



*[Handwritten Signature: Stephanie Johnson]*

Notary Public for State of Idaho

Residing at: Emmett, Lem County

Commission Expires: 7-1-2025

**Idaho CARES Act Broadband Grant  
Match**

Community: City of Emmett

Contributor name (& title): City of Emmett Public Works Department

Agency/Business: City of Emmett

**DESCRIPTION OF DONATION:**

Date: 7-7-20

The City of Emmett Public Works Department has procured and installed 7,800 feet of conduit for this project. The referenced conduit is depicted in the project map as a yellow line. Contributed costs listed below include the cost of conduit, asphalt replacement, and labor. The cost of the fiber optic cable is also included which we have purchased but not yet installed.

Total Amount Contributed to Project    \$ 52,260

I hereby certify that the above listed contributions have been made in the amount (s) shown.

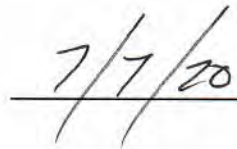


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Contributor Signature

Clint Seamons

Public Works Director



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Question 32:

The included PDF maps as well as the link to the interactive map, [www.cityofemmett.org/grant](http://www.cityofemmett.org/grant), depict the project area. As the IT Director I can attest to the fact that none of the facilities in the project scope have fiber optics or any other media that can support 1000mpbs download or 1000mbps upload broadband speeds.

All facilities have area around them for the public to socially distance and connect to the public access Wi-Fi in the required numbers and at the required speeds.

Question 33:

The included PDF maps as well as the link to the interactive map, [www.cityofemmett.org/grant](http://www.cityofemmett.org/grant), depict the project area.



The sections of the map with this symbol represent the termination points for the fiber optic infrastructure that will deliver the 1000mbps up/down to the facility utilizing fiber connected networking equipment. This equipment is also what the Wi-Fi hotspots will run off of to deliver broadband to the public in the surrounding area(s) at the required speeds.

The fiber optic infrastructure will have the ability to handle not only the minimum required 1000mbps (1gig) connectivity, but also up to 10,000mbps (10gig) connectivity now and up to 100,000mbps (100gig) in the future. These speeds are symmetrical, both up and down. Service on the fiber will be provided by a private service provider as required by this grant.

Question 25:

We have setup an easy to use interactive map that the review committee can use to view various parts of the project. We feel this could be easier to zoom than the included PDF maps. Please visit [www.cityofemmett.org/grant](http://www.cityofemmett.org/grant) to access the interactive map.



## Idaho CARES Act Broadband Grant – Project Schedule

<b>Activity</b>	<b>Responsible Party</b>	<b>Start Date</b>	<b>End Date</b>
Grant Contract Approval	City of Emmett	August 11 <sup>th</sup> , 2020	Same
Procurement of Materials	City of Emmett	August 12 <sup>th</sup> , 2020	September 2020
Award of Contract for Installation	City of Emmett	September 2020	September 2020
Installation of Conduit to Fire Departments	Contractor	September 14 <sup>th</sup>	September 18 <sup>th</sup>
Installation of Fiber Optic Cable to Fire Departments and Waste Water Treatment Plant	Contractor	September 21 <sup>st</sup>	September 25 <sup>th</sup>
Conduit and Box Installation to Industrial Park Well	Contractor	October 1 <sup>st</sup>	October 31 <sup>st</sup>
Communication Huts Installation	City of Emmett	November 2 <sup>nd</sup>	November 6 <sup>th</sup>
Installation of Fiber Optic Cable from Waste Water Treatment Plant to Industrial Park Well	Contractor	November 9 <sup>th</sup>	November 13 <sup>th</sup>
WiFi Installation to all locations	City of Emmett	November 16 <sup>th</sup>	November 20 <sup>th</sup>
Grant Finalization and submission to Dept of Commerce	City of Emmett	November 23 <sup>rd</sup>	November 27 <sup>th</sup>

# City of Emmett Broadband Plan

The City of Emmett has identified Broadband as critical infrastructure and an essential component to the economic and educational vibrancy of our community.

## **Current and Future Needs for Municipal Systems**

In 2015 the priority was established to interconnect all of the City's facilities to share resources such as internet connections, servers, phone systems, SCADA systems, and camera systems. In order to achieve the current and future needs and meet the demand for high availability and redundancy, a fiber optic infrastructure would be key. We continue to see a consistent growth demand across all departments for broadband based components and systems.

It was determined to be more cost effective for the city to build out the fiber optic infrastructure. The fiber optic utility would be owned and operated by the city and would have a much higher ROI than leasing infrastructure from a private provider at a higher cost with reduced speeds.

## **Emmett's Broadband Policy**

The prioritization of fiber optic infrastructure deployment:

- Establish fiber optic infrastructure to all city facilities including municipal buildings, water well/booster stations, waste water facilities/lift stations, and city parks.
- Fiber optic infrastructure to other local government entities where collaboration will take place. (Example: Emergency Operations Center)
- Allow for fiber optic infrastructure and facilities to be reasonably available to commercial providers to build out and establish connectivity to local businesses.
- Allow for fiber optic infrastructure and facilities to be reasonably available to commercial providers to build out and establish connectivity to local residences.

## **Strategies**

Creating a new fiber optic city-wide infrastructure is expensive. In order to ease the burden and proceed in an affordable and cost effective manner, the city proposes the following:

- Seek grant funding to assist in paying for the cost of building the broadband infrastructure
- Maximize use of open trenching created through other public utility installations such as water, sewer, road repair and construction.
- Lay multiple conduits in each trench, allowing the city use of one for the backbone of their network, and the other conduits for use by multiple ISP providers to string fiber – providing competitive pricing for service

## **Model**

The City of Emmett naturally has geographically diverse sections of property throughout our community that require broadband access to function. Sites include City Hall, Fire Stations, Library, Public Works, Water Tower, Water Treatment Plant, Waste Water Treatment plant, and various well and sewer lift station sites. These sites are located not only within City limits but the City Waste Water Treatment Plant is located outside of the City's limits and several wells are located outside of the City's area of impact.

These city facility sites not only require broadband services but also need to have space to house either Fiber Optic Communication Hut or network equipment rack space or a combination of both. Backup power generation is necessary at each site in cases of electrical power interruptions. This redundancy protects and enhances the city's capability to provide consistent public protection, and water and sewer services to its citizens.

**Non-compete**

The City of Emmett is not an internet service provider (ISP). We recognize the distinct separation of the infrastructure/wire and the service. With this distinction in mind, it allows the city to provide an ecosystem in which the fiber optic backbone is considered open access. This would allow for multiple internet service providers to leverage the fiber optic backbone and to co-locate equipment within city facilities. This model does not put the city in direct competition with the private service providers but allows for a competitive atmosphere as well as a lower barrier of entry to market for smaller ISPs.

# State of Idaho Public Broadband Grant Application Public Safety/Local Government

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Applicant	Lee Belt
Applicant ID	APP-004220
Company Name	Greenleaf
Recipient Address	Greenleaf 20523 Whittier Dr Greenleaf, ID 83626
Phone	(208) 454-0552
Email	clerk@greenleaf-idaho.us
Amount Requested	\$395,000.00
Status	Submitted
Funded	<input type="checkbox"/>

Application Title: Greenleaf Public Safety Fiber and WiFi Project

## Applicant Information

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**NOTICE: Grant applications, challenges, and responses to challenges will be posted to the Idaho Department of Commerce website**

### Purpose:

The CARES Act funding received by the State of Idaho will fund projects across the state that create and retain local jobs and result in purposeful outcomes, including distance learning, telehealth public safety, commerce, and overall well-being. This CFAC Broadband Grant initiative grant program (the “Program for Public Safety and Local Government”) is designed to meet the CARES Act criteria, and help Idaho rebound from the COVID-19 Emergency. Approximately 20% of the total of \$50 million received by the Idaho Department of Commerce will be allocated to this program aimed at public safety organizations and local governments that lack access to broadband.

**• Projects must be completed and grant funds requested and dispersed before December 15th, 2020.**

**Question:** Contact information of applicant: Name Title Mailing Address City/Zip Email Phone

City of Greenleaf, Lee Belt, City clerk 20523 Whittier Drive, Greenleaf, ID 83626  
clerk@greenleaf-idaho.us 208.454.0552

**Question:** List the cities/communities where the project(s) will take place.

City of Greenleaf

**Question:** Enter the zip code(s) where the project will take place.

83626

**Question:** Enter name and title of designated grant administrator

Tina Wilson, Executive Director of Western Alliance for Economic Development

**Question:** Enter the email of the designated grant administrator

tina@westernallianceed.org

**Question:** Enter the phone number of the designated grant administrator

2086156083

## Project Requirements

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### PROJECT REQUIREMENTS

- Be infrastructure investment, associated equipment, and accessories related to broadband capable of speeds of 1,000 Mbps download and 1,000 Mbps upload symmetrical.
- Be related to broadband with fiber to:
  - One (1) designated government facility: and
  - One (1) location for public Wi-Fi access where 100 citizens could simultaneously access minimum broadband speeds at 25 Mbps download and 3 Mbps upload while practicing physical distancing. Examples of locations include a municipal building parking area or a municipal park.
- Meet the CARES Act criteria, which is designed to address key areas of public health and safety by improving opportunities to telework, facilitate distance learning, and improve public safety.
- Be a project that does not overbuild existing broadband infrastructure at the required speeds to a local government facility for public safety and local governance.
- Applicants may own and maintain the infrastructure but make such infrastructure open and available for broadband service from only for-profit companies, or membership owned cooperative corporations as defined in [Idaho Code Title 30, Chapter 30](#) that provide broadband services to the services to the public.
- Be completed, operable, paid for, and submitted to the Idaho Department of Commerce for payment no later than December 15, 2020.
- Include broadband infrastructure and equipment costs meeting CARES Act criteria. Satellite service is not eligible for grant award.

**Question:** Does your project meet the CARES Act criteria?

Yes

No

**Question:** Project provides a minimum of 1,000Mbps download and 1,000Mbps upload symmetrical to public facility and access by citizens in municipal park or parking area where a minimum of 100 citizens could have access simultaneously at 25Mbps download/3Mbps upload.

Yes

No

**Question:** Does your project provide high speed service within the applicant's proposed facility for public safety, local governance, and or one (1) open access municipal location nearby for public access for emergencies.

Yes

No

**Question:** Applicants may own and maintain the infrastructure but must make such infrastructure open and available for broadband service from only for-profit companies, or membership owned cooperative corporations that provide broadband services to the public.

Yes

No

**Question:** I understand that the State of Idaho will provide no funding and have no obligations for projects that fail to be completed by December 15, 2020.

Yes

No

## Scored Criteria

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**Question:** Provide an overview of the project including why the project is important and will address broadband needs of the community.

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The project includes fiber construction along Highway 19/Simplot Blvd for 3 miles, ending at the Greenleaf City Hall with a Wi-Fi hot spot available to the public.

Greenleaf is at the end of everyone else's service area. This includes internet, fire, EMS and Law enforcement services. As the end of everyone else line of service, bandwidth is often just not there for residential, business or public safety. In searching for asynchronous service, providers always say, yes we can provide if you pay for it and the monthly fees to maintain it after the build were averaging \$2,300 a month. No small city can afford that heavy monthly burden for internet. Syringa has quoted a monthly fee of \$495 far more affordable for a small city.

In reviewing regional plans available from the ISPs providing service in Canyon County, it is not on anyone's radar to upgrade fiber services to Greenleaf within the next several years. However there are housing development projects in the works currently that will add over 200 roof tops to this small community placing a demand upon city services.

Having this grant opportunity allows Greenleaf to be the beginning of the service, giving city hall asynchronous service for providing internet to cover the city and a public Wi-Fi accessible to its citizens for long distance learning, by first responders and city employees to work remotely. Having this foundation laid by Syringa will allow the city in the future to connect all of the city cites needing access for SCADA systems and remote monitoring.

COVID 19 has changed everyone normal life, work and play. With remote workers at home, the existing bandwidths accessible have shrunk. Internet Speeds have slowed down with increased usage, stretching capacities to their limits across existing fiber optic systems. To have the ability to be the beginning internet source for the city and its residents would help to keep Greenleaf competitive with its neighboring communities who are not at the end of the ISPs infrastructure.

**Question:** Is your project in an area where no local government facility has the internet speeds and bandwidth described 1000 Mbps download and 1000 Mbps upload symmetrical?

Yes

No

**Question:** Is your project in an area where no public park, municipal parking area, or similar access area for physical distancing has broadband speed to support 100 citizens at 25 Mbps download and 3 Mbps upload?

Yes

No

**Question:** Is the project in a town/city/municipality of less than 3,000 people?

Yes

No

**Question:** Does the project address a need as identified in a local or regional broadband plan? If yes, please describe.

Yes, Broadband plan goals 1, 2, & 3

**Question:** Will this project be in conjunction with another broadband grant for Households?

Yes

No

## Additional Requirements

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Upload Supporting Documents for scope of project including maps, site plans, studies, or photographs, demonstrating the location of the project.

**Project Attachment Templates:**

[CARES Act Certification](#)

[Grant Budget Template](#)

[Project Schedule Form](#)

[Letters of Support/Community match template](#)

**Question:** Estimated total project cost?

395000.00

**Question:** List the underserved and unserved community facilities (schools, libraries, government offices, hospitals, public safety, etc.) within the proposed project area.

City Hall, City Wastewater Treatment Plant, backup/remote access to SCADA systems,

**Question:** What is the maximum broadband speed that will be provided by the project?

1000 bps up/down

**Question:** Are permits, permissions, rights of way and zoning requirements readily available in order for the project to be completed and paid for by December 15, 2020?

yes

**Question:** If answered no in previous question, please describe. If the project does not require any of the above answer N/A.

n/a

**Question:** Describe how the project will be administered, audited for completion, and accounting performed.



A budgetary grant line has been established with the City Clerk's Office. The City Treasurer will track all expenditures, invoices, and receipts out of that established budget line. Monthly progress updates will be submitted to the Mayor and City Council for project progress and to ensure project schedule needs are being met. All expenditures and financials by default will be included in the regular yearly audit for the City of Greenleaf.

**Question:** Include any other information regarding why your project should be considered for funding.

The City of Greenleaf is in the rural heart of Canyon County with a population of about 900. With the lowest taxing levy rate in the county, the city has tried to be mindful of spending its tax dollars wisely trying to be mindful of what is affordable. The city could not on its own afford to fund this project. To our knowledge the city is not at the top of any ISP providers list to provide this service organically in the next 12- 24 months. Thank you for your consideration

**Question:** Upload Supporting Documents for scope of project including maps, site plans, studies, or photographs, demonstrating the location of the project.

[Response to CARES Funding\\_Greenleaf.docx](#) (7/15/2020 3:59 PM)

[City of Greenleaf - Public WiFi - Grant Application SOWv4.pdf](#) (7/15/2020 2:48 PM)

**Question:** Upload the completed Grant Budget Template for the project that outlines the various costs.

[Greenleaf Cares-Act-Broadband-Grant-Budget.pdf](#) (7/15/2020 4:01 PM)

[Quote 2417.pdf](#) (7/15/2020 11:43 AM)

**Question:** Complete the Project Schedule Form

[Greenleaf Cares-Act-Broadband-Grant-Project Schedule.pdf](#) (7/15/2020 2:49 PM)

**Question:** Include any Letters of Support or Community Match from the community.

**No Attachments**

**Question:** Provide a copy of your Community Broadband Plan if applicable.

[Greenleaf Broadband Plan 20200710.pdf](#) (7/15/2020 11:39 AM)

**Question:** Provide a notarized CARES Act Certification that this project meets the CARES Act criteria.

[Greenleaf Idaho Broadband Grant CARES Act Certification.pdf](#) (7/13/2020 2:20 PM)

**Question:** Provide commitments from community anchor institutions or public safety networks which will utilize your service if the project is funded.

**No Attachments**

**Question:** Map of the project area demonstrating the insufficient availability of broadband service for a public facility symmetrical service and in the proposed public service area for 100 citizens using minimum service.

[Question 32 Greenleaf.docx](#) (7/15/2020 3:31 PM)

[Syringa Networks fiber build route.jpg](#) (7/15/2020 3:30 PM)

**Question:** Map of the project area which includes the public facility and public service area, the broadband speeds provided, the fiber, and the technology used to provide the services.

[Question 33 Greenleaf.docx](#) (7/15/2020 3:27 PM)

[Syringa Networks fiber build route.jpg](#) (7/15/2020 3:26 PM)

## Signature

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Your identity has been authenticated through the login process with a unique email address and password available only to you. You agree that by typing your name, title and date below, you are electronically signing the application. By electronically signing the application, you acknowledge and represent that you understand and accept all the terms and conditions stated within the application and declare that the information provided is true and that the documents you are submitting in support of your application are genuine and have not been altered in any way.

**Question:** Type your name.

Tina Wilson

**Question:** Type your title.

Executive Director Western Alliance for Economic Development

**Question:** Type the submission date.

07/15/2020

STRATEGIC. FLEXIBLE. RELIABLE. ACCOUNTABLE. SUPERIOR.

flextechs

# STATEMENT OF WORK

## Public WiFi

Prepared For

City of Greenleaf

Congratulations on choosing a superior service provider! Here is what you can expect:

- A business partner driven by the highest standards for customer service.
- A carefully selected staff of IT professionals.
- A service model that emphasizes resulting value. This is visible in our services, in our documentation, and in our communication.
- Technology solutions that are not oversold. We employ the right technologies for your organization, delivering value and simplicity.
- An ITIL standards-based documentation library for your resulting IT systems and processes.

FLEXTECHS, LLC  
14 JUL 2020  
Document ID: 1.0a

## SOLUTIONS SUMMARY

Solution Investment      \$54,546.96

City of Greenleaf (COG) has asked FLEXTECHS to provide a proposal for the implementation of a solution that will provide WiFi for public use at City Hall located at 20523 Whittier Dr. Greenleaf, ID 83626. COG would like the entire City Hall facility along with the surrounding plot to be covered by a seamless WiFi signal which will satisfy the requirements and guidelines as specified in the grant application form listed below.

[https://commerce.idaho.gov/content/uploads/2020/07/State-of-Idaho-Public-Broadband-Grant-Application-Public-Safety-and-Local-Government\\_FINAL.pdf](https://commerce.idaho.gov/content/uploads/2020/07/State-of-Idaho-Public-Broadband-Grant-Application-Public-Safety-and-Local-Government_FINAL.pdf)

COG is working with local telecommunication companies to bring a new 1gbps / 1gbps circuit into City Hall facilities that will provide Internet access for WiFi infrastructure. This statement of work will outline the details of the supporting infrastructure that will allow COG to provide the stated solution to the public. A new network infrastructure will be implemented that will include a dedicated firewall, network switches, wireless access points, and a UPS battery backup.

The proposed solution was chosen based on the following criteria:

- WiFi connection speed
- Concurrent connection capacity
- Security requirements

Activity	Description and Deliverables
<p><u>Procurement and Planning</u></p>	<p>FLEXTECHS will provide a Bill of Materials (BOM) as needed for any hardware and/or software components required by this project. If any components are required, FLEXTECHS will drop ship all components to the COG office located at 20523 Whittier Dr. Greenleaf, ID 83626</p> <p>Activity deliverables include:</p> <ul style="list-style-type: none"> <li>• Once approved FLEXTECHS will procure hardware and software based on quote #2417</li> <li>• Work with COG staff to ensure delivery of all equipment</li> <li>• Prepare and present project plan for approval</li> <li>• Technical documentation will be updated to ensure all changes are tracked</li> <li>• The project plan will be updated and burn report will be run to ensure timeline and milestone goals are met</li> </ul>
<p><u>Deployment &amp; Provisioning</u></p>	<p>A FLEXTECHS network engineer will install, configure, and operationalize all new components that comprise the new COG Public WiFi network infrastructure. These components consist of network switching, edge security, and associated support for all network equipment proposed on the bill of materials.</p> <p>Activity deliverables include:</p> <ul style="list-style-type: none"> <li>• FortiGate 100F Firewall Installation, Configuration, and Operationalization               <ul style="list-style-type: none"> <li>○ Device will be physically installed into the network rack</li> <li>○ Firewall will be configured, and all internal and external workloads will be validated                   <ul style="list-style-type: none"> <li>• WAN and LAN Subnets, ACL's, NAT, IPS, Filtering</li> </ul> </li> <li>○ DHCP servers will be created and configured for all new network segments</li> <li>○ A new remote access SSL VPN will be configured</li> <li>○ Permanent licenses will be registered and applied</li> <li>○ Firmware upgraded to the latest supported version</li> <li>○ Credentials and access methods will be logged in a secure FLEXTECHS database</li> </ul> </li> <li>• Fortinet FortiAnalyzer 200F               <ul style="list-style-type: none"> <li>○ Device will be physically installed into the network rack</li> <li>○ Connect the power and management interface</li> <li>○ Configure management interfaces with static IP</li> <li>○ Set Hostname, NTP, and ACL's for management via the COG VPN</li> </ul> </li> </ul>

- Update firmware to the latest available version
  - The device will be configured to accept logs from the new Fortinet FortiGate 100F firewalls
  - The device will be configured to dump logs an NFS share on the Synology RackStation for archival purposes
- Synology RackStation RS820+ NAS
  - Device will be physically installed into the network rack
  - Install memory module and HDD's
  - Connect the power and management interface
  - Configure management interfaces with static IP
  - Set Hostname, NTP, and ACL's for management via the COG VPN
  - Update firmware to the latest available version
  - An NFS share will be established to house all new device configuration backups
    - Access Credentials will be created and documented
    - Share permissions will be configured and access restricted
  - An NFS share will be established to house logs from the FortiGate 100F's
    - Access Credentials will be created and documented
    - Share permissions will be configured and access restricted
- FortiSwitch 448E-POE Switch
  - Device will be physically installed into the network rack
  - Device firmware updated to the latest maintained version
  - Basic configuration established such as IP configuration, naming schema, interconnectivity between switches, and web access, VLANs, and QoS
  - Credentials and access methods will be logged in a secure FLEXTECHS database
- HPE Aruba Access Points
  - Devices will be physically installed and cabled into the new network switch
  - Management access and credentials will be configured and documented
  - WiFi specific settings will be configured such as SSID, isolation, scheduling, and security
  - HPE Aruba integrated controller software will be configured to harden against potential compromises and threats
- Thorough testing will be performed to validate all features and functionality
- Technical documentation will be updated to ensure all changes are tracked
- The project plan will be updated and burn report will be run to ensure timeline and milestone goals are met

End-User  
Adjustments

FLEXTECHS will mitigate any end-user issues, requests, or impacts that arise during the project and are related to in-scope project infrastructure.

- Notify end users of all upcoming impactful changes
- Mitigate end-user issues as they arise

Documentation

FLEXTECHS will provide detailed documentation at the end of each day that will include hours worked (burn report) and milestone updates.

Technical documentation will be provided covering the following topics:

- Device-specific configurations and backups
- Scripts used to configure the new device
- Commonly used scripts and commands for day to day management tasks and basic troubleshooting
- Security credentials, network addressing, and access methods recorded in a FLEXTECHS secure database

Project Closing  
Questions

FLEXTECHS will provide a closing notice to the project. This time is also addressing any brief, final questions about the project and new infrastructure before it transitions into long-term service support.

- Review all documentation with designated staff and verify access to all newly added devices and services
- Answer any questions COG might have, regarding the overall scope of project items
- Review support contact procedures for FLEXTECHS (offered under a separate agreement)

## PROPOSED COSTS

Billing Method: Block-hours required for completion.

- Hours expended and activities performed will be communicated to COG representative on each day where billable activity occurs.
- Materials and/or expenses are not expected for this project and will be pre-approved by COG representative before they are incurred.

Billing Period: COG will be invoiced monthly, or at project completion.

- Billing period will be determined at the discretion of FLEXTECHS
- Materials are billed at the time of order, and payment must be

Initial Deployment Costs (First Annual Year)	Hours	Rate	Cost
FLEXTECHS Bill of Material – Quote # 2417	N/A	N/A	\$39,046.96
FLEXTECHS Professional Services	60	\$175.00	\$10,500
Low Voltage Cabling Contractor	N/A	N/A	\$5,000.00
		<b>Total</b>	<b>\$54,546.96</b>



## ASSUMPTIONS & TERMS

This SOW is governed by the Terms and Conditions attached herein and made a part hereof or a previously executed Managed Services Agreement (MSA) on file with FLEXTECHS.

This estimate was developed based upon information provided by COG and or third party input, where assumptions made by FLEXTECHS include:

- Under this agreement, FLEXTECHS will perform the tasks listed within the scope of this agreement as a block-hours project. All licensing commitments listed under this agreement are on an annual basis unless otherwise specified in this agreement. Unless otherwise specified, professional services rates do not include materials or travel expenses.
  - The total number of block-hours being charged are listed in the line item "FLEXTECHS professional Services" under section "Initial Deployment Costs".
- Should the project hours (60) be exceeded, all additional time will be billed on a Time & Materials basis.
  - Time & Materials is billed at an hourly rate of \$175.00 per hour, billed in 15-minute increments.
  - Time & Materials billing will be approved by City of Greenleaf before proceeding beyond the agreed upon (60) hours.
- Activities, deliverables, and products not listed in this scope of work will be considered out of scope and not pre-approved for service or configuration. Additional activities, deliverables, or products will be approved in advance by City of Greenleaf. Additional activities, deliverables, or products will either be billed separately, or combined with the overall project cost.
- Vendor promotional discounts are subject to change. It is the responsibility of COG to sign, initial, and return the statement of work at the soonest possible time to obtain vendor promotional discounts that may or may not be available at the time of submitting the statement of work to the customer. FLEXTECHS will provide COG with information on vendor promotional discount deadlines.
- Work delays by COG or 3rd parties will result in additional time or materials, where charges will be incurred at the stated hourly rate. FLEXTECHS will make reasonable efforts to notify COG when these conditions exist. COG may alter the schedule or change the inclusion of optional services at any time with 14 days advance written notice.
- Billing Period and Payment Remission
  - COG will be invoiced monthly, or at project completion, for services rendered.
  - Billing period for services will be determined at the discretion of FLEXTECHS.
  - Materials, such as hardware and licensing, are billed to COG at time of order placement.
  - Payment for materials must be remitted following the next invoice.
- Cancellation by either party requires 14 day written notice.
- This offer is extended to COG until 14 AUG 2020.

- TAXES – FLEXTECHS pricing does not include any federal, state, or local sales, use, or excise taxes. Appropriate taxes will be added to the price, as necessary, unless COG provides lawful evidence of exemption.
- Net 30 Invoicing - Remit to: FLEXTECHS, LLC 2539 S Five Mile Rd. Boise, ID 83709

## DESIGNATED CONTACTS

For COG, the following contacts are authorized to provide work direction and communication related to the stated work scope:

**Primary Contact:** Lee Belt, City Clerk, (208) 880-4061 / clerk@greenleaf-idaho.us

For FLEXTECHS, the following contacts are authorized to provide work direction and communication related to the stated work scope:

**Primary Contact:** Mike Bullough, Business Development Manager, (208) 515-2105 / mike@flextechs.com

**Alt Contact:** Brandon Bigford, Project Manager, (208) 417-4505 / brandon@flextechs.com

## ACCEPTANCE & AUTHORIZATION TO PROCEED

COG signature constitutes an authorization to proceed and agreement to the scope provided herein and the terms and conditions provided below. Source of funding / PO#: \_\_\_\_\_

Accepted and Authorized for:

FLEXTECHS, LLC  
2539 S Five Mile Road, Boise, ID 83709

Accepted and Authorized for:

City of Greenleaf  
20523 Whittier Dr Greenleaf, ID 83626

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Name (Print)

\_\_\_\_\_  
Name (Print)

\_\_\_\_\_  
Title

\_\_\_\_\_  
Title

\_\_\_\_\_  
Date

\_\_\_\_\_  
Date



# CITY OF GREENLEAF

20523 North Whittier Drive  
Greenleaf, Idaho 83626



City of Greenleaf  
Broadband Plan  
10 July 2020

## Preface

With the advent of Covid-19, the City of Greenleaf has abruptly been faced with the reality that broadband internet is critical and essential infrastructure, with base-level 'lifeline' service desirable and necessary in the community as a whole for the education of school-children, continuing education, remote work-from-home, and tele-health, as well as for the economic vibrancy of the business community and performance of local governmental functions.

## Current and Future Needs for Municipal Systems

The city recognizes the efficiencies to expand and share resources between city facilities and systems, including internet connections, data storage, phone systems, camera systems, and SCADA (supervisory control and data acquisition) systems. Fiber-optic infrastructure is key for a robust and reliable service that will meet future demand.

## Broadband Goals

The following goals have been identified:

- Establish fiber optic infrastructure to all city facilities including municipal buildings, potable water well/booster sites, sanitary sewer treatment and lift station facilities, and parks.
- Establish fiber optic infrastructure to other local government entities and community entities in support of collaborative efforts with the city.
- Encourage the extension of fiber optic infrastructure availability to local businesses.
- Encourage the extension of fiber optic infrastructure to local residences.

## Broadband Strategies

Fiber optic infrastructure is expensive. The following strategies have been identified:

- Seek grant funding



# CITY OF GREENLEAF

20523 North Whittier Drive  
Greenleaf, Idaho 83626



- Maximize the use of open trenching to extend fiber optic conduit and cabling, and/or conduit for future cabling, whenever city water and sewer utilities are extended, and when feasible, when roads are repaired or constructed.
- Where feasible, addition of empty conduit for future addition of capacity.
- Where applicable, utilization of limited improvement districts (LIDs) with new development to amortize the cost of fiber optic infrastructure and avoid up-front direct costs to the developer and the city, as the city grows beyond the current city limits.
- Development of an in-fill strategy to provide 'lifeline' broadband availability to all areas within the current city limits.

## Broadband Model & Non-compete

The city is currently investigating both the dark-fiber model utilized in our region by the City of Emmett, and the Ammon model utilized in our region by the City of Mountain Home.

The City of Greenleaf is not currently an internet service provider (ISP), and at this time the city has no desire to add ISP service as a city utility or to compete with ISPs. However, the city is in a unique position to: 1) Work with future development to include fiber optic infrastructure; 2) Work toward in-fill of broadband service and fiber optic infrastructure to serve the entirety of the current city limits; and 3) Develop a secure, robust, and reliable fiber optic network connecting all city infrastructure locations.

Lee C. Belt  
City Clerk  
City of Greenleaf

**Idaho CARES Act Broadband Grant Budget**

<b>Line Item</b>	<b>Grant Dollars</b>				<b>Total</b>
<b>Totals</b>					





# CITY OF GREENLEAF

20523 North Whittier Drive  
Greenleaf, Idaho 83626



State of Idaho Broadband Grant  
CARES Act Certification

STATE OF IDAHO  
COUNTY OF CANYON

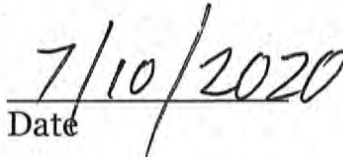
The undersigned, Bradley Holton, representing the City of Greenleaf, 20523 Whittier Drive, Greenleaf, ID 83626-9199 hereby affirm that:

1. I am Mayor of the City of Greenleaf and thereby authorized to make these statements.
2. I have personal knowledge of the facts herein, and can testify completely thereto.
3. The purpose of this statement is to assure the Idaho Department of Commerce that the project will meet the CARES Act Criteria.
  - i. Expenses to facilitate distance learning, including technological improvements, in connection with school closings to enable compliance with COVID-19 precautions.
  - ii. Expenses to improve telework capabilities for public employees to enable compliance with COVID-19 public health precautions.

*For criteria "i" given above, the WiFi hotspot deployment as designated in the project map will allow students and the public to connect to the internet for distance learning, while maintaining social distancing / Covid-19 guidelines.*

*For criteria "ii" given above, the WiFi hotspot deployment as designated in the project map will also allow a robust, reliable, and secure broadband connection to the internet for use by first responders and other public employees that tele-work when they need to utilize bandwidth larger than that available through home or normal tele-work locations while maintaining social distancing / Covid-19 guidelines, and serve as a critical redundant internet resource available for social distancing tele-work in the event of service disruption for whatever reason to home or normal tele-work locations.*

  
Signature

  
Date



# CITY OF GREENLEAF

20523 North Whittier Drive  
Greenleaf, Idaho 83626



SUBSCRIBED AND SWORN before me on this 10<sup>th</sup> day of July 2020.

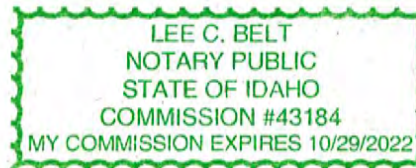
Signature

10 July 2020

Date

Lee C. Belt  
Notary Public for Idaho  
Residing at Greenleaf, Idaho  
Commission expires: 10-29-2022

seal:







PEOPLE ■ TECHNOLOGY ■ WORKFLOW

CORPORATE OFFICE: 2539 S. FIVE MILE RD.  
BOISE, IDAHO 83709  
OFFICE: 208.297.3539  
FAX: 208.297.3538

**Bill To**

City of Greenleaf  
20523 Whittier Dr  
Greenleaf, ID 83626  
United States  
(P) 2084540552  
(F) 2084547994

**Ship To**

City of Greenleaf  
20523 Whittier Dr  
Greenleaf, ID 83626  
United States  
(P) 2084540552  
(F) 2084547994











**Payment Method**










Terms: Undefined

**Shipping Info**

Delivery Method: UPS Ground  
Carrier Account:  
Shipping Instructions:

Quotation (Open)	
<b>Date</b> Jul 10, 2020 07:34 AM MDT	<b>Expiration Date</b> 08/09/2020
<b>Modified Date</b> Jul 13, 2020 11:46 AM MDT	
<b>Doc #</b> 2417 - rev 1 of 1	
<b>Description</b> Idaho Broadband Public Safety and Local Government Grant	
<b>SalesRep</b> Clark, Nicole (P) N/A	
<b>Customer Contact</b> Belt, Lee (P) 2084540552 (F) (208) 454-7994 clerk@greenleaf-idaho.us	

#	Image Description	Part #	Qty	Unit Price	Total
<b>HPE ARUBA WIRELESS</b>					
1	 HPE Aruba AP-365 (US) Wireless access point - Wi-Fi - Dual Band	JX967A	4	\$754.41	\$3,017.64
2	 HPE Aruba Outdoor Pole/Wall Long Mount Kit Network device wall / pole mounting kit - for HPE Aruba AP-318, AP-365, AP-367, AP-374, AP-375, AP-377	JW052A	4	\$124.00	\$496.00
3	 HPE Foundation Care Next Business Day Exchange Service Extended service agreement - replacement - 5 years - shipment - 9x5 - response time: NBD - for HPE Aruba AP-365, AP-365 (EG), AP-365 (IL), AP-365 (JP), AP-365 (RW) FIPS/TAA	H4XT6E	4	\$220.77	\$883.08
4	 HPE Aruba Instant IAP-305 (US) Wireless access point - Wi-Fi - Dual Band - in-ceiling	JX946A	1	\$404.94	\$404.94
5	 HPE Foundation Care Next Business Day Exchange Service Extended service agreement - replacement - 5 years - shipment - 9x5 - response time: NBD - for P/N: JX945A, JX946A, JX947A, JX948A	H5EA8E	1	\$120.97	\$120.97
<b>FORTINET NETWORKING</b>					
6	 Fortinet FortiGate 101F Security appliance - with 5 years UTM Protection Bundle - 10 GigE - 1U	FG-101F-BDL-950-60	1	\$13,566.00	\$13,566.00
7	 Fortinet FortiSwitch 448E-POE Switch - L3 - managed - 48 x 10/100/1000 (PoE) + 4 x 10 Gigabit SFP+ - rack-mountable - PoE (421 W)	FS-448E-POE	1	\$2,936.32	\$2,936.32
8	 Fortinet FortiCare 24x7 Comprehensive Support Extended service agreement (renewal) - advance parts replacement - 5 years - shipment - response time: NBD - for P/N: FS-448E-POE	FC-10-S448P-247-02-60	1	\$1,566.00	\$1,566.00
9	 Fortinet FortiAnalyzer 200F Network monitoring device - GigE - 1U - rack-mountable	FAZ-200F	1	\$3,360.60	\$3,360.60
10	 Fortinet FortiCare 24x7 Comprehensive Support Extended service agreement (renewal) - advance parts replacement - 5 years - shipment - response time: NBD - for P/N: FAZ-200F	FC-10-L200F-247-02-60	1	\$3,499.00	\$3,499.00
<b>SYNOLOGY NAS</b>					








#	Image	Description	Part #	Qty	Unit Price	Total
11		Synology RackStation RS820+ NAS server - 4 bays - rack-mountable - SATA 6Gb/s - RAID 0, 1, 5, 6, 10, JBOD - RAM 2 GB - Gigabit Ethernet - iSCSI - 1U	RS820+	1	\$967.00	\$967.00
12		Synology DDR4 - 4 GB - SO-DIMM 260-pin - 2666 MHz / PC4-21300 - 1.2 V - unbuffered - non-ECC - for Deep Learning NVR DVA3219	D4NESO-2666- 4G	1	\$93.00	\$93.00
13		Synology RKS1317 Rack slide rail kit - for Synology RX1217, RX418; FlashStation FS2017; RackStation RS2418, RS2818, RS3618, RS818	RKS1317	1	\$104.00	\$104.00
14		Seagate IronWolf Pro ST4000NE0025 Hard drive - 4 TB - internal - 3.5" - SATA 6Gb/s - 7200 rpm - buffer: 128 MB - with Seagate Rescue Data Recovery	ST4000NE0025	4	\$216.00	\$864.00
<b>APC RACK &amp; UPS</b>						
15		APC NetShelter WX Rack - wall mountable - black - 13U - 19" - for P/N: SUA1000RM2U, SUA1000RM2U-TU, SUA1000RMI2U	AR100	1	\$545.00	\$545.00
16		APC Rack shelf - black - 2U - for NetShelter 2; NetShelter EP; NetShelter ES; NetShelter SX; Netshelter VX; NetShelter WX	AR8105BLK	1	\$65.00	\$65.00
17		APC Smart-UPS Li-Ion 1500VA Short Depth with SmartConnect UPS (rack-mountable / external) - AC 110/120/127 V - 1.35 kW - 1500 VA - RS- 232, USB - output connectors: 6 - 3U - black, silver - for P/N: ACF600, AP5606, AP5616, AR100, AR100HD, AR112, AR8213, NBWL0356A	SMTL1500RM3UC	1	\$1,686.00	\$1,686.00
18		APC Network Management Card 2 with Environmental Monitoring Remote management adapter - 100Mb LAN - 100Base-TX - black - for P/N: SMTL1000RMI2UC, SMTL750RMI2UC, SMX2KR2UNCX145, SRT1000XLJ, SRT1500XLJ, SRT2400XLJ	AP9631	1	\$460.00	\$460.00
19		APC Basic Rack-Mount PDU Power distribution strip (rack-mountable) - AC 120 V - 1.8 kW - input: NEMA 5- 15 - output connectors: 10 (NEMA 5-15) - 1U - 19" - 12 ft - black - for P/N: AR106VI, SCL400RMJ1U, SCL500RMI1UC, SCL500RMI1UNC, SMTL1000RMI2UC, SMTL750RMI2UC	AP9562	1	\$89.00	\$89.00
<b>MISCELLANEOUS</b>						
20		Miscellaneous Cabling and Supplies	MISC	1	\$2,000.00	\$2,000.00

<b>Customer PO:</b>	<b>Terms:</b> Undefined	<b>Ship Via:</b> UPS Ground
<b>Special Instructions:</b>		<b>Carrier Account #:</b>

<b>Subtotal:</b>	<b>\$36,723.55</b>
Tax (6.000%):	\$2,203.41
Shipping:	\$120.00
Miscellaneous:	\$0.00
<b>Total:</b>	<b>\$39,046.96</b>

# Syringa Networks Fiber build route

**Legend**

-  City of Greenleaf
-  Davison Ranch Airport
-  Feature 1
-  Greenleaf Friends Church
-  Ibi LLC
-  IdaOil.com
-  Path Measure





CITY OF GREENLEAF

Syringa Networks is pleased to provide this response to the City of Greenleaf in consideration for the State of Idaho Public Broadband Grant. We feel the solution provided in this response offers the City of Greenleaf the most efficient and effective means to meet the goals and intents of the CARES Acting funding.

Syringa Networks will provide all fiber infrastructure, associated equipment, and accessories related to offering a minimum broadband capability of speeds of 1,000 Mbps download and 1,000 Mbps upload, symmetrical, to the City of Greenleaf's City Hall building. Construction of the roughly 3-mile fiber route, and services to City Hall, will be completed and operable by November 2020.

Non-Recurring Cost for all construction, equipment, and related items to provide services is \$300,000.

Syringa Networks  
12301 W. Explorer Drive  
Boise, ID 83713  
Jeff Morris  
208-229-6108  
jmorris@syringanetworks.net

Question 32:

The included PDF map depicts the area in questions

With the short turnaround time on this grant application, I was not able to obtain a statement from any ISP – from conversations with the EDO and the city hall, we have been unable to secure the 1000 up/down bps

City Hall has the area around them for the public to be present to access the public access Wi-Fi in the numbers and at the required speeds.

Question 33:

The included PDF maps depict the project area.

The fiber optic infrastructure will have the ability to handle not only the minimum required 1000mbps (1gig) connectivity, but also up to 10,000mbps (10gig) connectivity now and up to 100,000mbps (100gig) in the future. These speeds are symmetrical, both up and down.

# State of Idaho Public Broadband Grant Application: Households

Applicant	Delta James
Applicant ID	APP-004180
Company Name	McCall
Recipient Address	McCall 216 E Park St McCall, ID 83638
Phone	(208) 634-7142
Email	djames@mccall.id.us
Amount Requested	\$95,000.00
Status	Submitted
Funded	<input type="checkbox"/>

Application Title: RAPID McCall - Pilot Neighborhood: Demonstrating Fiber to the Home

## Applicant Information

**NOTICE: Grant applications, challenges, and responses to challenges will be posted to the Idaho Department of Commerce website**

### Purpose:

#### 1. Program Description

The CARES Act funding received by the State of Idaho will fund projects across the state that create and retain local jobs and result in purposeful outcomes, including distance learning, telehealth public safety, commerce, and overall well-being. This CFAC Broadband Grant initiative grant program (the “Program for Households”) is designed to meet the CARES Act criteria, and help Idaho rebound from the COVID-19 public health emergency. Approximately 70% of the \$50 million received by the Idaho Department of Commerce will be allocated to this program aimed at households that lack access to broadband.

**• Projects must be completed and grant funds requested and dispersed before December 15th, 2020.**

**Question:** Contact information of applicant: Name Title Mailing Address Email Phone

City of McCall, 216 E. Park Street, McCall ID 83638 - contact: Chris Curtin, Info Sys Manager, ccurtin@mccall.id.us, 208.634.7142

**Question:** List the cities/communities where the project(s) will take place.

McCall, Idaho

**Question:** Enter the zip code(s) where the project will take place.

83638

**Question:** Enter name and title of designated grant administrator

Delta James, Economic Development Planner, City of McCall

**Question:** Enter the email of the designated grant administrator

djames@mccall.id.us

**Question:** Enter the phone number of the designated grant administrator

2086343504

## Project Requirements

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### Eligible Projects

Projects must meet the following eligibility criteria: The project must:

- Be infrastructure investment, associated equipment, and accessories related to broadband as defined by the FCC: speeds of 25 Mbps download and 3 Mbps upload.
- Meet the CARES Act criteria, which is designed to address key areas of public health and safety by improving opportunities to telework, facilitate distance learning, and improve public safety
- Be a project that serves underbuilt areas and does not overbuild existing broadband service. Underbuilt areas are defined as locations where less than fifty percent (50%) of households in the project area have access to broadband service.
- Include only new broadband service to be installed, owned, and operated by for-profit companies, or membership owned cooperative corporations as defined in [Idaho Code Title 30, Chapter 30](#) that provide broadband services to the public.
- Provide broadband service within the applicant's proposed project area.
- Be completed, operable, paid for, and submitted to the Idaho Department of Commerce for payment no later than December 15, 2020.
- Include broadband infrastructure and equipment costs meeting CARES Act criteria. Satellite service is not eligible for grant award.

**Question:** Does your project meet the CARES Act criteria?

Yes

No



**Question:** Does your project provide a minimum of 25 Mbps Download and 3 Mbps Upload as outlined by the CFAC Committee Recommendation?

Yes

No

**Question:** Does your project provide service to areas where less than 50% of households in the project area has broadband as outlined by the CFAC Committee Recommendation?

Yes

No

**Question:** Include only new broadband service to be installed, owned, and operated by for-profit companies, or membership owned cooperative corporations as defined Idaho Code Title 30, Chapter 30 that provide broadband services to the services to the public.

Yes

No

**Question:** I understand that the State of Idaho will provide no funding and have no obligations for projects that fail to be completed by December 15, 2020.

Yes

No

## Scored Criteria

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**Question:** Provide an overview of the project including why the project is important and will address broadband needs of the community.

The City of McCall is a rural town of 2991 full time residents (2010 Census), but often experiences an influx of visitors that can swell the area population to 30,000+ in a weekend. This causes an overload of internet circuits (most cellular traffic uses terrestrial based transport for backhaul) making cellular and internet connectivity nearly unusable and slowing business transactions. In recognition that reliable and adequate internet access is a critical element of local economic vitality and to meet the current and future internet access needs of businesses and residents, two years ago the City of McCall launched an open access fiber utility project called RAPID with a goal to; increase access to internet, speed, expand-ability and reliability while establishing local control over essential critical infrastructure and lowering the monthly

total cost of access for community members. Tele-Medicine, telework, online learning and more are all easily accessible with available bandwidth. The recent COVID-19 crisis has highlighted the need for better access to internet services, especially in underserved rural areas.

The City of McCall's RAPID project is building backbone fiber to not only enhance the capability of public services and serve local businesses and schools, but also provide the pathway for fiber to the home (FTTH) services with network speeds of 1G symmetrical at the request of residents. The City will operate the infrastructure but will not act as an ISP (internet service provider) or compete with private sector providers to deliver services across the network. Separating the infrastructure in the ground (fiber) from the connectivity offered by internet services providers (ISP's) is the next wave for internet access in small and rural communities such as McCall and Ammon, Idaho.

The City of McCall is shovel-ready to implement a key phase of RAPID implementation by December 15, 2020. This phase and the scope of the grant request will connect the first cluster (15-20) of residential homes to the fiber backbone to pilot and demonstrate the effectiveness and service level of RAPID fiber to the home. The test neighborhood location was chosen because of its proximity to installed backbone fiber within public right of way and its high percentage of year-round full-time residents. Grant funds will be utilized to support the cost of installing service to the homes and providing internet service through a third-party provider for a period of one year if home owners agree to collect and report data about service levels, connectivity and use patterns. This data will be used to refine and inform RAPID's residential service for the rest of the McCall community and enable more students to keep learning and workers to keep earning from their homes; an essential aspect of COVID-19 mitigation and economic resiliency.

**Question:** Is your project in an area where 50% of households is in an unserved area?

Yes

No

**Question:** Is your project in an area where more than 50% of households is in an underserved area?

Yes

No

**Question:** Is the project in a town/city/municipality of less than 3,000 people?

Yes

No

**Question:** How many households may receive broadband service because of this project?

20.00

**Question:** Does the project address a need as identified in a local or regional broadband plan? If yes, please describe.

This project furthers the McCall Comprehensive Plan (2018), McCall Capital Improvement Plan and RAPID Implementation Strategy. Specifically, the project fulfills Goal 5, Policy 5.2 of the McCall Area Comprehensive Plan by "expanding high speed internet and fiber optic access to public buildings, businesses, and residences throughout the McCall Area." Community information about RAPID, McCall's open access network, and implementation GIS map and story board showing prioritized system infrastructure construction is available for public review and comment on the City of McCall web site at [mccall.id.us/rapid](http://mccall.id.us/rapid).

## Additional Requirements

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Upload Supporting Documents for scope of project including maps, site plans, studies, or photographs, demonstrating the location of the project.

**Project Attachment Templates:**

[CARES Act Certification](#)

[Grant Budget Template](#)

[Project Schedule Form](#)

[Letters of Support/Community match template](#)

**Question:** Estimated total project cost?

95000.00

**Question:** List the underserved and unserved community facilities (schools, libraries, government offices, hospitals, public safety, etc.) within the proposed project area.

none - this project will provide services to residential properties

**Question:** What is the average cost per household of new broadband service based on this project cost?

\$0 for first year of service; approx. \$30/month after one year (Utility fee - \$15; internet service - \$15)

**Question:** What is the maximum broadband speed that will be provided by the project?

1 G symmetrical

**Question:** Are permits, permissions, rights of way and zoning requirements readily available in order for the project to be completed and paid for by December 15, 2020?

no.

**Question:** If answered no in previous question, please describe. If the project does not require any of the above answer N/A.

public right of way to the property frontage; private property service install permissions are pending

**Question:** Describe how the project will be administered, audited for completion, and accounting performed.

Overall project management will be coordinated by Chris Curtin, City of McCall Information Systems Manager. Chris has successfully implemented previous phases of the RAPID project including procurement, construction management and systems inspection. Delta James, AICP, McCall Economic Development Planner, will provide grant administration. Delta is a certified CDBG Administrator and has extensive experience managing federal and state grant awards and reporting requirements. Accounting will be conducted by the City Treasurer and the project will be included in the City's annual audit process.

**Question:** Include any other information regarding why your project should be considered for funding.

This pilot neighborhood project is a key demonstration project to inform the roll out of RAPID broadband services to residents in the City of McCall. Data collected by participants in the pilot neighborhood project will enable the City and its private partnering internet service providers to more efficiently and cost effectively provide broadband services to subsequent McCall neighborhoods.

**Question:** Upload Supporting Documents for scope of project including maps, site plans, studies, or photographs, demonstrating the location of the project.

[Pilot Neighborhood Vicinity Map.pdf](#) (7/15/2020 3:51 PM)

**Question:** Upload the completed Grant Budget Template for the project that outlines the various costs.

[Idaho-Cares-Act-Broadband-Grant-Budget - Pilot Neighborhood.pdf](#) (7/15/2020 11:02 AM)

**Question:** Complete the Project Schedule Form

[Broadband - project schedule - Pilot Neighborhood.pdf](#) (7/15/2020 11:02 AM)

**Question:** Include any Letters of Support or Community Match from the community.

[Caldwell Signed.pdf](#) (7/15/2020 3:55 PM)

[MDSD City of McCall Letter of Support.pdf](#) (7/15/2020 1:01 PM)

[WCMEDC McCall Broadband Letter of Support.pdf](#) (7/15/2020 11:03 AM)

[TREC Support of McCall Broadband Application 2020 07 13.pdf](#) (7/15/2020 11:03 AM)

[Chamber LTR of Support for City Broadband Grant.pdf](#) (7/15/2020 11:03 AM)

**Question:** Provide a copy of your Community Broadband Plan if applicable.

[RAPID Broadband Master Plan.pdf](#) (7/15/2020 11:04 AM)

**Question:** Provide a notarized CARES Act Certification that this project meets the CARES Act criteria.

[CARES Act Certification - signed.pdf](#) (7/15/2020 11:04 AM)

**Question:** Provide commitments from community anchor institutions or public safety networks which will utilize your service if the project is funded.

[McCall Police Dept - letter of support.pdf](#) (7/15/2020 3:53 PM)

**Question:** Map of the project area demonstrating the insufficient availability of broadband service (25/3Mbps) in the proposed service area where less than 50% of households have access to broadband.

[Area Summary - FCC existing service level.pdf](#) (7/15/2020 1:03 PM)

[Valley County - existing services level map.pdf](#) (7/15/2020 1:01 PM)

**Question:** Map of the project area which includes the number of households served, the broadband speeds provided, and the technology used to provide that service.

[Pilot Neighborhood Vicinity Map.pdf](#) (7/15/2020 3:54 PM)

## Signature

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Your identity has been authenticated through the login process with a unique email address and password available only to you. You agree that by typing your name, title and date below, you are electronically signing the application. By electronically signing the application, you acknowledge and represent that you understand and accept all the terms and conditions stated within the application and declare that the information provided is true and that the documents you are submitting in support of your application are genuine and have not been altered in any way.

**Question:** Type your name.

Chris Curtin

**Question:** Type your title.

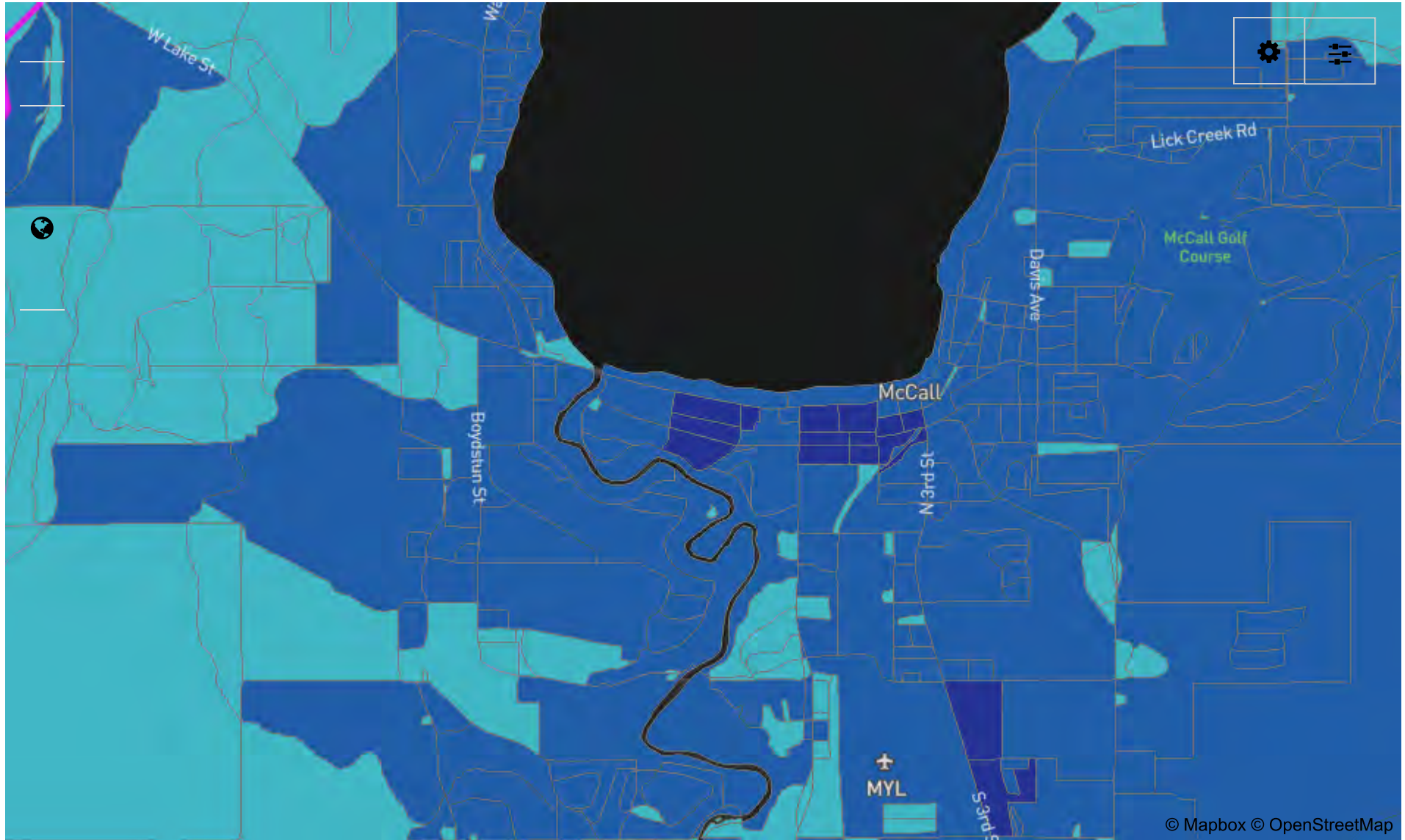
InfoSys Manager

**Question:** Type the submission date.

7-15-2020

# Area Summary

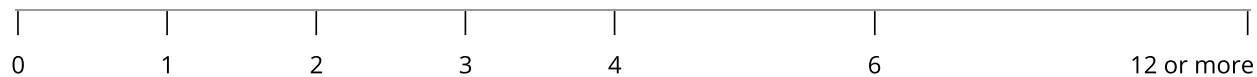
County ▾ Valley County, ID 🔍



## Valley County, ID



### Number of Fixed Residential Broadband Providers



### Broadband



#### Technology

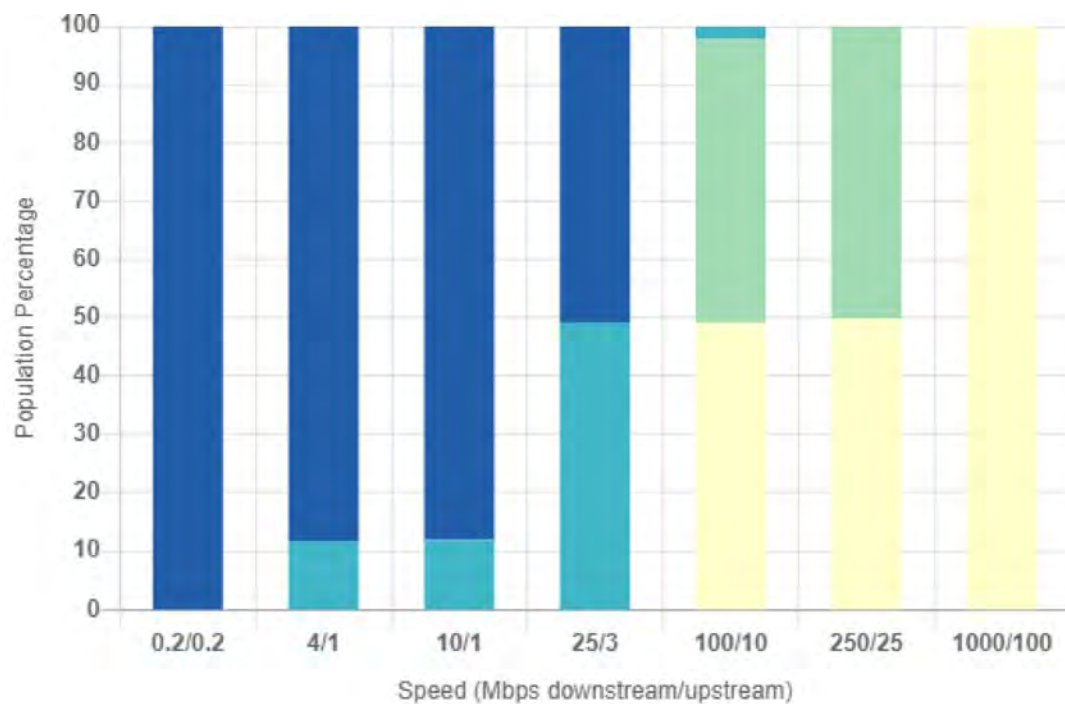
ADSL, Cable, Fiber, Fixed Wireless, Satellite, Other

#### Speed

≥ 25/3 Mbps

#### Date

June 2019 (latest public release)





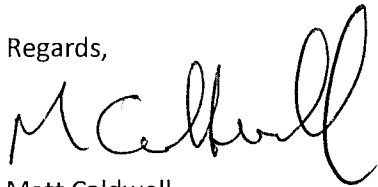


**Matt & Brooke Caldwell**  
1102 Alpine Street  
McCall, Idaho 83638

To Whom it May Concern,

I am a full-time year-round resident of McCall and have been part of this community for 12 years. I own my home at 1102 Alpine Dr. In my time here I have constantly had to struggle with getting fast, reliable internet, I even ran my office out of my home for the first seven years I lived in the home. Five years ago I switched from Frontier to Cable One with little improvement. The recent issues surrounding the COVID-19 pandemic has made these challenges even more prevalent, especially with my new business. Not only is internet service spotty but so is cell service in my home and I have to rely on WiFi calling to send and receive phone calls to my clients. I recently learned of the City's RAPID program to bring fiber to the home. Additionally, I learned that there will be a pilot program including ~20 homes in my neighborhood designed to help the City gather information about the quality of the network, performance, costs and usability. I would like to offer my home for consideration as a test property in this pilot program. Not only would this benefit my business, but I also have 2 children who will benefit from the ability to use distance learning. Greater internet reliability and speed would be a fantastic addition to my neighborhood as well as the community of McCall. Please do not hesitate to contact me if you have any questions.

Regards,

A handwritten signature in black ink, appearing to read "Matt Caldwell", written in a cursive style.

Matt Caldwell  
208-630-4624



City of McCall

www.mccall.id.us

216 East Park Street  
McCall, Idaho 83638

Phone 208-634-7142  
Fax 208-634-3038

**State of Idaho Broadband  
Grant CARES Act Certification**

STATE OF IDAHO  
COUNTY OF VALLEY

The undersigned, Robert S. Giles, representing City of McCall, 216 E. Park Street, McCall, Idaho 83638, hereby swear (affirm) that:

1. I am Mayor of City of McCall and thereby authorized to make these statements.
2. I have personal knowledge of the facts herein and can testify completely thereto.
3. The purpose of this statement is to assure the Idaho Department of Commerce that the project will meet the CARES Act Criteria as follows:
  - i. Facilitate distance learning, including technological improvements, in connection with school closings to enable compliance with COVID-19 precautions; and
  - ii. Improve telework capabilities for public employees to enable compliance with COVID-19 public health precautions; and
  - iii. Enhance communications capability of for public safety and enforcement by local emergency services related to COVID-19.

RAPID, the City of McCall's effort to establish underground fiber as critical infrastructure will, in partnership with private internet service providers, create an open access fiber network for public facilities, business and residential customers that will increase access to high speed internet so that employees, students, healthcare workers and public service officials can telework, distance learn, conduct business and facilitate public safety efforts during emergencies such as the COVID-19 pandemic.

Robert S. Giles  
Signature

7/15/2020  
Date

SUBSCRIBED AND SWORN before me on this 15 day of July, 2020



Notary Public for IDAHO  
Residing at Valley County  
Commission expires 1-10-2026



July 10, 2020

RE: CFAC Broadband Grant

Dear Director Kealy and Idaho Dept. of Commerce,

I write to you on behalf of the McCall Area Chamber of Commerce and Visitors Bureau (MACCVB) in full support of the City of McCall's grant funding request for Broadband, available through CFAC/Commerce as part of the CARES Act.

The MACCVB is the concerted voice of local businesses, promoting and protecting their interests as well as the interests of the community at large. We are committed to maintaining a healthy community with a sought-after quality of life featuring year-round recreational opportunities and a thriving economic climate.

With an influx of 10,000+ visitors each week in the summer and winter months, and bandwidth is consistently strained for residences and businesses alike. Moving to a FTTH configuration will allow McCall to add middle mile services relieving some of this pressure so we continue to thrive and operate to the best of our abilities. The following projects being applied for by the City of McCall are shovel ready with planned completion by the Dec. 15th requirement:

- Install conduit route along Deinhard Lane. Fiber pulling and splicing – installation and termination of 96 fiber in existing backbone routes. ~10 miles (Includes public Wi-Fi piece for 100 users -- City Hall campus coverage)
- Beta testing neighborhood – 15-20 homes to show proof of concept for RAPID fiber utility

The City of McCall will be offering matching funds in the amount of \$340K, which demonstrates their solid commitment alongside these grant funds. We ask for strong consideration to fund their application as another great step in the right direction to getting us "up to speed" where we need to be.

Thank you in advance for your consideration.

A handwritten signature in black ink that reads 'Tammy McCloud'.

Sincerely,  
Tammy McCloud

*President of the McCall Area Chamber of Commerce & Visitors Bureau*

P.O. Box 350 | 605 N. 3rd Street | McCall, ID 83638

P: 208.634.7631

[info@mccallchamber.org](mailto:info@mccallchamber.org)


[www.mccallchamber.org](http://www.mccallchamber.org)

### Idaho CARES Act Broadband Grant Budget

<b>Line Item</b>	<b>Grant Dollars</b>				<b>Total</b>
<b>Totals</b>					



**City of McCall**  
POLICE  
DEPARTMENT

**TO: CHRIS CURTIN, INFORMATION SYSTEMS MANAGER**  
**FROM: JUSTIN WILLIAMS, CHIEF OF POLICE**   
**SUBJECT: CARES ACT GRANT FUNDING SUPPORT**  
**DATE: DECEMBER 22, 2014**

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The purpose of this memorandum is to provide McCall Police Department support for application in the CARES Act Grant Funding initiative.

Security for data transmission related to law enforcement purposes is ever important and departmental needs continue to grow. As such, point-to-point fiber lines increase security of sensitive data that travels third party networks. As a department, we utilize multiple programs from various vendors that require access to our information. These fiber lines will insure an upgrade to our current data security concerns.

McCall is a rural community and suffers from a lack of interest in network upgrades from “big business.” However, we are a tourist destination with a population that swells from 3,000 residents to over 25,000 visitors each day during the summer months. Our antiquated network simply can’t handle the influx and thus poses a risk to adequate data retrieval during an emergency situation.

Specifically, I was assigned as the Incident Commander for the City of McCall’s response to COVID19. Data retrieval and transmissions have been integral in our response and we have suffered lags, delays and interrupted service due to the population increase that we face each summer. These issues have hampered our response in service to our community. Any outreach to corporate suppliers has fallen on deaf ears as the monetary gain is simply not enough to garner interest.

Finally, the fiscal savings that could be achieved through point-to-point would allow for a redirection of resources to other areas of need. As departments continue to adjust in today’s environment, these savings will allow the McCall Police Department to continue to provide professional services to our community and visitors.

In summary, I am supportive of this grant application and am available for response should it be needed.



July 8, 2020

Please accept this strong letter of support for the City of McCall's "RAPID Project" and efforts to provide solutions to local broadband limitations in our rural community.

The McCall-Donnelly School District serves approximately 1,350 students, 1,200 of whom attend four schools located in McCall. There is a significant disparity between the level of access that families have to internet-based communication tools, depending upon where they live. In April of 2020, the school district moved to a platform of remote teaching and learning in response to the COVID-19 pandemic. Every issue we faced with broadband limitations was magnified. This resulted in significant issues with access to education for many families. We wholeheartedly support all efforts that level the playing field and provide equal access to families in our district. The efforts by the City of McCall are highly supportive of this objective.

The City of McCall has completed extensive work to establish "shovel ready" projects that will mitigate these issues. These projects will significantly improve access for families, and we believe create a more competitive pricing environment.


Proposed shovel ready projects include:

- Installation of a second conduit route along Deinhard Lane.
- Fiber pulling and splicing with installation and termination of 96 fiber in existing backbone routes (10 miles). This includes public Wi-Fi for 100 users on the City Hall campus.
- Beta Testing of 15-20 homes to show proof of concept for RAPID fiber utility.

Additionally, our infrastructure is impacted significantly as visitors recreate in McCall. It's estimated that we receive 10,000 visitors weekly to a city with fewer than 2,500 year-round residents. This brings available bandwidth almost to a halt.

Thank you for considering support for these projects. The City of McCall is prepared and ready to initiate projects and complete them by the December 15<sup>th</sup> deadline, and has committed \$340,000 in matching funds.

Respectfully,



Jim Fouly  
Superintendent  
McCall-Donnelly School District

**"Developing Lifelong Learners Today"**



July 8, 2020

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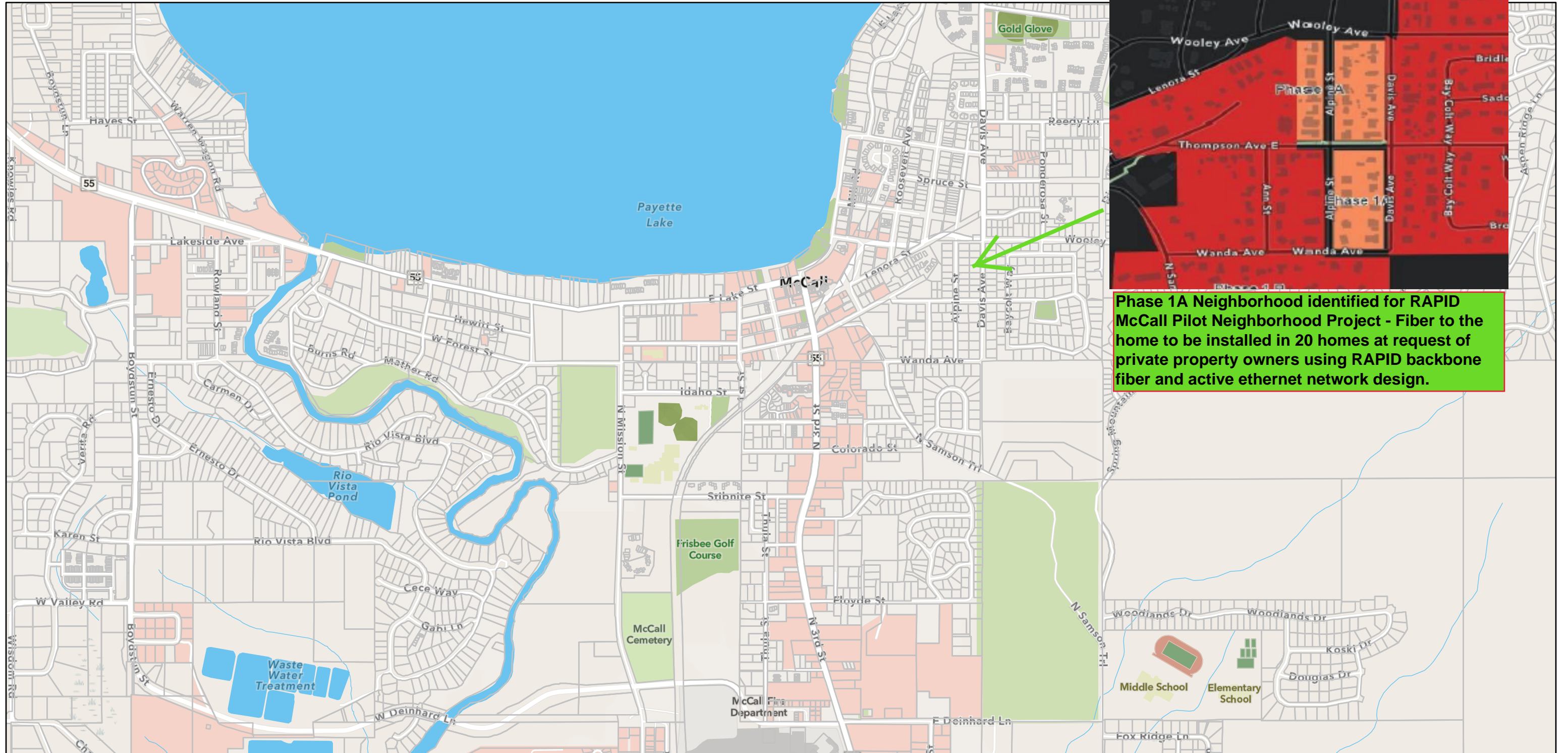
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Jim Fouly  
Superintendent  
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**"Developing Lifelong Learners Today"**

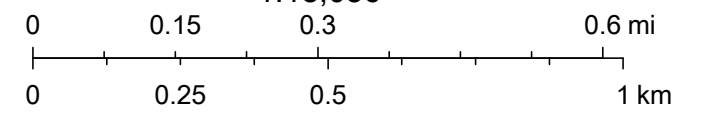
# Pilot Neighborhood Vicinity Map



7/15/2020, 3:37:25 PM

McCall Parcels

1:18,056



Sources: Esri, HERE, Garmin, FAO, NOAA, USGS, © OpenStreetMap contributors, and the GIS User Community





*City of*  
**McCall**  
IDAHO

# Broadband Master Plan

Prepared for the McCall City Council

July 2020

– Prepared By –



[www.entpnt.com](http://www.entpnt.com)

## Contents

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- I. Executive Summary
- II. Strategy
- III. Infrastructure
- IV. Assessment of Existing Broadband Infrastructure
- V. Market Analysis
- VI. Community Engagement Plan
- VII. Business Model – Automated Open Access
- VIII. Network Design
- IX. Project Partners
- X. Cost Analysis & Phasing
- XI. Financing Considerations
- XII. Legal Considerations
- XIII. Risk Analysis

## Executive Summary

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*In addition to lowering costs and delivering significant improvements in network speeds, additional objectives for the network include positively impacting economic development, livability, public safety, education, healthcare, emergency communications, smart grid, efficient government services, universal access, environmental stewardship and smart city initiatives.*

The McCall, Idaho InfoSys Department has worked with EntryPoint Networks to develop this Broadband Master Plan to assist with a planning and decision-making process for deploying and operating broadband infrastructure for its municipal fiber deployment within the City of McCall. The information in this report will be used to assist in the planning and implementation of a network that seeks to lower broadband costs and increase network value for residents, commercial entities, and anchor institutions. Additionally, this report is designed to assist City leaders in understanding the operational implications, important risk factors, and a realistic cost framework for developing and operating city owned fiber optic infrastructure.

The Broadband Master Plan is a living document that will evolve as the City completes the backbone and pilot phase of the network and as it progresses from planning to implementation to operational activities.

In addition to lowering costs and delivering significant improvements in network speeds, additional objectives for the network include positively impacting economic development, livability, public safety, education, healthcare, emergency communications, smart grid capabilities, efficient government services, universal access, environmental stewardship and smart city applications.

City leaders will be able to use this document to lay the groundwork to solve near-term and long-term challenges. This report seeks to provide the data needed for City leaders to thoughtfully plan and implement a strategy that will benefit residents, businesses, and anchor institutions for years to come. The key focus of the report is on the following primary activities:

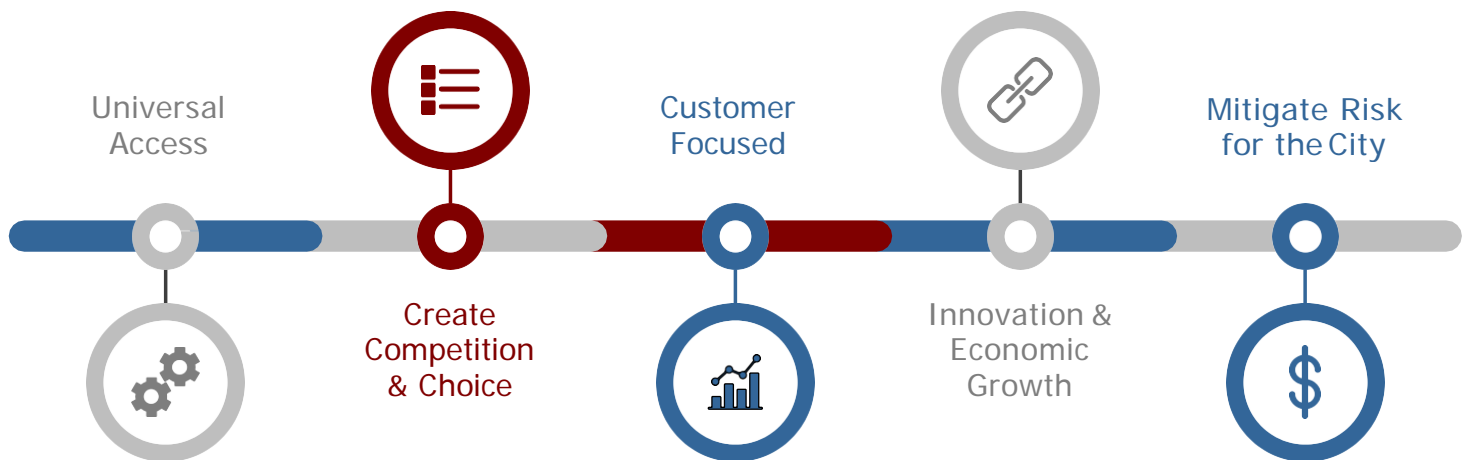
- 1) Network Design & Architecture
- 2) Construction
- 3) Network Operations
- 4) Customer Acquisition
- 5) Risk Management

## Strategy

Deploying a large-scale fiber optic network is a significant public works and information technology project.

**Key Strategic Ideas** guiding this Plan include the following:

1. **Universal Access** – The economy is now an information economy and the importance of digital infrastructure continues to grow in significance. The City of McCall has an interest in ensuring that the City has robust digital infrastructure and adopts policies and projects that make 1 Gig network access available and affordable throughout city limits.
2. **Foster Competition & Choice** – The City seeks to understand initiatives that will increase the number of service providers and types of services that are available to McCall residents.
3. **Focus on Customers** – City leaders seek to understand the needs and interests of network stakeholders and then align policies, initiatives, and projects with those interests.
4. **Foster Innovation & Economic Development** – City leaders are interested in leveraging the network to foster entrepreneurship and business development throughout McCall.
5. **Mitigate Risk for the City, Constituents, and Partners** – City leaders are particularly interested in implementing a business model which mitigates financial and operational risks to the City and its partners while at the same time helping the City achieve its other objectives.



## Infrastructure

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### Comparison of Available Media

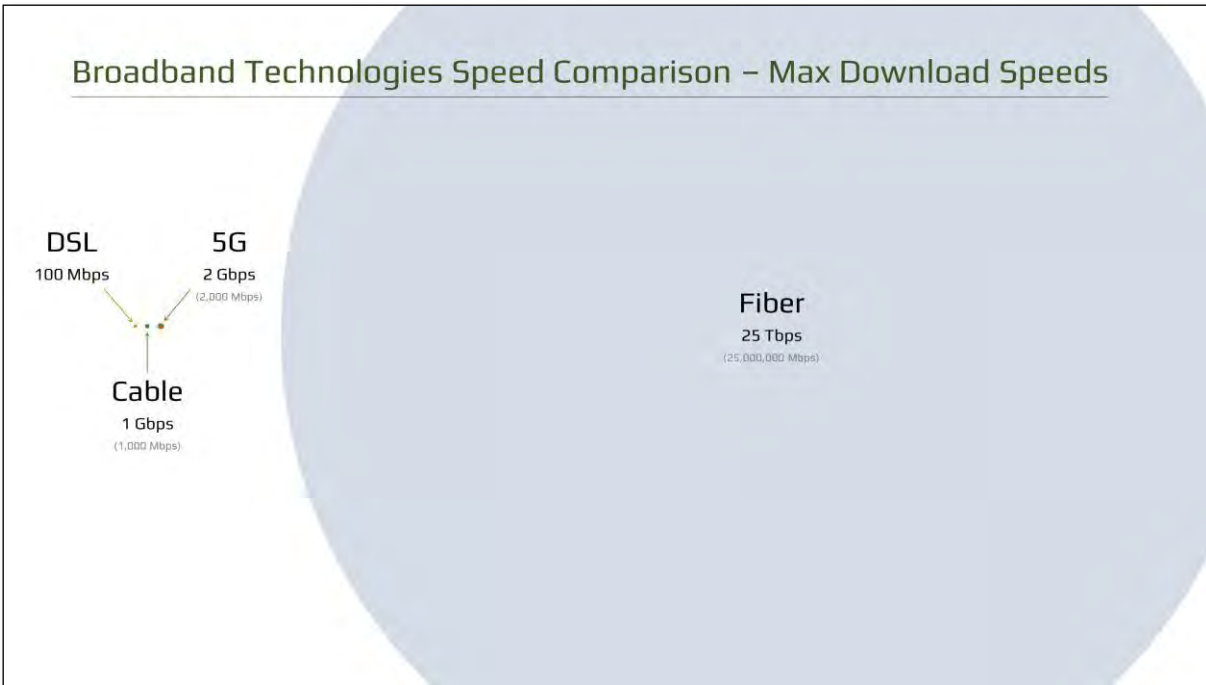
The primary media used for internet access today in the United States includes DSL, Cable, Wireless and Fiber Optic cable.

**DSL** stands for Digital Subscriber Line and it is one of the technologies used to provide Internet connectivity to homes and businesses. DSL uses existing telephone lines and a transceiver to bring a connection into a home or business and allows the household to use the Internet and make telephone calls at the same time. Frontier / Zply is the incumbent telephone company in McCall and uses DSL technology. DSL is asymmetrical (the download speed is much faster than the upload speed) and is capable of download speeds up to 100 Mbps (Mega Bits Per Second). However, most consumers accessing the internet via DSL access speeds between 5 – 25 Mbps.

**Coaxial Cable** uses copper cable designed with one physical channel that carries the signal surrounded by a layer of insulation and then another physical channel, both running along the same axis – hence the coaxial name. Coaxial cable is primarily used by cable TV companies to connect transmission facilities to customer homes and businesses to deliver cable T.V. and internet access. Charter/Spectrum is the incumbent cable company in the McCall area. Coaxial Cable is asymmetrical and is capable of download speeds up to 940 Mbps.

**Fiber Optic Cable** sends information down strands of glass known as optical fibers which are about the size of a human hair. These fiber optic strands are capable of transmitting 25 Tbps (Tera Bits Per Second) today and researchers have successfully demonstrated a transmission experiment over 1045 km (kilometers) with a data-rate of 159 Tbps (<https://phys.org/news/2018-04-fiber-transmission.html>). Fiber-optic cables carry information between two places using optical (light-based) technologies which convert electrical information from the computer into a series of light pulses. Fiber Optic Cable is capable of symmetrical speeds up to 25 Tbps.

Because the difference in capacity between fiber optics and alternative media is so significant, **fiber optics should be the foundational media for any new broadband infrastructure project when financially feasible.**



**Wireless Internet** access is made possible via radio waves communicated to a person's home computer, laptop, smartphone, or similar mobile device. Wireless Internet can be accessed directly through providers like AT&T Wireless, Verizon Wireless, T-Mobile or by a Wireless Internet Service provider (WISP).

**5G** is the 5th generation of technology used in cellular networks and refers to a standard for speed and connection. Because of the extensive marketing around the emergence of 5G, many people wonder whether 5G will replace fiber optic cables. In fact, 5G depends on fiber optic infrastructure. All wireless technologies work best the faster they get back to fiber optics. The graphic above is not to scale (fiber has much greater capacity than the illustration represents) but this illustrates the magnitude of the difference between the different media types. The emergence of 5G is very early but there is a potential revenue opportunity for 5G carriers to operate on City infrastructure and contribute to the ongoing cost of network operations. Cellular networks can be symmetrical or asymmetrical and are sometimes capable of download speeds up to 2,000 Mbps

**Wi-Fi** is common in homes and commercial buildings and is a way to deliver a network connection from a network hub over a wired connection to wireless devices via a wireless access point. Most people access the internet over a WiFi connection, but it is important to remember that wireless connectivity ultimately depends on a wired connection and wireless access works best the faster it gets back to a wire.

## Impact of Bandwidth on Applications

Length & Type of Media	Approx Size	10 Mbps	20 Mbps	100 Mbps	1,000 Mbps
4-Minute Song	4 MB	3 sec	1.5 sec	0.3 sec	0.03 sec
5-Minute Song	30 MB	26 sec	13 sec	2.5 sec	0.2 sec
9-Hour Audio Book	110 MB	1.5 min	46 sec	9.2 sec	0.9 sec
45-Minute TV Show	200 MB	3 min	1.5 min	16 sec	1.7 sec
45-Minute HDTV Show	600 MB	8.5 min	4 min	50 sec	5 sec
2-Hour Movie	1.0-1.5 GB	21.5 min	10.5 min	1.5 min	8 sec
2-Hour HD Movie	3.0-4.5 GB	60 min	32 min	4.5 min	25 sec
Large Archive File	10 GB	Too Long	Slow	Better	80 sec

### Upload vs Download Speeds

In addition to the fact that fiber optics offer exponentially greater bandwidth than DSL and cable, fiber optic cable also offers the ability to deliver symmetrical speeds. In an asymmetrical connection, the download speeds are much faster than upload speeds.

Upload speed is the amount of data a person can **send** in one second and download speed is the amount of data a person can **receive** in one second. Upload speeds can be especially important for businesses, including home-based businesses or people who work from home. Applications that depend on good upload speeds include sending large files, cloud applications like Google Docs and Dropbox, VoIP, FaceTime, Skype, hard drive backups and In-house web hosting.

### Assessment of Existing Broadband Infrastructure

A 2017 Deloitte Consulting analysis summarizes the current needs and realities for legacy broadband infrastructure in the United States this way:

*“The United States requires between \$130 and \$150 billion over the next 5–7 years to adequately support broadband competition, rural coverage and wireless densification.”*

Despite the demand and potential economic benefits of fiber deployment, the United States lacks the fiber density in access networks to make the bandwidth



# Broadband Master Plan

advancements necessary to improve the pace of innovation and economic growth.

Some wireline carriers are reluctant or unable to invest in fiber for the consumer segment despite the potential benefits. Expected wireline capital expenditures range between 14–18 percent of revenue. Wireline operating expenditures can be 80 percent of revenue. Fiber deployment in access networks is only justified today if a short payback period can be guaranteed, a new footprint is being built, repairs from rebuilding after a storm or other event justifies replacement, or in subsidized geographies where Universal Service funds can be used. The largest US wireline carriers spend, on average, five to six times more on operating expenses than capital expenditures. Excessive operating expenditures caused, in part, by legacy network technology restrict carriers’ ability to leverage digital technology advancements. Worse, as legacy networks continue to descale, the percentage of fixed costs overwhelms the cost structure leading to even greater margin pressure.”

Citation: <https://www2.deloitte.com/content/dam/Deloitte/us/Documents/technology-media-telecommunications/us-tmt-5GReady-the-need-for-deep-fiber-pov.pdf>

The Deloitte report is not specific to infrastructure in McCall, Idaho, but the conclusions from the Deloitte report are generally applicable. **Telco and Cable operators in U.S. cities often have fiber to an aggregation point and then legacy infrastructure from the aggregation point to the premise.**

The primary finding of the Deloitte report is that legacy infrastructure needs to be replaced with Fiber Optic cable in the near-term to meet bandwidth demands. There is no indication that incumbents intend to replace legacy infrastructure with Fiber Optic infrastructure in the near term and even if they did, this upgrade would solve the base infrastructure problem but it would not solve for the lack of competition or premium pricing for Gig speeds.

Legacy copper and coaxial infrastructure will need to be replaced with state-of-the-art infrastructure in order to meet the ever-growing demands for greater bandwidth and faster speeds. An important question is whether unique value can be derived by having the City and its residents own and control this infrastructure or whether private companies should continue to own and operate all communications infrastructure.

Ideal infrastructure includes more than just the fiber optic cables running throughout the City. Important infrastructure considerations include the electronics at both ends of the fiber as well as systems that manage and control the network. As the City deploys its infrastructure, the following are important considerations guiding its decision-making framework:

## Deloitte.

*“The United States requires between \$130 and \$150 billion over the next 5–7 years to adequately support broadband competition, rural coverage and*

*“The primary finding of the Deloitte report is that legacy infrastructure needs to be replaced with Fiber Optic cable in the near-term to meet bandwidth demands.”*



- **Capacity & Speed:** The demand for bandwidth and speed will continue to grow.
- **Emerging Services and Applications:** 5G, connected vehicles, edge computing, and virtual reality are all examples of emerging applications that have infrastructure dependencies. An important consideration is how flexible the business model and technology systems are to enable whatever may come.
- **Local Control:** An advantage of a network that is locally controlled is that the network can be much more responsive to local needs and may enable innovation and adaptation for emerging opportunities.
- **Local Resilience:** Many communities are not locally resilient against attacks on internet infrastructure. It is possible to design networks in a way that provides residents and businesses with a network that is locally resilient if, for some reason, middle mile connections are severed.
- **Privacy & Security:** Subscribers are becoming increasingly sensitive to security, privacy, and confidentiality controls.
- **Risk Analysis:** Consideration of the risks for all potential network stakeholders is an essential part of the planning process.

## Market Analysis

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In McCall, most residents and businesses subscribe to wireline internet services from the cable operator (Cable One/SparkLight) and telephone incumbent (formerly Frontier, now Ziplly). Additionally, residents in McCall have a wireless connectivity option available through Wilderness Wireless.

### SparkLight

SparkLight advertises the following residential ISP services in northern Idaho:

Speed (Mbps) [Down / Up]	Introductory Pricing [contract required]	Standard Pricing [not including taxes & fees]	Data Caps
100 / 10	\$39.00	\$55.00	300 GB
200 / 20	---	\$65.00	600 GB
300 / 30	---	\$80.00	900 BG
940 / 50	---	\$125.00	1,200 GB



Shared Network – Speeds are “Up To” not guaranteed.

Speeds are not Symmetrical

Additional Data - \$10.00 per 100 GB used

**Availability depends upon location – not available in all areas.**

## ZiPLY Fiber

ZiPLY recently bought out the Frontier Communications infrastructure in McCall and advertises the following package in McCall:



Speed (Mbps) [Down / Up]	Introductory Pricing [contract required]	Standard Pricing [not including taxes & fees]
25 / 2	\$41.00	\$59.00

Shared Network – Speeds are “Up To” not guaranteed.

Speeds are not Symmetrical

Soft Data Caps apply to all service plans

**Availability depends upon location – not available in all areas.**

## Wilderness Wireless

Wilderness Wireless offer the following residential services in McCall:



Speed (Mbps) [Down / Up]	Standard Pricing [not including taxes & fees]	Install Fee [not including taxes & fees]
8 / 2	\$59.00	\$129.00
10 / 3	\$69.00	\$129.00
12 / 4	\$79.00	\$129.00

Shared Network – Speeds are “Up To” not guaranteed.

Speeds are not Symmetrical

Soft Data Caps apply to all service plans

**Availability depends upon location – not available in all areas.**

## Community Engagement Plan

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*This Community Engagement Plan is an outline of the marketing, community education, and customer acquisition activities the City may follow to attract and sign up subscribers to the network.*

*Please Note: The Plan outlined below is offered as a possible supplement to the [McCall RAPID Marketing Plan](#) created by the City's Communications Department, attached as Exhibit A.*

### Goals & Objectives

The objective of the *McCall Community Engagement Plan* is to achieve a minimum of a 60% take-rate for homes and businesses within the City. Additionally, a scale of 1,800 subscribers is an important target for the project to be operationally sustainable over the long run. In the financial section later in the report, the financial models are built to a target of a 60% take-rate. The modeling can easily be adjusted to match actual take-rates.

### Evaluation & Education

Document the current state of broadband in McCall and determine the level of interest among residential users and business owners through surveys, neighborhood outreach, and door to door sales activities.

### Community Survey

A City specific website ([rapidmccall.com](http://rapidmccall.com)) has been deployed and includes a survey for residential and business owners and will be used to determine priorities for consumers and issues that are of particular interest to potential network customers. Responses will be used to develop an education and promotion program to increase understanding of the value proposition offered by the City.

### Publish Educational Information

A website has been created and will be used to outline the core message of broadband as a utility and will educate potential subscribers on the value proposition offered by the City. Customized videos will be used to educate online visitors on the following:

- a. Functionality of the community fiber network
- b. Options for services
- c. Frequently Asked Questions (FAQ's)
- d. Inquiry Form where community members can submit questions to the City

## Mapping Community Interest

The website will include an “I am interested” sign-up form with associated heat map where residential and business property owners can register as someone interested in City fiber.

## Marketing & Promotion

Press Releases will be used to promote the City fiber program, drive traffic to the fiber website with the goal of educating community members and generate interest and encourage community participation in the survey. The City will also use all available social media platforms (Facebook, Twitter, etc.) to promote the fiber network.

## Neighborhood Entrance and Yard Signs

As fiber construction begins in a neighborhood, McCall will post signs at neighborhood entrances announcing the construction to let residents know they can still sign-up to get connected while crews are in the neighborhood.

As homes are connected in the neighborhood, yard signs will be placed in the yards of subscribers indicating that the home is a new customer and will enjoy a fiber broadband connection.

The City will partner with an internet? Banner Ad company to deliver targeted Banner Ads to the neighborhoods that are next in line for sign-up and construction.

## Grassroots Engagement

### Open House Events

McCall will hold a series of Open Houses where residents and business owners can hear an educational presentation about the fiber project, become educated about the benefits of fiber and automated open access, and get questions answered.

Open Houses will be promoted using the City website, social media platforms, banner ads, flyers, and door hangers.

Open House events are intended to educate residents, promote the network, and identify Fiber Champions in the various neighborhoods (fiber zones). Fiber Champions are individuals that are committed to promoting the network within their neighborhood. Fiber Champions are also incentivized to have their neighborhood prioritized for construction as construction will often move from highest to lowest demand.

## Fiber Champions

Fiber Champions assist sales efforts within their designated neighborhood (fiber zone). They organize and lead Cottage Meetings where neighbors come together to discuss the McCall fiber program. McCall leaders and employees provide support to the Fiber Champions in their efforts. Fiber Champions drive conversations and contractual commitments of neighbors via the Door-to-Door Sales and Education campaign.

## Door-to-Door Sales Effort

Network sales agents (typically an independent group representing the network) contact residents and business operators within the planned network footprint to answer questions about the network and ascertain the potential subscribers' intentions regarding their participation in the network. [Yes (Opt-in) or No (Opt-out)].

This direct person-to-person contact gives everyone in the community an opportunity to ask questions, clarify their understanding and express their level of interest in participating.

To maximize the effectiveness of this process, prior to canvassing a neighborhood, door hangers are distributed to every home and business informing property owners that a representative will be stopping by to explain the value proposition, answer questions and get their Opt-in / Opt-out decision.

It is important that McCall support this effort through public notifications, press releases, mass emails, websites, social media sites, mobile applications, and other community outreach venues available to McCall. This may include outside professional marketing and/or PR firms.

The Door-to-Door Sales campaign can be funded via a network sign-up fee.

## Business Model – Automated Open Access

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Automated Open Access is a model where the network operator places electronics at both ends of the network and subscribers can dynamically select service providers in real-time. Software Defined Networking is used to automate various network management tasks.

In this model, multiple service providers can deliver services simultaneously and independently across a single wire. When a subscriber selects a new service provider, the provisioning is done using automation and therefore happens on-

demand. The automated provisioning creates a marketplace for services which includes ISP's and private networks for other services. The ability to switch service providers on demand increases choice and competition. This network model also includes the ability to provide local network resilience via local communications if connections over the middle mile are down.

## Network Design

The Automated Open Access model uses a Switched Ethernet Network architecture rather than a Passive Optical Network (PON) architecture.

### Switched Ethernet Network

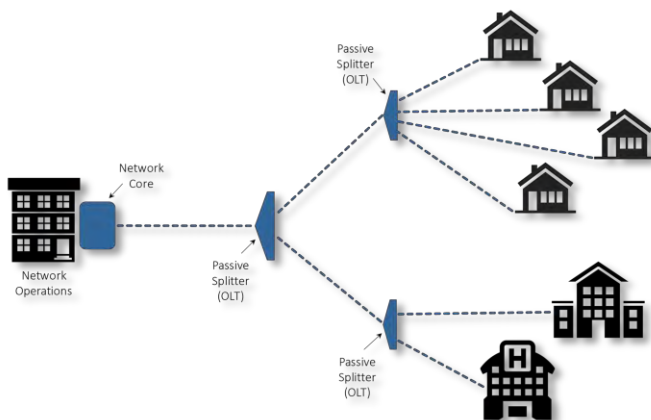
The Switched Ethernet architecture provides a dedicated connection for each customer rather than a shared connection and the customer experience is significantly better than in a shared architecture. This is due to the fact that the throughput of switch-based architecture is superior to a bus-based architecture during times of network congestion.

### Passive Optical Network (PON)

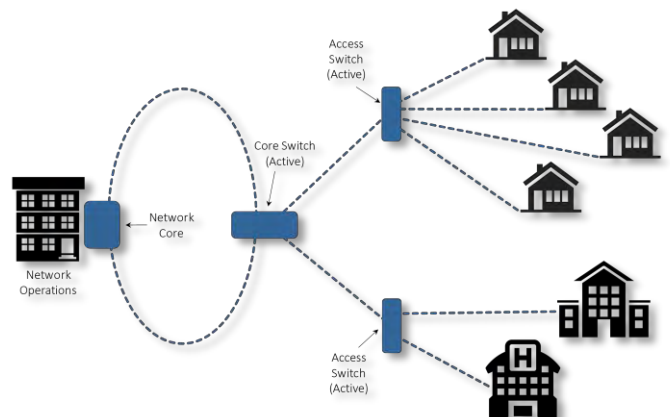
Passive Optical Networks (PON) and Coaxial (Cable) networks follow a Bus architecture.

A Bus architecture is a shared architecture. A splitter is placed in the field and a connection is often shared between 32 or 64 premises. The Bus Architecture leads to more packet collisions on the network which can result in high amounts of packet loss during congestion. Additionally, it is more difficult to isolate and troubleshoot faults in the network with a bus topology.

Passive Optical Network (PON) Design



Switched Ethernet Network Design



Proponents of PON Architecture will argue that PON is less expensive than an ethernet design. That was true historically. The illustration below shows that the variable costs of a switched ethernet deployment is now equal to PON. This change in pricing differences was driven by the fact that all Data Center deployments use Switched Ethernet architectures and the enormous growth of Data Centers over the past 20 years has driven down the cost of Ethernet electronics.

### PON - Network Access Equipment

Description	Unit Cost	Qty	Extended Cost
Install Package	\$696.50	1	\$696.50
OLT	\$4,196.50	2	\$8,393.00
10GE SFP+	\$837.90	2	\$1,675.80
2x 1GE BIDI CSFP	\$157.50	24	\$3,780.00
Access Line-up			\$14,545.30
Number of Subscribers Served			96
Average Cost per subscriber			\$151.51

### PON - Premise Equipment

Description	Unit Cost	Qty	Extended Cost
Indoor ONT	\$225.15	1	\$225.15
Power supply for 700GE ONT	\$12.00	1	\$12.00
Premise Line-up			\$237.15
Number of Subscribers Served			1
Average Cost per subscriber			\$237.15

### Per Premise PON Equipment Costs

Total cost per Subscriber			<b>\$388.66</b>
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### Ethernet - Network Access Equipment

Description	Unit Cost	Qty	Extended Cost
Switch	\$1,700.00	2	\$3,400.00
SFP	\$12.00	96	\$1,152.00
Access Line-up			\$4,552.00
Number of Subscribers Served			96
Average Cost per subscriber			\$47.42

### Ethernet - Premise Equipment

Description	Unit Cost	Qty	Extended Cost
White Box VBG	\$330.00	1	\$330.00
1000Base 1310nm-Tx/1550nm RX 10km	\$9.00	1	\$9.00
Premise Line-up			\$339.00
Number of Subscribers Served			1
Average Cost per subscriber			\$339.00

### Per Premise Ethernet Equipment Costs

Total cost per Subscriber			<b>\$386.42</b>
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## Project Partners

### Middle Mile

“Middle-mile” is an industry term that describes the network infrastructure that connects local networks to service providers at an Internet Exchange Point. The “last mile” is the local part of a communication network which connects a service provider to a customer. Current Middle Mile options include SparkLight (10 Gig), Syringa Networks (10 Gig) and Ziplly (1 Gig), the company that acquired the Frontier assets.

Approximately 2,500 customers can be served by a 10 Gbps circuit. Peak usage is an important data point for monitoring and is used to inform capacity planning. As the customer base in McCall grows, capacity will need to be adjusted. The cost of the middle mile connection should be allocated on a per subscriber basis

## Internet Service Providers (ISP) Partners

An Internet Service Provider gives subscribers access to the internet. Because the City of McCall network will be organized as an Open Access Network, it will have multiple ISP's offering services to subscribers.

The Internet Service Providers (ISP) listed below have expressed a verbal interest in being service providers to McCall subscribers. The participation of these ISP's will be formalized through an MOU process.

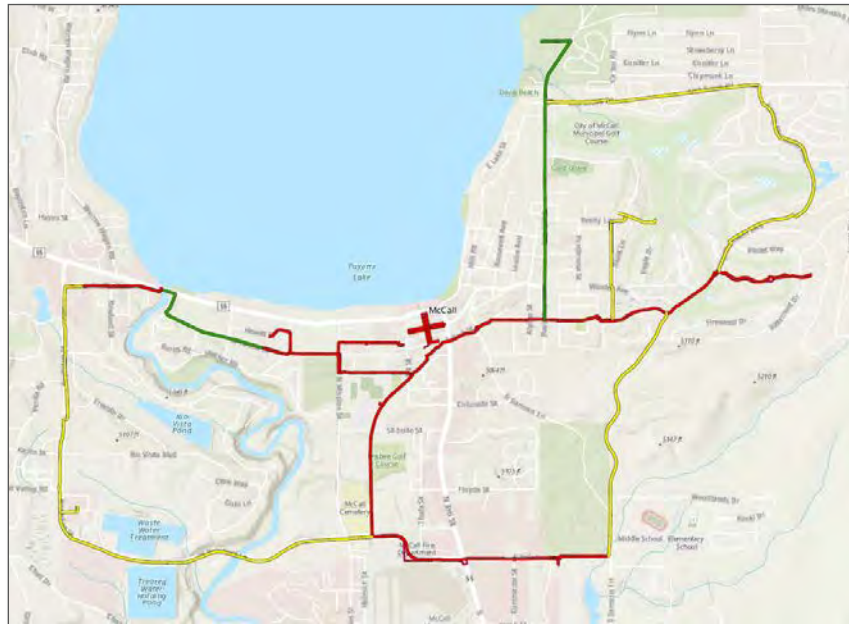
### Internet Service Providers –

- Wilderness Wireless – <https://ww2.wildwisp.com/index.html>
- Fybercom – <https://www.fybercom.net/>
- QwikNet – <http://qwk.net/>
- Sumo Fiber – <https://sumofiber.com/>

## Cost Analysis & Phasing

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### Backbone Build-Out | 2019 - 2022



**Backbone Phase 1 (2019) - Red (Currently Installed)**

**Backbone Phase 2 (2020) – Yellow**

Contractor: Idaho Site Prep



### Spring Mountain Blvd Route

Construction Labor: \$340,435.00

Materials: \$46,000

Distance: 18,000 linear feet

### Deinhard Route (Bid – 2020 Additional Route)

Construction Labor: \$214,063.00

Materials: \$30,000

Distance: 11,000 linear feet

### Backbone Phase 3 (2021/2022) Green

Projected Construction Labor: \$420,000

Materials: \$60,000 (est)

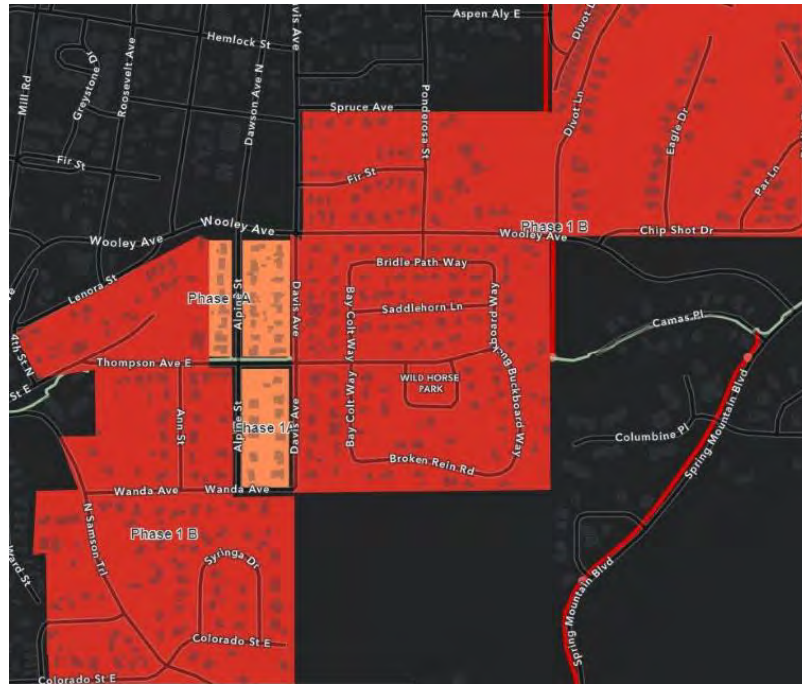
### Residential Pilot (2020) – 25 Homes

A residential pilot is planned for 2020 that will include between 20 – 30 homes on Alpine Street and Davis Avenue. The residential pilot will allow the McCall leadership to test financial models and customer acquisition strategies and will also provide a demonstration of the system the city is deploying.



### Local Improvement District #1 (2021) – 300 Homes

Pending a successful residential pilot project in 2020, the Broadband Committee will seek approval for the first Broadband Local Improvement District in 2021 which will include approximately 300 homes.



## High Level Network Design

A high-level network design was done for the residential pilot neighborhood in order to build a cost model for that project. The Biarri Networks Fiber Optic Network Design Tool was used to create the design and calculate materials costs for these designs. The main cost categories for deploying and operating broadband networks are separated to optimize the costs in each of the following categories -

- Infrastructure Capital Costs (Financed over 20-25 years)
- Network Maintenance & Operations
- Services

## Infrastructure Capital Costs

The cost modeling that follows assumes the City has established its fiber optic backbone.

## Monthly Infrastructure Cost

The first illustration of Infrastructure Capital Costs per premise assumes a 60% take-rate and a project that is 100% underground. The data in the line items in this model come from a combination of the Biarri Network Design tool, actual bids for materials, and network buildout experience.



# Broadband Master Plan

Take-rate is a variable that is critical to project success because the operational sustainability of a project depends on crossing a certain take-rate threshold and take-rate has a meaningful impact on the cost per premise.

## Monthly Infrastructure Cost Modeled From 25 Premises

The second illustration of Infrastructure Capital Costs per premise assumes a 60% take-rate and a project that is 100% underground. We can adjust these variables on a neighborhood by neighborhood basis as needed.

Costs at 60% Take Rate			
100% Buried			
Description	Common	Drop	Total
Labor - Hours	20.83	5.00	25.83
Labor - Dollars	\$1,250.00	\$300.00	\$1,550.00
Equipment	\$370.72	\$57.25	\$427.97
Materials	\$483.62	\$158.71	\$642.33
Supplies	\$93.27	\$5.63	\$98.90
Restoration	\$48.10	\$1.76	\$49.86
Hut/Cabinet	\$108.07	\$5.90	\$113.97
Feeder Fiber	\$36.02	\$0.99	\$37.01
Engineering	\$31.10	\$1.03	\$38.13
Professional Services	\$148.42	\$15.16	\$163.58
Electronics	\$166.67	\$350.00	\$516.67
Subscriber Acquisition	\$0.00	\$0.00	\$0.00
<b>Total</b>	<b>\$2,741.97</b>	<b>\$896.43</b>	<b>\$3,638.40</b>
<b>Monthly Infrastructure Fee</b>		<b>\$21.19</b>	

## Why Take-Rate is Important

The following table illustrates the impact of take-rate on total cost per premise with a rate of 60% as neutral on impact.

Take-Rate	Cost/Sub	Subscribers	Difference	vs. 60% Take-Rate
5.00%	\$33,800.03	202	-	(\$30,161.63)
10.00%	\$17,348.23	403	\$16,451.80	(\$13,709.83)
15.00%	\$11,864.30	605	\$5,483.93	(\$8,225.90)
20.00%	\$9,122.33	807	\$2,741.97	(\$5,483.93)
25.00%	\$7,477.15	1,009	\$1,645.18	(\$3,838.75)
30.00%	\$6,380.36	1,210	\$1,096.79	(\$2,741.97)
35.00%	\$5,596.94	1,412	\$783.42	(\$1,958.55)
40.00%	\$5,009.38	1,614	\$587.56	(\$1,370.98)
45.00%	\$4,552.39	1,815	\$456.99	(\$913.99)
50.00%	\$4,186.79	2,017	\$365.60	(\$548.39)
55.00%	\$3,887.67	2,219	\$299.12	(\$249.27)
60.00%	\$3,638.40	2,420	\$249.27	\$0.00
65.00%	\$3,427.48	2,622	\$210.92	\$210.92
70.00%	\$3,246.69	2,824	\$180.79	\$391.71
75.00%	\$3,090.00	3,026	\$156.68	\$548.39
80.00%	\$2,952.91	3,227	\$137.10	\$685.49
85.00%	\$2,831.94	3,429	\$120.97	\$806.46
90.00%	\$2,724.41	3,631	\$107.53	\$913.99
95.00%	\$2,628.20	3,832	\$96.21	\$1,010.20
100.00%	\$2,541.61	4,034	\$86.59	\$1,096.79



# Broadband Master Plan

## Full City-Wide Deployment Infrastructure Network Operations

The following Table summarizes the anticipated cost structure for Network Maintenance & Operations. This schedule produces a monthly M&O fee for the Broadband Utility at \$22.66 per month. The City would need to subsidize network operations until enough scale is established to achieve sustainability.

Residential M&O	Subscriber	Monthly	Annual	Percentage
Costs/Accruals/Reserves	\$22.66	\$584,592	\$7,015,103	100.00%
Power	\$1.41	\$36,288	\$435,452	6.21%
Co-Lo Fees	\$0.35	\$9,072	\$108,863	1.55%
Labor	\$8.00	\$206,400	\$2,476,800	35.31%
Office	\$0.58	\$15,016	\$180,187	2.57%
Vehicles	\$0.73	\$18,770	\$225,234	3.21%
Tools	\$0.21	\$5,443	\$65,318	0.93%
Equipment	\$1.18	\$30,344	\$364,128	5.19%
Supplies	\$0.12	\$3,128	\$37,539	0.54%
Dig-line	\$0.19	\$5,005	\$60,062	0.86%
Maintenance	\$1.18	\$30,344	\$364,128	5.19%
Call Center	\$0.36	\$9,385	\$112,617	1.61%
Network Operations Center (Monitoring)	\$0.36	\$9,385	\$112,617	1.61%
Equipment Refresh costs (Reserves)	\$2.00	\$51,600	\$619,200	8.83%
Licenses Fees (SaaS, Etc.)	\$2.00	\$51,600	\$619,200	8.83%
Rentals	\$0.50	\$12,900	\$154,800	2.21%
Business Insurance	\$0.00	\$0.00	\$0.00	0.00%
Bad Debt	\$0.46	\$11,887	\$142,648	2.03%
Equipment Replacement	\$0.02	\$626	\$7,508	0.11%
Taxes and Fees (Property)	\$0.00	\$0	\$0	0.00%
Middle Mile	\$2.00	\$51,600	\$619,200	8.83%
Reserves	\$1.00	\$25,800	\$309,600	4.41%
Total	\$22.66	\$584,592	\$7,015,103	100.00%

## Network Management & Operations Cost Structure

The numbers and categories in this model are derived from many years of experience with actual costs for Broadband projects. Labor costs are modeled to reflect Idaho wages.

## Staffing Modeling for Internal Network Operations

The following Table models the cost structure for the positions needed for the City of McCall to operate the network with City employees. The model provides sufficient resources for network management and operations. The model does not include resources for construction. The cost structure improves with economies of scale (subscriber growth). The City will need to subsidize this department through the first 6-7 years of operations and that investment will be paid back by operational surpluses as subscribers grow beyond 1,800. The work that will be done by the Network Operations Department includes network



# Broadband Master Plan

July 2020

monitoring, network management, outside plant repairs, & new customer installations. Losses in Years 1-6 is being mitigated by leveraging existing City resources.

Position	Fully Compensated Hourly Rate	Fully Compensated Monthly Cost	Fully Compensated Annual Cost
Manager	\$48	\$8,251	\$99,008
Network Admin	\$39	\$6,795	\$81,536
I.T. Technician	\$28	\$4,853	\$58,240
Outside Manager	\$28	\$4,853	\$58,240
Outside Plant Tech	\$22	\$3,883	\$46,592

## Subscriptions & Staffing Projections

Subscribers	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
New Subscribers	20	300	300	300	300	300	300	300	300	0
# of Subscriber at year end	20	320	620	920	1,220	1,520	1,820	2,120	2,420	2,420
Labor Allocation	\$8.00	\$8.00	\$8.00	\$8.00	\$8.00	\$8.00	\$8.00	\$8.00	\$8.00	\$8.00
Cash Flow from Labor	\$960	\$16,320	\$45,120	\$73,920	\$102,720	\$131,520	\$160,320	\$189,120	\$217,920	\$232,320

Staffing Projections	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
Manager	0	0	0	0	0	0	0	0	0.5	0.5
Network Admin	0	0	0	0.5	1	1	1	1	0.75	1
IT Technician	0	0	0.5	0	0	0.5	0.5	1	1	1
Outside Plant Manager	0	0	0	0	0	0	0	0	0	0
Outside Plant Laborer	0	0.25	0.5	0.5	0.5	0.5	1	1	1	1

Position	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
Manager	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$49,504	\$49,504
Network Admin	\$0	\$0	\$0	\$40,768	\$81,536	\$81,536	\$81,536	\$81,536	\$61,152	\$81,536
IT Technician	\$0	\$0	\$29,120	\$0	\$0	\$29,120	\$29,120	\$58,240	\$58,240	\$58,240
Outside Plant Manager	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Outside Plant Laborer	\$0	\$11,648	\$23,296	\$23,296	\$23,296	\$23,296	\$46,592	\$46,592	\$46,592	\$46,592
<b>Total</b>	<b>\$0</b>	<b>\$11,648</b>	<b>\$52,416</b>	<b>\$64,064</b>	<b>\$104,832</b>	<b>\$133,952</b>	<b>\$157,248</b>	<b>\$186,368</b>	<b>\$215,488</b>	<b>\$235,872</b>
Net	\$960	\$4,672	-\$7,296	\$9,856	-\$2,112	-\$2,432	\$3,072	\$2,752	\$2,432	-\$3,552



# Broadband Master Plan

July 2020

## Project Pro-Forma

Financial Pro-Forma of Full Project Costs – 10 Year Build – Ethernet Architecture

Projected Phase 2	\$630,498.00
Projected Phase 3	\$420,000.00
Projected Cost Per Premise (Common and Drop)*	\$3,638.40
Estimated Subscribers	2,420
Total Cost (Common & Drop) (Includes Professional Services)	\$7,537,943.70
Total Projected Project Costs	\$7,537,943.70

*\* Assumes 100% underground, 60% take rate & short-term interest rate of 8% and long-term bond rate of 4% for 25 years.*

## Projected Subscription Costs

Projected Residential Services Monthly Costs	<u>100% Underground</u>
Infrastructure	\$21.19
Maintenance and Operations	\$22.66
ISP Service ( <i>Dedicated 1 GB Symmetrical</i> )	<u>\$9.99</u>
Monthly Total	\$53.84
Projected Business Services Monthly Costs	<u>100% Underground</u>
Infrastructure	\$21.19
Maintenance and Operations	\$39.95
ISP Service ( <i>Dedicated 1 GB Symmetrical</i> )	<u>\$49.99</u>
Monthly Total	\$111.13

*The Residential \$9.99 monthly ISP fee listed above is based upon current pricing from the list of ISPs interested in providing services in McCall.*

*The differences between Residential and Business pricing are based on the need for many businesses to have 24x7 customer support.*



# Broadband Master Plan

July 2020

## Projected Capital Expenditures & Funding

Timeline	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10+	Total
<b>Capital Costs</b>											
Phase 1	\$630,498	\$0									\$630,498
Phase 2	\$0	\$420,000									\$420,000
Subscriber Drops	\$17,929	\$268,929	\$268,929	\$268,929	\$268,929	\$268,929	\$268,929	\$268,929	\$268,929	\$0	\$2,169,361
Subscriber Common	\$54,839	\$822,590	\$822,590	\$822,590	\$822,590	\$822,590	\$822,590	\$822,590	\$822,590	\$0	\$6,635,559
Interest Reserve (Drops)	\$2,911	\$49,482	\$43,661	\$43,661	\$43,661	\$43,661	\$43,661	\$43,661	\$43,661	\$0	\$358,018
Interest Reserve (Backbone)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>Total</b>	<b>\$706,177</b>	<b>\$1,561,001</b>	<b>\$1,135,180</b>	<b>\$1,135,180</b>	<b>\$1,135,180</b>	<b>\$1,135,180</b>	<b>\$1,135,180</b>	<b>\$1,135,180</b>	<b>\$1,135,180</b>	<b>\$1,135,180</b>	<b>\$10,213,436</b>
<b>Short Term Financing</b>											
New Backbone	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Retired											
<b>Total</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>
New Build	\$72,768	\$1,091,519	\$1,091,519	\$1,091,519	\$1,091,519	\$1,091,519	\$1,091,519	\$1,091,519	\$1,091,519	\$0	\$8,804,920
<b>Total</b>	<b>\$72,768</b>	<b>\$1,164,287</b>	<b>\$1,091,519</b>	<b>\$1,091,519</b>	<b>\$1,091,519</b>	<b>\$1,091,519</b>	<b>\$1,091,519</b>	<b>\$1,091,519</b>	<b>\$1,091,519</b>	<b>\$0</b>	<b>\$8,804,920</b>
<b>Long Term Funding</b>											
New Backbone			\$0	\$0							\$0
New Build			\$1,216,680	\$1,135,180	\$1,135,180	\$1,135,180	\$1,135,180	\$1,135,180	\$1,135,180	\$1,091,519	\$8,804,920
<b>Total Backbone</b>			<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>					
<b>Total Build</b>			<b>\$1,216,680</b>	<b>\$2,351,860</b>	<b>\$3,487,039</b>	<b>\$4,622,219</b>	<b>\$5,757,399</b>	<b>\$6,892,579</b>	<b>\$8,027,758</b>	<b>\$9,119,277</b>	



# Broadband Master Plan

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## Projected Income & Cash Flow

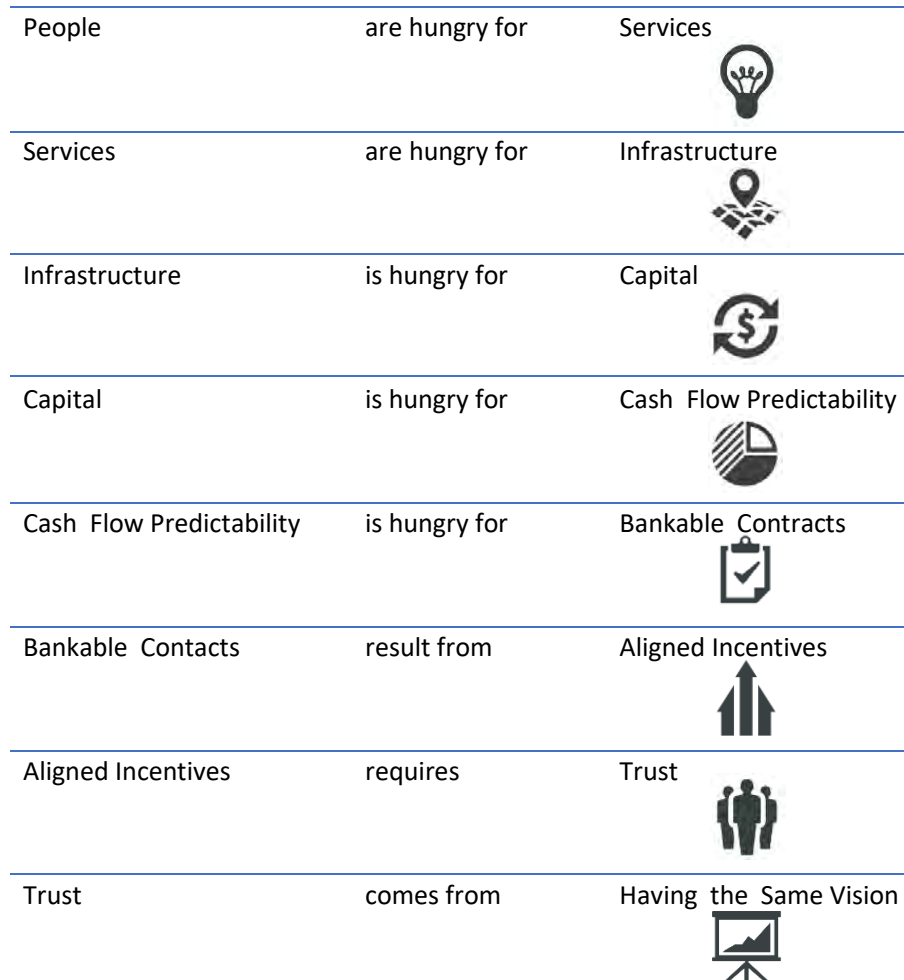
Timeline	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10 +
<b>Subscribers</b>										
New Subscribers	20	300	300	300	300	300	300	300	300	-
# of Subscriber at year end	20	320	620	920	1,220	1,520	1,820	2,120	2,420	2,420
<b>Income Statement (Revenue)</b>										
Infrastructure Fees	\$2,543.40	\$43,237.75	\$119,539.66	\$195,841.57	\$272,143.48	\$348,445.39	\$424,747.30	\$501,049.21	\$577,351.13	\$615,502.08
Maintenance and Operations	<u>\$2,719.03</u>	<u>\$46,223.54</u>	<u>\$127,794.50</u>	<u>\$209,365.46</u>	<u>\$290,936.42</u>	<u>\$372,507.38</u>	<u>\$454,078.34</u>	<u>\$535,649.30</u>	<u>\$617,220.26</u>	<u>\$658,005.74</u>
Total Revenue	\$5,262.43	\$89,461.29	\$247,334.16	\$405,207.04	\$563,079.91	\$720,952.78	\$878,825.65	\$1,036,698.52	\$1,194,571.39	\$1,273,507.82
<b>Operating Costs (Expenses)</b>										
Maintenance and Operations	-\$2,359.03	-\$40,103.54	-\$110,874.50	-\$181,645.46	-\$252,416.42	-\$323,187.38	-\$393,958.34	-\$464,729.30	-\$535,500.26	-\$570,885.74
M&O Labor Difference	\$960.00	\$4,672.00	-\$7,296.00	\$9,856.00	-\$2,112.00	-\$2,432.00	\$3,072.00	\$2,752.00	\$2,432.00	-\$235,872.00
Middle Mile Difference (assuming \$2,500/mo.)	-\$14,760.00	-\$10,920.00	-\$3,720.00	\$3,480.00	\$10,680.00	\$17,880.00	\$25,080.00	\$32,280.00	\$39,480.00	\$43,080.00
Equipment Refresh/Replacement	\$0.00	\$0.00	\$0.00	-\$3,384.00	-\$5,544.00	-\$7,704.00	-\$9,864.00	-\$12,024.00	-\$14,184.00	-\$16,344.00
Interest Reserve	-\$2,910.72	-\$49,482.19	-\$43,660.76	-\$43,660.76	-\$43,660.76	-\$43,660.76	-\$43,660.76	-\$43,660.76	-\$43,660.76	\$0.00
Debt Service Reserve	-\$2,543.40	-\$37,009.97	-\$32,655.86	-\$32,655.86	-\$32,655.86	-\$32,655.86	-\$32,655.86	-\$32,655.86	-\$32,655.86	\$0.00
M&O Reserve	-\$360.00	-\$6,120.00	-\$16,920.00	-\$27,720.00	-\$38,520.00	-\$49,320.00	-\$60,120.00	-\$70,920.00	-\$81,720.00	-\$87,120.00
Total Expenses	-\$21,973.15	-\$138,963.71	-\$215,127.12	-\$275,730.08	-\$364,229.04	-\$441,080.00	-\$512,106.96	-\$588,957.92	-\$665,808.88	-\$867,141.74
Net (Revenue vs Expenses)	-\$16,710.72	-\$49,502.42	\$32,207.04	\$129,476.95	\$198,850.86	\$279,872.77	\$366,718.68	\$447,740.59	\$528,762.51	\$406,366.08
<b>Loan Payment</b>										
Backbone Build Out			\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Total Loan Payments			<u>\$81,780.00</u>	<u>\$158,081.91</u>	<u>\$234,383.82</u>	<u>\$310,685.73</u>	<u>\$386,987.64</u>	<u>\$463,289.55</u>	<u>\$539,591.46</u>	<u>\$612,958.68</u>
Net	-\$16,710.72	-\$49,502.42	-\$49,572.96	-\$28,604.96	-\$35,532.96	-\$30,812.96	-\$20,268.96	-\$15,548.96	-\$10,828.96	-\$206,592.60
<b>Cash Flow</b>										
Capital Expenditures	-\$703,265.93	\$1,511,519.00	\$1,091,519.00	\$1,091,519.00	\$1,091,519.00	\$1,091,519.00	\$1,091,519.00	\$1,091,519.00	\$1,091,519.00	\$0.00
Money Borrowed	\$0.00	\$1,164,286.93	\$1,143,911.91	\$1,135,179.76	\$1,135,179.76	\$1,135,179.76	\$1,135,179.76	\$1,135,179.76	\$1,135,179.76	\$0.00
Net	-\$703,265.93	-\$347,232.07	\$52,392.91	\$43,660.76	\$43,660.76	\$43,660.76	\$43,660.76	\$43,660.76	\$43,660.76	\$0.00
Revenue	\$5,262.43	\$89,461.29	\$247,334.16	\$405,207.04	\$563,079.91	\$720,952.78	\$878,825.65	\$1,036,698.52	\$1,194,571.39	\$1,273,507.82
Cash Expenses	-\$1,399.03	-\$35,431.54	-\$118,170.50	-\$171,789.46	-\$254,528.42	-\$325,619.38	-\$390,886.34	-\$461,977.30	-\$533,068.26	-\$806,757.74
Loan Payments			<u>-\$81,780.00</u>	<u>-\$158,081.91</u>	<u>-\$234,383.82</u>	<u>-\$310,685.73</u>	<u>-\$386,987.64</u>	<u>-\$463,289.55</u>	<u>-\$539,591.46</u>	<u>-\$612,958.68</u>
Net Cash	\$3,863.40	\$54,029.75	\$47,383.66	\$75,335.66	\$74,167.66	\$84,647.66	\$100,951.66	\$111,431.66	\$121,911.66	-\$146,208.60
Accrued Interest	-\$2,910.72	-\$49,482.19	-\$43,660.76	-\$43,660.76	-\$43,660.76	-\$43,660.76	-\$43,660.76	-\$43,660.76	-\$43,660.76	\$0.00
Unrestricted Cash	-\$705,216.65	-\$385,814.49	\$6,539.96	\$14,959.80	\$2,991.80	\$2,671.80	\$8,175.80	\$7,855.80	\$7,535.80	-\$233,328.60
<b>Reserve</b>										
Interest Reserve	\$2,910.72	\$49,482.19	\$43,660.76	\$43,660.76	\$43,660.76	\$43,660.76	\$43,660.76	\$43,660.76	\$43,660.76	\$0.00
Debt Service	\$2,543.40	\$37,009.97	\$32,655.86	\$32,655.86	\$32,655.86	\$32,655.86	\$32,655.86	\$32,655.86	\$32,655.86	\$0.00
Maintenance and Operations	\$360.00	\$6,120.00	\$16,920.00	\$27,720.00	\$38,520.00	\$49,320.00	\$60,120.00	\$70,920.00	\$81,720.00	\$87,120.00
Total Reserve	\$5,814.11	\$92,612.17	\$93,236.62	\$104,036.62	\$114,836.62	\$125,636.62	\$136,436.62	\$147,236.62	\$158,036.62	\$87,120.00
Total Cash	-\$699,402.54	-\$293,202.32	\$99,776.58	\$118,996.42	\$117,828.42	\$128,308.42	\$144,612.42	\$155,092.42	\$165,572.42	-\$146,208.60



## Financing Considerations

Because project feasibility is ultimately a function of getting people to sign up and remain loyal to the network, there needs to be a value proposition that mobilizes customers to subscribe. For that to happen, subscribers need a compelling solution and the network needs to create cash flow predictability and bankable contracts to attract financing for the project. NetEquity in San Francisco visualizes these dependencies in this way:

### NetEquity Stack



*Isfandiyar (Asfi) Shaheen developed the **NetEquity Stack** above. Mr. Shaheen is a Global Broadband Infrastructure Thought Leader based in San Francisco. He is working to provide fiber optic connectivity to unconnected countries around the world.*

## Legal Considerations

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The McCall City Attorney should prepare a separate analysis describing the City's legal authority to build, own, and operate broadband infrastructure and include legal and risk-related considerations for organizing a broadband utility.

## Risk Analysis

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# 9

*Potential Risk  
Factors →  
Likelihood  
Impact  
Mitigation*

The following is an analysis of the main risk factors facing the City of McCall as it pursues its fiber-to-the-premise deployment. Eight potential Risk Factors are analyzed:

1. Subscriber Churn Risk
2. Take-Rate Risk
3. Project Execution Risk
4. Equipment and Technology Risk
5. Community Engagement Risk
6. Cost Modeling Risk
7. Timeline Risk
8. Regulatory Risk
9. Middle Mile Risk

### Subscriber Churn

Subscriber Churn is the risk that customers sign up and then do not remain subscribers to the network.

**Likelihood:** Today customers are primarily driven by cost, speed, and customer service. Churn is possible and is a consequence of the customers pursuing an option to get better value from an alternative solution. The likelihood of churn is high if a new market solution simply replicates the incumbent model. The likelihood of churn goes down under a Business Model where 1) the customer is financially responsible for the drop to their property and 2) where the value proposition is strong enough to make the customer voluntarily committed to the network.

**Impact:** The impact of churn on the network is potentially catastrophic if it reaches a level where the capital and operational cost of the abandoned infrastructure cannot reasonably be shared by remaining subscribers.

**Mitigation:** Churn can be mitigated by implementing a business model that makes customers voluntarily committed to the network and by assigning financial responsibility to customers for their lateral connection.

## Take-Rate Risk

Take-rate risk is the risk that the City builds out the network and ends up with a take-rate that is lower than expected.

**Likelihood:** Take-rate risk is possible and is a function of the value proposition of the network and how well that value proposition gets communicated and managed before construction starts. High take-rates lead to lower network costs for subscribers. This creates a virtuous cycle where lower costs lead to higher take rates. The reverse is also true.

**Impact:** The worst-case scenario is one where lower take rates lead to higher costs and churn which create a death spiral that negatively compounds until the network is not sustainable.

**Mitigation:** Manage demand aggregation before construction begins and give consumers a value proposition that makes them voluntarily committed to the network infrastructure.

## Project Execution

Project Execution includes strategy, planning, project management and fulfillment of the project plan and operational execution.

**Likelihood:** Project execution failure is possible and is a function of the effectiveness of project planning, management, controls, and execution.

**Impact:** The severity of impact is in proportion to the effectiveness of project management and execution. A worst-case scenario is one where project execution affects the value proposition, which in turn affects take-rate and churn.

**Mitigation:** Hire or partner with skilled project managers and key strategic partners. Create alignment among key team members on the project plan and operational plan. Develop project controls that are monitored and reported to senior leadership monthly.

## Equipment & Technology Risk

Equipment & Technology Risk includes both software and hardware solutions and is the risk that equipment failure rates are higher than expected, major

software bugs are unresolved, operational reliability is lower than expected, and/or that the technology lifecycle leads to faster obsolescence than is expected. For a network, the size of McCall, an additional risk is scalability risk. Middle Mile risk covered in the Middle Mile pricing section.

**Likelihood:** Solutions with short deployment histories, unreliable references, unclear quality control and test procedures, weak professional teams, and poorly architected scalability abstractions present increased equipment and technology risk.

**Impact:** The impact of this risk category is moderate because it is possible to vet both software and hardware systems to assess this risk. The base technology of the network will be fiber optic cable and that has sufficient history to present a minor risk to the project. Remaining risks include electronics and software systems.

**Mitigation:** Implement thorough due diligence processes with trained professionals to scrutinize references, architecture, software abstractions, quality control systems and the professional histories of vendors being considered.

## Community Engagement

Community Engagement is the marketing, education and communication processes and strategies used to inform residents and businesses about the value proposition offered by the network.

**Likelihood:** Community Engagement risk is possible but nonetheless a risk that can be managed and monitored. Poor planning, management and execution increases the level of risk. Community engagement can be handled by internal City staff, but risk increases if staff member resources are inadequate for a project of this size. There is an abundant supply of marketing professionals available to assist with community engagement processes.

**Impact:** Community engagement is a key driver of project success due to the relationship between community engagement and take-rate.

**Mitigation:** Leverage the skills of competent marketing professionals and provide sufficient resources to make it easy for every resident to learn the basic value proposition for the network in comparison to alternatives through a variety of marketing, education and communication strategies.

## Cost Modeling Risk

Cost Modeling Risk is the risk that cost modeling significantly underestimates actual design, construction, and/or operational costs.

**Likelihood:** There is enough industry data to reasonably validate cost estimates.

**Impact:** Cost overruns can have a moderate to disastrous impact on network sustainability.

**Mitigation:** Validate financial assumptions against industry assumptions, market conditions, and account for local economic variables.

## Timeline Risk

The current plan is to connect 300 homes per year over a 10-year period. This can be a successful strategy. It is a measured approach and is similar to the strategy the Ammon, Idaho has followed for its buildout. Before finalizing this strategy there are several considerations that should be evaluated:

- 1) Each LID phase requires legal, financing and accounting transaction costs. Building the network with fewer LID's will lower the overall transaction costs for the project.
- 2) Maintenance & Operations does not break even until there are roughly 1,800 subscribers. Building at a faster pace will result in an accelerated period to break-even.
- 3) Interest Rates are at an unprecedented low currently and building over a 10- year period may expose later project years to some interest rate risk.

In the approach followed by Ammon, none of the fiber network loans were organized as City debt. The loans were directly between the subscribers via the LID and the lending institution.

**Likelihood:** Costs are certain to be higher for an extended buildout period. However, there are execution risks for accelerating the buildout and these trade-offs need to be weighed by City leaders.

**Impact:** Costs will be incrementally higher for an extended build-out schedule and M&O will have a longer ramp to sustainability.

**Mitigation:** The City can control the buildout schedule following a cost / benefit analysis of the options. An important consideration is alignment with construction partners. If the city is going to outsource construction, it should consult with potential construction partners about the alternative construction



# Broadband Master Plan

schedules to make sure that the city's strategy is amenable to key construction partners.

## Regulatory Risk

Regulatory Risk is the risk that State or Federal regulations become an impediment or barrier to the city successfully building or operating a municipal network. Idaho state law is unclear on whether cities have the right to build and operate a municipal network. Because the law is unclear, cities have pursued Judicial Confirmations to establish the right to build and operate fiber optic infrastructure. Two of the cities that have followed this path are Ammon and Mountain Home.

**Likelihood:** There is a reasonable amount of risk that an incumbent operator could make a claim to stop McCall from building a competing network.

**Impact:** If a claim were to be brought against McCall, the likely process is that it would take an extensive amount of time and cost to contest or appeal the claim.

**Mitigation:** The McCall City Attorney can oversee an effort to follow the same process followed by Ammon and Mountain Home to seek and receive Judicial Confirmation that the City has the authority to build this infrastructure.

## Middle Mile Risks

Middle Mile risks include the following:

- 1) Lack of redundant options on divergent paths,
- 2) Pricing risk, and
- 3) The risk of being stranded or isolated without a viable path to an internet exchange point.

**Likelihood:** The closest internet exchange point is in Boise. McCall does have a divergent middle mile path to Boise via the three Middle Mile options, but bandwidth capacity is a potential issue going forward.

The most likely risk is that incumbent middle mile carriers will not provide competitively priced, high bandwidth middle mile options.

The risk of getting isolated or cut off from internet access is possible but has a low likelihood of occurring.

**Impact:** Each of the Middle Mile Risks could have a significant impact on network success. The most likely risk is pricing risk followed by insufficient Middle Mile

capacity. The obvious impact of pricing risk is that the per premise cost will increase.

**Mitigation:** The way the City can mitigate and possibly eliminate Middle Mile Risk is by working with the County to build and operate its own Middle Mile connection back to Boise. This may seem daunting to the City and the County, but it is worth doing a separate analysis and comparison of projected costs to proposals from existing incumbents. A significant benefit of the City & County working together to enable a permanent path to Boise is that the infrastructure could be paid off over 30 years and would provide abundant bandwidth to County residents and businesses.

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## *McCall RAPID Marketing Plan Overview*

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### **Introduction**

RAPID is the City of McCall's answer to the community's need for better internet connectivity. A faster and more economical method to get quality internet access to a home or business. RAPID is an open access network that will use McCall's existing underground fiber to allow multiple internet providers to offer citizens in McCall city limits residential and commercial high-speed internet through a single webpage.

The RAPID product/service will be distributed to the community in stages and therefore, each phase will require a carefully planned and executed marketing effort necessary to maximize the reach, potential, gauge strengths, discover opportunities as well as plans to maintain excellent service throughout the life of the utility.

This plan is intended to serve as a first general outline and guide, to McCall City Council, Information Systems staff and those on the planning project team, for addressing the important elements of the plan in reference to sales, advertising and marketing. The Outreach plan includes:

- Project market objectives
- Phased Planning
- Brand identity
- Key messages strategies and tactics
- Roles and responsibilities, reporting and evaluation

This plan is not intended to supersede any existing or future communications plans developed or implemented by Information Systems staff. The plan will be executed in concert with Infosys, the project team and public relations staff.



## Project Market Objectives

The overarching objectives of the RAPID Market plan are as follows:

- ☐ Garner recognition, visibility and community-wide support for the product/service
- ☐ Educate the public how the product works and can improve connectivity
- ☐ Position RAPID as a critical utility with citizens
- ☐ Highlight successful cost savings with successful Local Improvement District (LID) participation.
- ☐ Outline features and benefits
- ☐ Obtain feedback from test group, stakeholders and customers

### Phased Outreach Objectives

- Phase 1A – Test Area
- Phase 1B – First LID
- Phase 2 – Ongoing Phases Service Plan

### Target Audiences

This plan is designed to reach a wide variety of stakeholders. Below are the general target audiences. Specific organizations and individuals are detailed in the appendix to this plan. (*Note: We consider the media to be a vehicle, rather than an audience.*)

- ☐ Citizens of McCall/Government and public officials
- ☐ Technology industry policymakers, business leaders and regional economic development officials/professionals
- ☐ Potential service residential and business customers

### Phased Targeting

- ☐ Phase 1A (Test Area)
  - Homes within the test area as identified. Appendix or Reference page?
- ☐ Phase 1B (First LID)

- Home and businesses within area as identified currently holding adequate underground fiber lines.

☐ Phase 2

- All home and businesses within all areas in the City of McCall with appropriate underground infrastructure.

## Brand Identity

RAPID requires strong name and logo recognition in the community for developing a brand identity that raises awareness, generates enthusiasm and creates visibility. Specifically, we recommend a logo font and tagline to be utilized on all communication materials relating to the plan, including but not limited to:

- ☐ Websites, digital media, and advertisements
- ☐ Transportation, vests, hats
- ☐ Onsite Work signage
- ☐ Contractors serving RAPID
- ☐ Correspondence, Press releases and Presentations
- ☐ Public notices
- ☐ Fliers and door hangers
- Community partner's web posts and newsletters, plans and drafts
- Recommended logo and taglines will be designed to promote continuity of message and establish a unified identity. Through a creative play on words, the proposed tagline theme will position the plan as a forward-thinking initiative with an emphasis on building the future and guiding the Library's vision for tomorrow. The brand identity is used as a unifying theme to foster support and elevate the value and importance of the RAPID product/service
- The current/proposed logo:



- ☐ The current/ proposed tagline: Connecting the City of McCall

## Key Messages

Effective outreach requires a commitment to communicating an agreed-upon platform of key messages. The following three key messages are intended to serve as a guide for communicating with target audiences about RAPID:

### **What**

RAPID is a faster and cheaper way to get quality internet access to your home or business.

### **Why**

RAPID allows multiple internet providers to offer you high speed internet services to both residential and commercial customers through a single webpage allowing better connectivity at reduced costs.

### **How**

RAPID uses McCall's existing underground fiber network.

## **Key Messages and Proof Points**

The three key messages are repeated below with proof points to support them. This is not intended to be a word-for-word script; persuasive communications require that spokesperson(s) convey the key messages in their own words. To ensure consistency in the messages, we recommend that RAPID spokesperson(s) refer to and utilize the guide prior to communications with elected officials, opinion leaders, media, and other interested stakeholders.

- ❑ The City of McCall has identified Internet as an essential service.
- ❑ Fiber optic connections are faster, less expensive and future proof
- ❑ We currently have inadequate connectivity limiting capacities in McCall and the region.
- ❑ Three parts to the RAPID Service.
  - City Utility Fee- A monthly fee, only charged if you have ongoing internet service and can be canceled any time.
  - Internet Service- A monthly fee, only charged if you have ongoing internet service and can be canceled any time.
  - House Connection- A onetime fee with option to finance over 20 years or if your property is already connected to fiber there is no house connection fee.

- ❑ The cost of the RAPID installation can be paid overtime or in one lump sum.
- ❑ The costs of service monthly will vary based on chosen Internet Service Provider.
- ❑ The costs will be reduced with increased participation in a LID.
- ❑ RAPID will give its citizens more options for education, remote work, online efficiency and aid area businesses with future development.
- ❑ The installation of fiber to the property will increase its value.

The RAPID project will be maintained by the Information Systems Manager and staff. Updates will be publicized through the all vehicles of media including digital, and on a dedicated website.

### **Strategies and Tactics**

In order to develop widespread participation and community buy-in for the RAPID project and service, we propose the following overarching communications strategies to occur at three key milestones of the project:

- **Phase 1A – The TEST PHASE**, a residential area is identified receives service free as well as delayed/discounted installation with required opinion and feedback as a part of the process. The feedback is then used to further improve product/service.
- **Phase 1B – The FIRST LID PHASE**, a residential area is identified as a first launch area for service.
- **Phase 2 – The CONTINUING RAPID SERVICE/INSTALLATION PHASE**, all areas with appropriate infrastructure are measured for interest and are candidates to initiate service.

**Strategy:** *Support the RAPID project by generating interest in targeted phase area.*

**We will work with staff to generate interest from local news outlets. Specific tactics may include but are not limited to:**

- ❑ Organize and hold a public meeting to publicly launch RAPID.
- ❑ Develop a media advisory and press release to publicize the public meeting and public launch of RAPID.
- ❑ Pitch media and schedule interviews with Project Leader to discuss RAPID.

- Continue to develop interesting RAPID content on the organization's website

**Strategy:** Utilize neighborhood, community and referral programs to market RAPID.

- ☐ We will leverage existing partnerships and foster new relationships to promote and educate the community on RAPID.
- ☐ Create programs that reward current users for referrals and new subscribers
- Work with HOA's to develop large scale interest in focused areas.
- ☐ Use current utility customer databases to generate interest in RAPID.
- ☐ Utilize door hanger construction notifiers (We are working on RAPID next door)
- ☐ Reach out to community partners to mention the public meeting through websites and their social media platforms such as blogs, Facebook, and Twitter.
- Prepare short articles on RAPID for inclusion in community partners' newsletters, websites, etc.
- ☐ Create and distribute flyers to post on community bulletin boards and hand out at city events.
- ☐ Distribute e-blasts to community partners at key milestones in the process.

**Strategy:** Influence public using social media to promote RAPID and build interest.

Create an individual RAPID social media page to pair with the website.

Consistent coordinated updates with varying levels of frequency.

Create a foundation for social media communications in the future with customers.

- ☐ Develop a system and staff for coordinating RAPID content.
- ☐ Build the number of Facebook followers using other city social pages.
- ☐ Utilize multimedia (videos, etc.) to maximize publicity.
- ☐ Distribute press releases, op-eds, and meeting announcements through social media channels.

- ☐ Regularly monitor the channel to address comments and questions and ensure all posts are consistent with the overall message of RAPID.

### **Roles and Responsibilities**

The City of McCall Information Systems Department in conjunction with the Communications Department will control RAPID in all external and internal communications related to development phases.

### **Evaluation**

At multiple times throughout all phases of the project, we will collect feedback and evaluations of the installation services and internet connect. Identification of the most relevant metrics may be developed in advance may include the following:

- ☐ Feedback with the goal to analyze quality in service and installation.
- ☐ SWOT with each phase.
- ☐ Technical measurements as identified by InfoSys

### **Target Media**

Below is a list of targeted media, grouped by local outlets and industry/trade publications. We anticipate that most of the interest during the strategic planning process will come from local media, primarily print outlets. The final master plan will present the McCall Public Library with an opportunity to promote its vision regionally and through targeted trade media.

#### **Local Outlets:**

- ☐ McCall Star-News
- ☐ McCall Magazine
- ☐ Visit McCall
- ☐ Local Blogs.
- ☐ Local Podcasts
- ☐ Radio - KDZY
- ☐ Radio - STARR
- ☐ KTVB, KBOI, KIVI
- ☐ Idaho Business Review
- ☐ Idaho Statesman



WEST CENTRAL MOUNTAINS  
ECONOMIC DEVELOPMENT COUNCIL  
Valley County · Cascade · Donnelly · McCall · Meadows Valley

July 9, 2020

Director Tom Kealey

Idaho Dept. of Commerce

RE: CFAC Broadband Grant

The West Central Mountains Economic Development Council fully supports the City of McCall's grant funding request for Broadband, available through CFAC/Commerce as part of the CARES Act. With an influx of 10,000+ visitors each week in the summer and winter months, available bandwidth is frequently strained for residential and enterprise systems alike. Moving to a FTTH configuration will allow McCall to add middle mile services relieving some of this pressure.

The following projects are shovel ready and capable or being completed before the Dec. 15<sup>th</sup> deadline. We believe they are high value projects that align with the community's long term needs for enhanced broadband capabilities.

1. Install conduit route along Deinhard. Fiber pulling and splicing – installation and termination of 96 fiber in existing backbone routes. ~10 miles (Includes public Wi-Fi piece for 100 users -- City Hall campus coverage)
2. Beta testing neighborhood – 15-20 homes to show proof of concept for RAPID fiber utility

The City of McCall will be offering matching funds in the amount of ~\$340K, demonstrating a strong commitment to having skin in the game alongside grant funds. We encourage you to consider funding their projects.

Thank you for your time and consideration,



Andrew Mentzer, on behalf of the West Central Mountains EDC board of directors  
WCMEDC.org  
208.703.0161



# State of Idaho Public Broadband Grant Application Public Safety/Local Government

Applicant	Delta James
Applicant ID	APP-004160
Company Name	McCall
Recipient Address	McCall 216 E Park St McCall, ID 83638
Phone	(208) 634-7142
Email	djames@mccall.id.us
Amount Requested	\$771,063.00
Status	Submitted
Funded	<input type="checkbox"/>

Application Title: RAPID McCall Broadband - Connecting Public Services

## Applicant Information

**NOTICE: Grant applications, challenges, and responses to challenges will be posted to the Idaho Department of Commerce website**

### Purpose:

The CARES Act funding received by the State of Idaho will fund projects across the state that create and retain local jobs and result in purposeful outcomes, including distance learning, telehealth public safety, commerce, and overall well-being. This CFAC Broadband Grant initiative grant program (the "Program for Public Safety and Local Government") is designed to meet the CARES Act criteria, and help Idaho rebound from the COVID-19 Emergency. Approximately 20% of the total of \$50 million received by the Idaho Department of Commerce will be allocated to this program aimed at public safety organizations and local governments that lack access to broadband.

**• Projects must be completed and grant funds requested and dispersed before December 15th, 2020.**

**Question:** Contact information of applicant: Name Title Mailing Address City/Zip Email Phone

City of McCall, 216 E. Park Street, McCall, ID 83638 / Chris Curtin, Information Systems Manager, 208.634.8547

**Question:** List the cities/communities where the project(s) will take place.

McCall, Idaho

**Question:** Enter the zip code(s) where the project will take place.

83638

**Question:** Enter name and title of designated grant administrator

Delta James, Economic Development Planner, City of McCall

**Question:** Enter the email of the designated grant administrator

djames@mccall.id.us

**Question:** Enter the phone number of the designated grant administrator

2086343504

## Project Requirements

---

### PROJECT REQUIREMENTS

- Be infrastructure investment, associated equipment, and accessories related to broadband capable of speeds of 1,000 Mbps download and 1,000 Mbps upload symmetrical.
- Be related to broadband with fiber to:
  - One (1) designated government facility: and
  - One (1) location for public Wi-Fi access where 100 citizens could simultaneously access minimum broadband speeds at 25 Mbps download and 3 Mbps upload while practicing physical distancing. Examples of locations include a municipal building parking area or a municipal park.
- Meet the CARES Act criteria, which is designed to address key areas of public health and safety by improving opportunities to telework, facilitate distance learning, and improve public safety.
- Be a project that does not overbuild existing broadband infrastructure at the required speeds to a local government facility for public safety and local governance.
- Applicants may own and maintain the infrastructure but make such infrastructure open and available for broadband service from only for-profit companies, or membership owned cooperative corporations as defined in [Idaho Code Title 30, Chapter 30](#) that provide broadband services to the services to the public.
- Be completed, operable, paid for, and submitted to the Idaho Department of Commerce for payment no later than December 15, 2020.
- Include broadband infrastructure and equipment costs meeting CARES Act criteria. Satellite service is not eligible for grant award.

**Question:** Does your project meet the CARES Act criteria?

Yes

No

**Question:** Project provides a minimum of 1,000Mbps download and 1,000Mbps upload symmetrical to public facility and access by citizens in municipal park or parking area where a minimum of 100 citizens could have access simultaneously at 25Mbps download/3Mbps upload.

Yes

No

**Question:** Does your project provide high speed service within the applicant's proposed facility for public safety, local governance, and or one (1) open access municipal location nearby for public access for emergencies.

Yes

No

**Question:** Applicants may own and maintain the infrastructure but must make such infrastructure open and available for broadband service from only for-profit companies, or membership owned cooperative corporations that provide broadband services to the public.

Yes

No

**Question:** I understand that the State of Idaho will provide no funding and have no obligations for projects that fail to be completed by December 15, 2020.

Yes

No

## Scored Criteria

---

**Question:** Provide an overview of the project including why the project is important and will address broadband needs of the community.

---

The City of McCall is a rural town of 2991 full time residents (2010 Census), but often experiences an influx of visitors that can swell the area population to 30,000+ in a weekend. This causes an overload of internet circuits (most cellular traffic uses terrestrial based transport for backhaul) making cellular and internet connectivity nearly unusable and slowing business transactions. In recognition that reliable and adequate internet access is a critical element of local economic vitality and to meet the current and future internet access needs of businesses and residents, two years ago the City of McCall launched an open access fiber utility project called RAPID with a goal to; increase access to internet, speed, expandability and reliability while establishing local control over essential critical infrastructure and lowering the monthly total cost of access for community members. Tele-Medicine, telework, online learning and more are all easily accessible with available bandwidth. The recent COVID-19 crisis has highlighted the need for better access to internet services, especially in underserved rural areas.

The City of McCall's RAPID project will build a backbone fiber to not only enhance the capability of public facilities like the McCall Police Department and serve local businesses and schools, but also provide the pathway for fiber to the home (FTTH) services with network speeds of 1G symmetrical at request. The City will operate the infrastructure but will not act as an ISP (internet service provider) or compete with private sector providers to deliver services across the network. Separating the infrastructure in the ground (fiber) from the connectivity offered by internet services providers (ISP's) is the next wave for internet access in small and rural communities such as McCall and Ammon, Idaho.

The City of McCall is shovel-ready to implement a key phase of RAPID implementation by December 15, 2020. This phase and the scope of the grant request will:

1. Install ~5.5 miles of backbone buried 3x1.25 conduit to be used for the deployment of RAPID to several critical areas including the city's largest industrial area and along a key north-south collector roadway serving the McCall Police Department, McCall School District, McCall Water Services Facility and businesses and neighborhoods along the way.
2. Install and connect ~12 miles of 96 fiber within installed conduit (~6.5 miles already placed in Summer 2019) to connect City facilities, schools, Public Library, McCall Transit Center, and businesses within McCall's downtown core.
3. Install five Wireless Access Portals (WAP) to provide free public use wireless service throughout McCall's downtown core, Civic Campus, Veteran's Park, Harshman Skate Park, and Heartland High School for members of the public to access distance learning, telework, telemedicine or other crucial needs.

**Question:** Is your project in an area where no local government facility has the internet speeds and bandwidth described 1000 Mbps download and 1000 Mbps upload symmetrical?

Yes

No

**Question:** Is your project in an area where no public park, municipal parking area, or similar access area for physical distancing has broadband speed to support 100 citizens at 25 Mbps download and 3 Mbps upload?

Yes

No

**Question:** Is the project in a town/city/municipality of less than 3,000 people?

Yes

No

**Question:** Does the project address a need as identified in a local or regional broadband plan? If yes, please describe.

This project furthers the McCall Comprehensive Plan (2018), McCall Capital Improvement Plan and RAPID Implementation Strategy. Specifically, the project fulfills Goal 5, Policy 5.2 of the McCall Area Comprehensive Plan by "expanding high speed internet and fiber optic access to public buildings, businesses, and residences throughout the McCall Area." Community information about RAPID, McCall's open access network, and implementaiton GIS map and story board showing prioritized system infrastructure construction is available for public review and comment on the City of McCall web site here:  
<https://mccall.maps.arcgis.com/apps/MapSeries/index.html?appid=0ffb912a1bec4ca0868c46d34d05>

**Question:** Will this project be in conjunction with another broadband grant for Households?

Yes

No

## Additional Requirements

---

Upload Supporting Documents for scope of project including maps, site plans, studies, or photographs, demonstrating the location of the project.

### Project Attachment Templates:

[CARES Act Certification](#)

[Grant Budget Template](#)

[Project Schedule Form](#)

[Letters of Support/Community match template](#)

**Question:** Estimated total project cost?

1111408.00

**Question:** List the underserved and unserved community facilities (schools, libraries, government offices, hospitals, public safety, etc.) within the proposed project area.

---

McCall Police Department, McCall Public Library, McCall Community Center, McCall Transit Center, McCall City Hall, McCall Water Service Facility, McCall Golf Course, Heartland High School, McCall Parks (Veteran's, Skate Park, Art Roberts), and downtown core public area and businesses.

**Question:** What is the maximum broadband speed that will be provided by the project?

1G symmetrical

**Question:** Are permits, permissions, rights of way and zoning requirements readily available in order for the project to be completed and paid for by December 15, 2020?

All work will occur within existing City-owned public rights of way so no additional permits or permissions are needed. The project is shovel-ready.

**Question:** If answered no in previous question, please describe. If the project does not require any of the above answer N/A.

n/a

**Question:** Describe how the project will be administered, audited for completion, and accounting performed.

Overall project management will be coordinated by Chris Curtin, City of McCall Information Systems Manager. Chris has successfully implemented previous phases of the RAPID project including procurement, construction management and systems inspection. Delta James, AICP, McCall Economic Development Planner, will provide grant administration. Delta is a certified CDBG Administrator and has extensive experience managing federal and state grant awards and reporting requirements. Accounting will be conducted by the City Treasurer and the project will be included in the City's annual audit process.

**Question:** Include any other information regarding why your project should be considered for funding.

A resilient and robust broadband infrastructure is essential not just for the economic health of a community, but also in meeting medical and educational needs. The ongoing pandemic proves that broadband is critical in times of crisis. Therefore, the City of McCall supports the use of CARES funds to improve, extend and add resiliency to Idaho's broadband infrastructure and is ready and able to complete a meaningful, coordinated and substantial project within the tight CARES Act expenditure timeframe, if given the opportunity.

**Question:** Upload Supporting Documents for scope of project including maps, site plans, studies, or photographs, demonstrating the location of the project.

[RAPID Fiber Loop - Install Phasing Map.pdf](#) (7/15/2020 3:29 PM)

**Question:** Upload the completed Grant Budget Template for the project that outlines the various costs.

[Budget - RAPID McCall - Public Facilities.pdf](#) (7/15/2020 10:47 AM)  
[Idaho-Cares-Act-Broadband-Grant-Budget - Public Facilities and Local Govt.pdf](#) (7/15/2020 10:32 AM)

**Question:** Complete the Project Schedule Form

[Broadband - project schedule - Public Safety and Local Gov.pdf](#) (7/15/2020 10:32 AM)

**Question:** Include any Letters of Support or Community Match from the community.

[WCMEDC McCall Broadband Letter of Support.pdf](#) (7/15/2020 10:35 AM)

[TREC Support of McCall Broadband Application 2020 07 13.pdf](#) (7/15/2020 10:35 AM)

[Chamber LTR of Support for City Broadband Grant.pdf](#) (7/15/2020 10:35 AM)

[Match Letter - Mayor Giles - signed.pdf](#) (7/15/2020 10:33 AM)

**Question:** Provide a copy of your Community Broadband Plan if applicable.

[RAPID Broadband Master Plan.pdf](#) (7/15/2020 10:43 AM)

**Question:** Provide a notarized CARES Act Certification that this project meets the CARES Act criteria.

[CARES Act Certification - signed.pdf](#) (7/15/2020 10:36 AM)

**Question:** Provide commitments from community anchor institutions or public safety networks which will utilize your service if the project is funded.

[McCall Police Dept - letter of support.pdf](#) (7/15/2020 2:31 PM)

[MDSD City of McCall Letter of Support.pdf](#) (7/15/2020 11:13 AM)

**Question:** Map of the project area demonstrating the insufficient availability of broadband service for a public facility symmetrical service and in the proposed public service area for 100 citizens using minimum service.

[Valley County - existing services level map.pdf](#) (7/15/2020 3:28 PM)

[Area Summary \\_ FCC existing service level.pdf](#) (7/15/2020 3:28 PM)

**Question:** Map of the project area which includes the public facility and public service area, the broadband speeds provided, the fiber, and the technology used to provide the services.

[RAPID Fiber Loop - Install Phasing Map.pdf](#) (7/15/2020 3:29 PM)

## Signature

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Your identity has been authenticated through the login process with a unique email address and password available only to you. You agree that by typing your name, title and date below, you are electronically signing the application. By electronically signing the application, you acknowledge and represent that you understand and accept all the terms and conditions stated within the application and declare that the information provided is true and that the documents you are submitting in support of your application are genuine and have not been altered in any way.

**Question:** Type your name.

Chris Curtin

**Question:** Type your title.

InfoSys Manager

**Question:** Type the submission date.

7-15-2020



## CARES Act funding – Budget estimates - Public Facilities and Local Govt

### Spring Mt Blvd Buried Conduit

Installation \$340,345

Materials \$40,000

Total \$400,345

### Deinhard Ln Buried Conduit

Installation \$214,063.00

Materials \$40,000

Reserve \$20,000

Total \$274,063.00

### Fiber Pulling and Splicing ~12 miles

Installation (pulling) \$100,000

Materials \$120,000

Splicing \$175,000

Reserve \$25,000

Total \$420,000

### WiFi in Public Area

Installation \$10,000

Materials \$5000

Reserve \$2000

Total \$17,000



City of McCall

www.mccall.id.us

216 East Park Street  
McCall, Idaho 83638

Phone 208-634-7142  
Fax 208-634-3038

**State of Idaho Broadband  
Grant CARES Act Certification**

STATE OF IDAHO  
COUNTY OF VALLEY

The undersigned, Robert S. Giles, representing City of McCall, 216 E. Park Street, McCall, Idaho 83638, hereby swear (affirm) that:

1. I am Mayor of City of McCall and thereby authorized to make these statements.
2. I have personal knowledge of the facts herein and can testify completely thereto.
3. The purpose of this statement is to assure the Idaho Department of Commerce that the project will meet the CARES Act Criteria as follows:
  - i. Facilitate distance learning, including technological improvements, in connection with school closings to enable compliance with COVID-19 precautions; and
  - ii. Improve telework capabilities for public employees to enable compliance with COVID-19 public health precautions; and
  - iii. Enhance communications capability of for public safety and enforcement by local emergency services related to COVID-19.

RAPID, the City of McCall's effort to establish underground fiber as critical infrastructure will, in partnership with private internet service providers, create an open access fiber network for public facilities, business and residential customers that will increase access to high speed internet so that employees, students, healthcare workers and public service officials can telework, distance learn, conduct business and facilitate public safety efforts during emergencies such as the COVID-19 pandemic.

Robert S. Giles  
Signature

7/15/2020  
Date

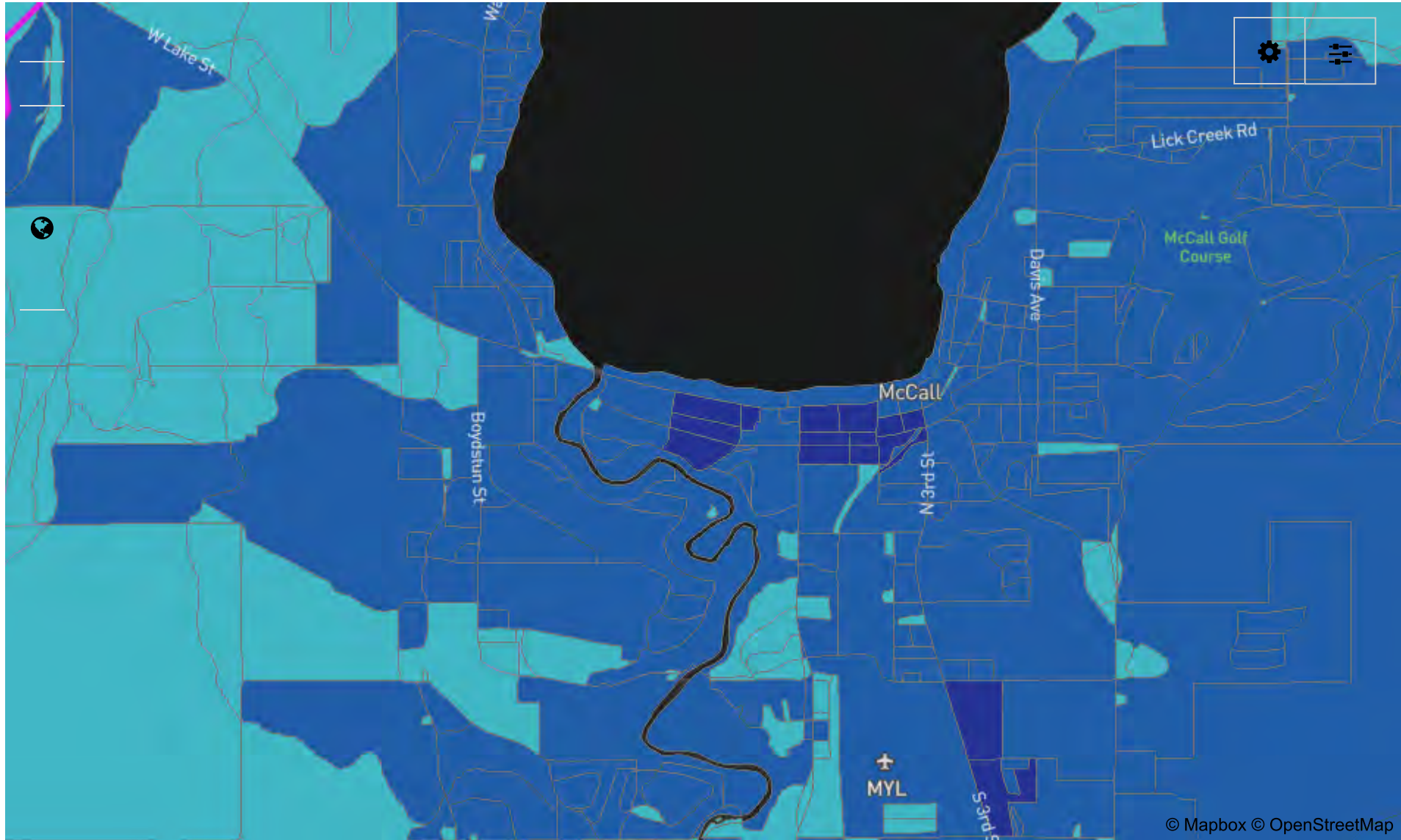
SUBSCRIBED AND SWORN before me on this 15 day of July, 2020



Notary Public for IDAHO  
Residing at Valley County  
Commission expires 1-10-2026

# Area Summary

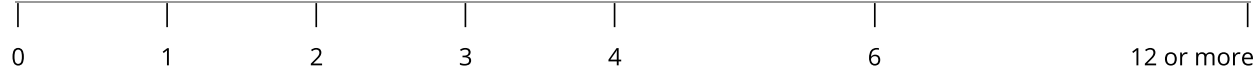
County ▾ Valley County, ID 🔍



## Valley County, ID



### Number of Fixed Residential Broadband Providers



### Broadband



#### Technology

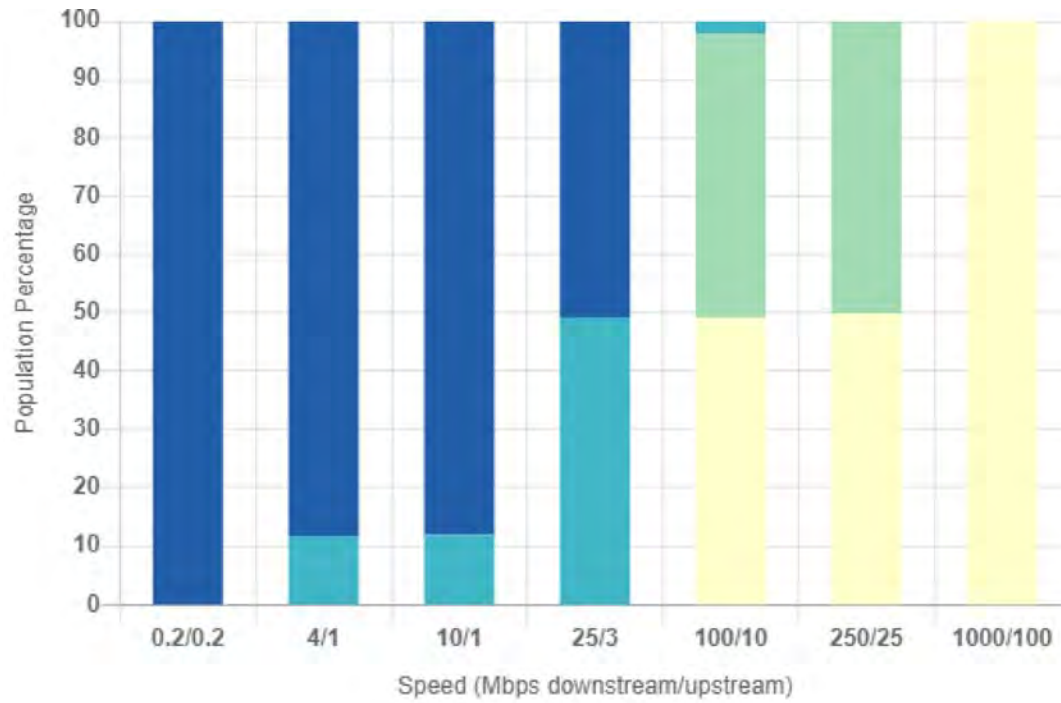
ADSL, Cable, Fiber, Fixed Wireless, Satellite, Other

#### Speed

≥ 25/3 Mbps

#### Date

June 2019 (latest public release)





### Idaho CARES Act Broadband Grant Budget

<b>Line Item</b>	<b>Grant Dollars</b>				<b>Total</b>
<b>Totals</b>					



**Teton Regional Economic Coalition**  
60 S. Main St., Driggs, Idaho 83422 brianm@trec-biz.org  
208.354.1008

Director Tom Kealey  
Idaho Dept. of Commerce

July 13, 2020

Re: McCall's CFAC Broadband Grant Application

Teton Valley has many of the same broadband issues outlined by Andrew Mentzer of the West Central Mountains Economic Development Council. While we were not able to come up with many potential projects here, we support those projects identified by McCall.

Grants should be available to do open-access, publicly owned networks, similar to that in Ammon, where possible, and fund projects where seed capital is currently unavailable. Projects should deliver minimum speeds of one gigabit or more to avoid rapid obsolescence. Committed information rates should be affordable to all citizens and businesses, on par with other areas of the nation.

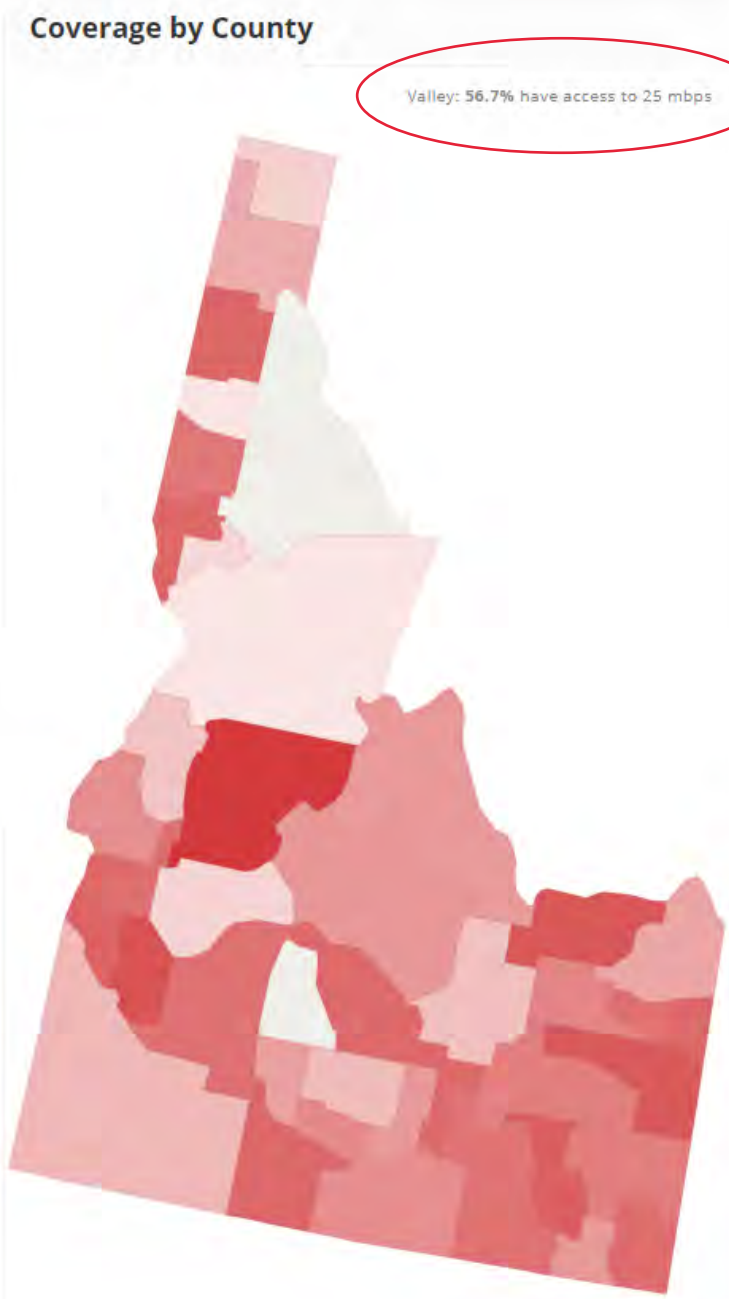
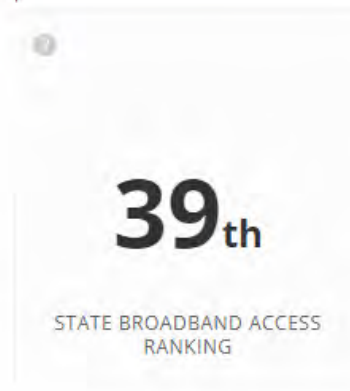
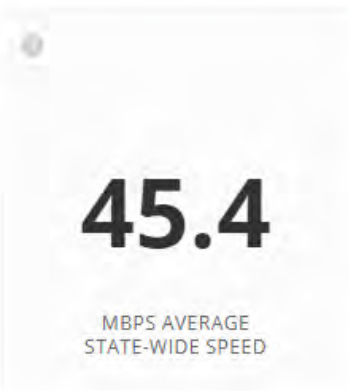
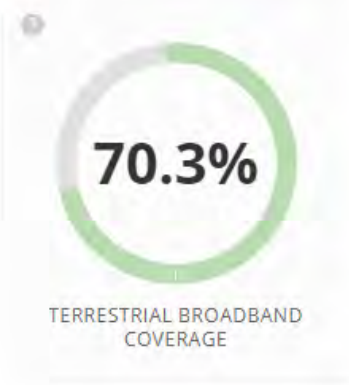
Our focus in Teton Valley will be to broaden reliable, high-bandwidth service at affordable rates. We will be doing some strategic planning to unify our efforts with our primary provider, Silver Star Communications, and to prepare for the likelihood of federal infrastructure grant support in the future. This is essential to our education system, our government/hospital IT infrastructure and our business development and recruiting efforts.

Thank you for your efforts here.

Sincerely,

*Brian McDermott*

Brian McDermott, Executive Director  
Teton Regional Economic Coalition







July 10, 2020

RE: CFAC Broadband Grant

Dear Director Kealy and Idaho Dept. of Commerce,

I write to you on behalf of the McCall Area Chamber of Commerce and Visitors Bureau (MACCVB) in full support of the City of McCall's grant funding request for Broadband, available through CFAC/Commerce as part of the CARES Act.

The MACCVB is the concerted voice of local businesses, promoting and protecting their interests as well as the interests of the community at large. We are committed to maintaining a healthy community with a sought-after quality of life featuring year-round recreational opportunities and a thriving economic climate.

With an influx of 10,000+ visitors each week in the summer and winter months, and bandwidth is consistently strained for residences and businesses alike. Moving to a FTTH configuration will allow McCall to add middle mile services relieving some of this pressure so we continue to thrive and operate to the best of our abilities. The following projects being applied for by the City of McCall are shovel ready with planned completion by the Dec. 15th requirement:

- Install conduit route along Deinhard Lane. Fiber pulling and splicing – installation and termination of 96 fiber in existing backbone routes. ~10 miles (Includes public Wi-Fi piece for 100 users -- City Hall campus coverage)
- Beta testing neighborhood – 15-20 homes to show proof of concept for RAPID fiber utility

The City of McCall will be offering matching funds in the amount of \$340K, which demonstrates their solid commitment alongside these grant funds. We ask for strong consideration to fund their application as another great step in the right direction to getting us "up to speed" where we need to be.

Thank you in advance for your consideration.

A handwritten signature in black ink that reads 'Tammy McCloud'. The signature is fluid and cursive, with the first name 'Tammy' being larger and more prominent than the last name 'McCloud'.

Sincerely,  
Tammy McCloud

*President of the McCall Area Chamber of Commerce & Visitors Bureau*

P.O. Box 350 | 605 N. 3rd Street | McCall, ID 83638

P: 208.634.7631

[info@mccallchamber.org](mailto:info@mccallchamber.org)

[www.mccallchamber.org](http://www.mccallchamber.org)



# City of McCall

[www.mccall.id.us](http://www.mccall.id.us)

216 East Park Street  
McCall, Idaho 83638

Phone 208-634-7142  
Fax 208-634-3038

July 15, 2020


Director Tom Kealey  
Idaho Dept. of Commerce  
RE: CFAC Broadband Grant Matching Funds

Dear Mr. Kealey,

This letter is intended to confirm the City of McCall's FY20 budgeted and approved financial commitment of \$340,435 as matching funds for the CARES Act Broadband Grant request for support to further implementation of the next phases necessary to implement RAPID, the City's effort to establish a network of broadband fiber infrastructure to, in partnership with private internet service providers, increase high speed internet access to McCall public facilities, businesses and residents.

The City of McCall appreciates the opportunity to request this funding support and share the program's goal to increase the resiliency of McCall businesses and residents by facilitating their ability to continue learning, working and accessing critical health and public services during challenges such as the COVID-19 pandemic.

Thank you for your consideration,


  
Robert S. Giles, Mayor

  
Date



**City of McCall**  
POLICE  
DEPARTMENT

**TO: CHRIS CURTIN, INFORMATION SYSTEMS MANAGER**

**FROM: JUSTIN WILLIAMS, CHIEF OF POLICE** 

**SUBJECT: CARES ACT GRANT FUNDING SUPPORT**

**DATE: DECEMBER 22, 2014**

---

The purpose of this memorandum is to provide McCall Police Department support for application in the CARES Act Grant Funding initiative.

Security for data transmission related to law enforcement purposes is ever important and departmental needs continue to grow. As such, point-to-point fiber lines increase security of sensitive data that travels third party networks. As a department, we utilize multiple programs from various vendors that require access to our information. These fiber lines will insure an upgrade to our current data security concerns.

McCall is a rural community and suffers from a lack of interest in network upgrades from “big business.” However, we are a tourist destination with a population that swells from 3,000 residents to over 25,000 visitors each day during the summer months. Our antiquated network simply can’t handle the influx and thus poses a risk to adequate data retrieval during an emergency situation.

Specifically, I was assigned as the Incident Commander for the City of McCall’s response to COVID19. Data retrieval and transmissions have been integral in our response and we have suffered lags, delays and interrupted service due to the population increase that we face each summer. These issues have hampered our response in service to our community. Any outreach to corporate suppliers has fallen on deaf ears as the monetary gain is simply not enough to garner interest.

Finally, the fiscal savings that could be achieved through point-to-point would allow for a redirection of resources to other areas of need. As departments continue to adjust in today’s environment, these savings will allow the McCall Police Department to continue to provide professional services to our community and visitors.

In summary, I am supportive of this grant application and am available for response should it be needed.



WEST CENTRAL MOUNTAINS  
ECONOMIC DEVELOPMENT COUNCIL  
Valley County · Cascade · Donnelly · McCall · Meadows Valley

July 9, 2020

Director Tom Kealey

Idaho Dept. of Commerce

RE: CFAC Broadband Grant

The West Central Mountains Economic Development Council fully supports the City of McCall's grant funding request for Broadband, available through CFAC/Commerce as part of the CARES Act. With an influx of 10,000+ visitors each week in the summer and winter months, available bandwidth is frequently strained for residential and enterprise systems alike. Moving to a FTTH configuration will allow McCall to add middle mile services relieving some of this pressure.

The following projects are shovel ready and capable or being completed before the Dec. 15<sup>th</sup> deadline. We believe they are high value projects that align with the community's long term needs for enhanced broadband capabilities.

1. Install conduit route along Deinhard. Fiber pulling and splicing – installation and termination of 96 fiber in existing backbone routes. ~10 miles (Includes public Wi-Fi piece for 100 users -- City Hall campus coverage)
2. Beta testing neighborhood – 15-20 homes to show proof of concept for RAPID fiber utility

The City of McCall will be offering matching funds in the amount of ~\$340K, demonstrating a strong commitment to having skin in the game alongside grant funds. We encourage you to consider funding their projects.

Thank you for your time and consideration,



Andrew Mentzer, on behalf of the West Central Mountains EDC board of directors  
WCMEDC.org  
208.703.0161



July 8, 2020

Please accept this strong letter of support for the City of McCall's "RAPID Project" and efforts to provide solutions to local broadband limitations in our rural community.

The McCall-Donnelly School District serves approximately 1,350 students, 1,200 of whom attend four schools located in McCall. There is a significant disparity between the level of access that families have to internet-based communication tools, depending upon where they live. In April of 2020, the school district moved to a platform of remote teaching and learning in response to the COVID-19 pandemic. Every issue we faced with broadband limitations was magnified. This resulted in significant issues with access to education for many families. We wholeheartedly support all efforts that level the playing field and provide equal access to families in our district. The efforts by the City of McCall are highly supportive of this objective.

The City of McCall has completed extensive work to establish "shovel ready" projects that will mitigate these issues. These projects will significantly improve access for families, and we believe create a more competitive pricing environment.


Proposed shovel ready projects include:

- Installation of a second conduit route along Deinhard Lane.
- Fiber pulling and splicing with installation and termination of 96 fiber in existing backbone routes (10 miles). This includes public Wi-Fi for 100 users on the City Hall campus.
- Beta Testing of 15-20 homes to show proof of concept for RAPID fiber utility.

Additionally, our infrastructure is impacted significantly as visitors recreate in McCall. It's estimated that we receive 10,000 visitors weekly to a city with fewer than 2,500 year-round residents. This brings available bandwidth almost to a halt.

Thank you for considering support for these projects. The City of McCall is prepared and ready to initiate projects and complete them by the December 15<sup>th</sup> deadline, and has committed \$340,000 in matching funds.

Respectfully,



Jim Fouly  
Superintendent  
McCall-Donnelly School District

**"Developing Lifelong Learners Today"**



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Respectfully,



Jim Fouly  
Superintendent  
McCall-Donnelly School District

**"Developing Lifelong Learners Today"**



*City of*  
**McCall**  
IDAHO

# Broadband Master Plan

Prepared for the McCall City Council

July 2020

– Prepared By –



[www.entpnt.com](http://www.entpnt.com)



## Contents

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- I. Executive Summary
- II. Strategy
- III. Infrastructure
- IV. Assessment of Existing Broadband Infrastructure
- V. Market Analysis
- VI. Community Engagement Plan
- VII. Business Model – Automated Open Access
- VIII. Network Design
- IX. Project Partners
- X. Cost Analysis & Phasing
- XI. Financing Considerations
- XII. Legal Considerations
- XIII. Risk Analysis

## Executive Summary

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*In addition to lowering costs and delivering significant improvements in network speeds, additional objectives for the network include positively impacting economic development, livability, public safety, education, healthcare, emergency communications, smart grid, efficient government services, universal access, environmental stewardship and smart city initiatives.*

The McCall, Idaho InfoSys Department has worked with EntryPoint Networks to develop this Broadband Master Plan to assist with a planning and decision-making process for deploying and operating broadband infrastructure for its municipal fiber deployment within the City of McCall. The information in this report will be used to assist in the planning and implementation of a network that seeks to lower broadband costs and increase network value for residents, commercial entities, and anchor institutions. Additionally, this report is designed to assist City leaders in understanding the operational implications, important risk factors, and a realistic cost framework for developing and operating city owned fiber optic infrastructure.

The Broadband Master Plan is a living document that will evolve as the City completes the backbone and pilot phase of the network and as it progresses from planning to implementation to operational activities.

In addition to lowering costs and delivering significant improvements in network speeds, additional objectives for the network include positively impacting economic development, livability, public safety, education, healthcare, emergency communications, smart grid capabilities, efficient government services, universal access, environmental stewardship and smart city applications.

City leaders will be able to use this document to lay the groundwork to solve near-term and long-term challenges. This report seeks to provide the data needed for City leaders to thoughtfully plan and implement a strategy that will benefit residents, businesses, and anchor institutions for years to come. The key focus of the report is on the following primary activities:

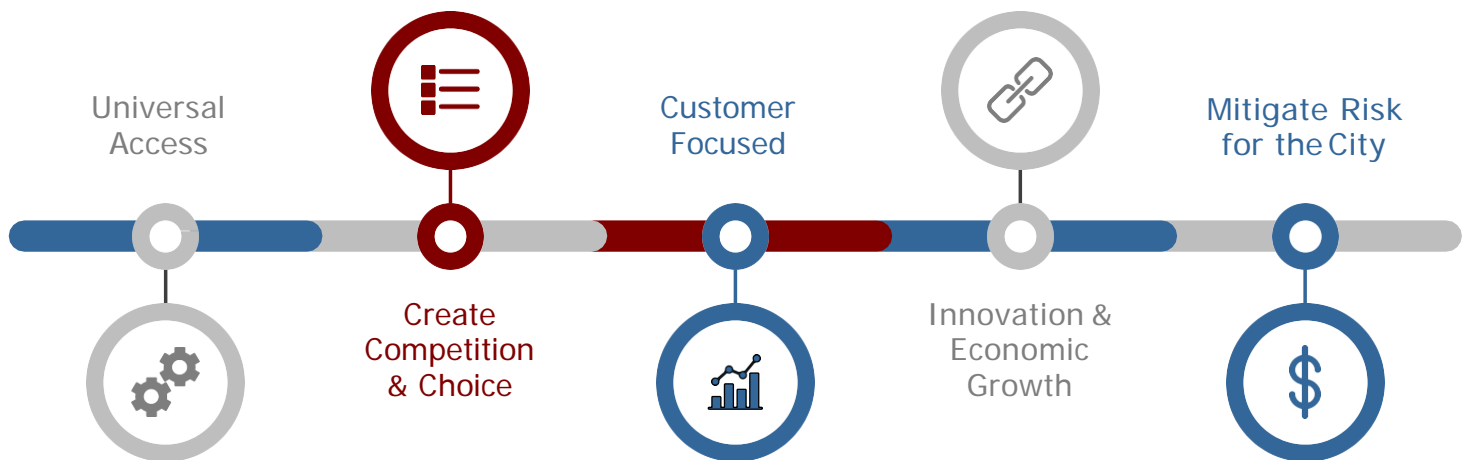
- 1) Network Design & Architecture
- 2) Construction
- 3) Network Operations
- 4) Customer Acquisition
- 5) Risk Management

## Strategy

Deploying a large-scale fiber optic network is a significant public works and information technology project.

**Key Strategic Ideas** guiding this Plan include the following:

1. **Universal Access** – The economy is now an information economy and the importance of digital infrastructure continues to grow in significance. The City of McCall has an interest in ensuring that the City has robust digital infrastructure and adopts policies and projects that make 1 Gig network access available and affordable throughout city limits.
2. **Foster Competition & Choice** – The City seeks to understand initiatives that will increase the number of service providers and types of services that are available to McCall residents.
3. **Focus on Customers** – City leaders seek to understand the needs and interests of network stakeholders and then align policies, initiatives, and projects with those interests.
4. **Foster Innovation & Economic Development** – City leaders are interested in leveraging the network to foster entrepreneurship and business development throughout McCall.
5. **Mitigate Risk for the City, Constituents, and Partners** – City leaders are particularly interested in implementing a business model which mitigates financial and operational risks to the City and its partners while at the same time helping the City achieve its other objectives.



## Infrastructure

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### Comparison of Available Media

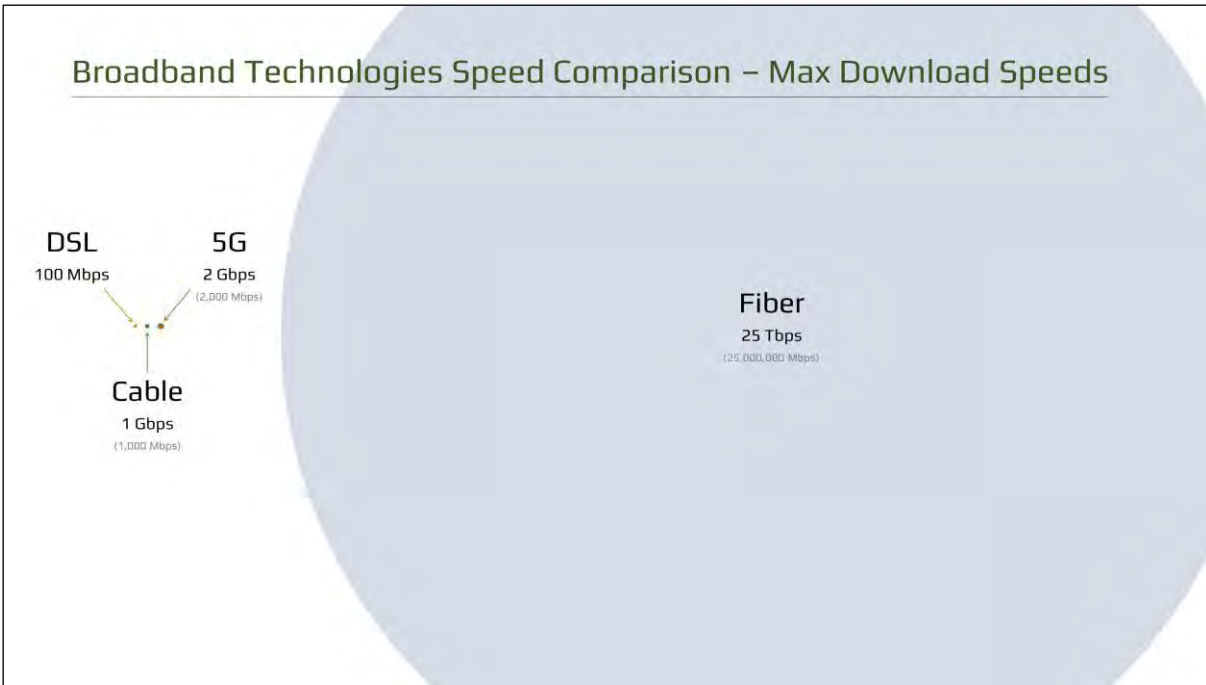
The primary media used for internet access today in the United States includes DSL, Cable, Wireless and Fiber Optic cable.

**DSL** stands for Digital Subscriber Line and it is one of the technologies used to provide Internet connectivity to homes and businesses. DSL uses existing telephone lines and a transceiver to bring a connection into a home or business and allows the household to use the Internet and make telephone calls at the same time. Frontier / Zply is the incumbent telephone company in McCall and uses DSL technology. DSL is asymmetrical (the download speed is much faster than the upload speed) and is capable of download speeds up to 100 Mbps (Mega Bits Per Second). However, most consumers accessing the internet via DSL access speeds between 5 – 25 Mbps.

**Coaxial Cable** uses copper cable designed with one physical channel that carries the signal surrounded by a layer of insulation and then another physical channel, both running along the same axis – hence the coaxial name. Coaxial cable is primarily used by cable TV companies to connect transmission facilities to customer homes and businesses to deliver cable T.V. and internet access. Charter/Spectrum is the incumbent cable company in the McCall area. Coaxial Cable is asymmetrical and is capable of download speeds up to 940 Mbps.

**Fiber Optic Cable** sends information down strands of glass known as optical fibers which are about the size of a human hair. These fiber optic strands are capable of transmitting 25 Tbps (Tera Bits Per Second) today and researchers have successfully demonstrated a transmission experiment over 1045 km (kilometers) with a data-rate of 159 Tbps (<https://phys.org/news/2018-04-fiber-transmission.html>). Fiber-optic cables carry information between two places using optical (light-based) technologies which convert electrical information from the computer into a series of light pulses. Fiber Optic Cable is capable of symmetrical speeds up to 25 Tbps.

Because the difference in capacity between fiber optics and alternative media is so significant, **fiber optics should be the foundational media for any new broadband infrastructure project when financially feasible.**



**Wireless Internet** access is made possible via radio waves communicated to a person's home computer, laptop, smartphone, or similar mobile device. Wireless Internet can be accessed directly through providers like AT&T Wireless, Verizon Wireless, T-Mobile or by a Wireless Internet Service provider (WISP).

**5G** is the 5th generation of technology used in cellular networks and refers to a standard for speed and connection. Because of the extensive marketing around the emergence of 5G, many people wonder whether 5G will replace fiber optic cables. In fact, 5G depends on fiber optic infrastructure. All wireless technologies work best the faster they get back to fiber optics. The graphic above is not to scale (fiber has much greater capacity than the illustration represents) but this illustrates the magnitude of the difference between the different media types. The emergence of 5G is very early but there is a potential revenue opportunity for 5G carriers to operate on City infrastructure and contribute to the ongoing cost of network operations. Cellular networks can be symmetrical or asymmetrical and are sometimes capable of download speeds up to 2,000 Mbps

**Wi-Fi** is common in homes and commercial buildings and is a way to deliver a network connection from a network hub over a wired connection to wireless devices via a wireless access point. Most people access the internet over a WiFi connection, but it is important to remember that wireless connectivity ultimately depends on a wired connection and wireless access works best the faster it gets back to a wire.

## Impact of Bandwidth on Applications

Length & Type of Media	Approx Size	10 Mbps	20 Mbps	100 Mbps	1,000 Mbps
4-Minute Song	4 MB	3 sec	1.5 sec	0.3 sec	0.03 sec
5-Minute Song	30 MB	26 sec	13 sec	2.5 sec	0.2 sec
9-Hour Audio Book	110 MB	1.5 min	46 sec	9.2 sec	0.9 sec
45-Minute TV Show	200 MB	3 min	1.5 min	16 sec	1.7 sec
45-Minute HDTV Show	600 MB	8.5 min	4 min	50 sec	5 sec
2-Hour Movie	1.0-1.5 GB	21.5 min	10.5 min	1.5 min	8 sec
2-Hour HD Movie	3.0-4.5 GB	60 min	32 min	4.5 min	25 sec
Large Archive File	10 GB	Too Long	Slow	Better	80 sec

### Upload vs Download Speeds

In addition to the fact that fiber optics offer exponentially greater bandwidth than DSL and cable, fiber optic cable also offers the ability to deliver symmetrical speeds. In an asymmetrical connection, the download speeds are much faster than upload speeds.

Upload speed is the amount of data a person can **send** in one second and download speed is the amount of data a person can **receive** in one second. Upload speeds can be especially important for businesses, including home-based businesses or people who work from home. Applications that depend on good upload speeds include sending large files, cloud applications like Google Docs and Dropbox, VoIP, FaceTime, Skype, hard drive backups and In-house web hosting.

### Assessment of Existing Broadband Infrastructure

A 2017 Deloitte Consulting analysis summarizes the current needs and realities for legacy broadband infrastructure in the United States this way:

*“The United States requires between \$130 and \$150 billion over the next 5–7 years to adequately support broadband competition, rural coverage and wireless densification.”*

Despite the demand and potential economic benefits of fiber deployment, the United States lacks the fiber density in access networks to make the bandwidth



# Broadband Master Plan

advancements necessary to improve the pace of innovation and economic growth.

Some wireline carriers are reluctant or unable to invest in fiber for the consumer segment despite the potential benefits. Expected wireline capital expenditures range between 14–18 percent of revenue. Wireline operating expenditures can be 80 percent of revenue. Fiber deployment in access networks is only justified today if a short payback period can be guaranteed, a new footprint is being built, repairs from rebuilding after a storm or other event justifies replacement, or in subsidized geographies where Universal Service funds can be used. The largest US wireline carriers spend, on average, five to six times more on operating expenses than capital expenditures. Excessive operating expenditures caused, in part, by legacy network technology restrict carriers’ ability to leverage digital technology advancements. Worse, as legacy networks continue to descale, the percentage of fixed costs overwhelms the cost structure leading to even greater margin pressure.”

Citation: <https://www2.deloitte.com/content/dam/Deloitte/us/Documents/technology-media-telecommunications/us-tmt-5GReady-the-need-for-deep-fiber-pov.pdf>

The Deloitte report is not specific to infrastructure in McCall, Idaho, but the conclusions from the Deloitte report are generally applicable. **Telco and Cable operators in U.S. cities often have fiber to an aggregation point and then legacy infrastructure from the aggregation point to the premise.**

The primary finding of the Deloitte report is that legacy infrastructure needs to be replaced with Fiber Optic cable in the near-term to meet bandwidth demands. There is no indication that incumbents intend to replace legacy infrastructure with Fiber Optic infrastructure in the near term and even if they did, this upgrade would solve the base infrastructure problem but it would not solve for the lack of competition or premium pricing for Gig speeds.

Legacy copper and coaxial infrastructure will need to be replaced with state-of-the-art infrastructure in order to meet the ever-growing demands for greater bandwidth and faster speeds. An important question is whether unique value can be derived by having the City and its residents own and control this infrastructure or whether private companies should continue to own and operate all communications infrastructure.

Ideal infrastructure includes more than just the fiber optic cables running throughout the City. Important infrastructure considerations include the electronics at both ends of the fiber as well as systems that manage and control the network. As the City deploys its infrastructure, the following are important considerations guiding its decision-making framework:

## Deloitte.

*“The United States requires between \$130 and \$150 billion over the next 5–7 years to adequately support broadband competition, rural coverage and*

*“The primary finding of the Deloitte report is that legacy infrastructure needs to be replaced with Fiber Optic cable in the near-term to meet bandwidth demands.”*

- **Capacity & Speed:** The demand for bandwidth and speed will continue to grow.
- **Emerging Services and Applications:** 5G, connected vehicles, edge computing, and virtual reality are all examples of emerging applications that have infrastructure dependencies. An important consideration is how flexible the business model and technology systems are to enable whatever may come.
- **Local Control:** An advantage of a network that is locally controlled is that the network can be much more responsive to local needs and may enable innovation and adaptation for emerging opportunities.
- **Local Resilience:** Many communities are not locally resilient against attacks on internet infrastructure. It is possible to design networks in a way that provides residents and businesses with a network that is locally resilient if, for some reason, middle mile connections are severed.
- **Privacy & Security:** Subscribers are becoming increasingly sensitive to security, privacy, and confidentiality controls.
- **Risk Analysis:** Consideration of the risks for all potential network stakeholders is an essential part of the planning process.

## Market Analysis

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In McCall, most residents and businesses subscribe to wireline internet services from the cable operator (Cable One/SparkLight) and telephone incumbent (formerly Frontier, now Ziplly). Additionally, residents in McCall have a wireless connectivity option available through Wilderness Wireless.

### SparkLight

SparkLight advertises the following residential ISP services in northern Idaho:

Speed (Mbps) [Down / Up]	Introductory Pricing [contract required]	Standard Pricing [not including taxes & fees]	Data Caps
100 / 10	\$39.00	\$55.00	300 GB
200 / 20	---	\$65.00	600 GB
300 / 30	---	\$80.00	900 BG
940 / 50	---	\$125.00	1,200 GB

Shared Network – Speeds are “Up To” not guaranteed.

Speeds are not Symmetrical

Additional Data - \$10.00 per 100 GB used

**Availability depends upon location – not available in all areas.**





## ZiPLY Fiber

ZiPLY recently bought out the Frontier Communications infrastructure in McCall and advertises the following package in McCall:



Speed (Mbps) [Down / Up]	Introductory Pricing [contract required]	Standard Pricing [not including taxes & fees]
25 / 2	\$41.00	\$59.00

Shared Network – Speeds are “Up To” not guaranteed.

Speeds are not Symmetrical

Soft Data Caps apply to all service plans

**Availability depends upon location – not available in all areas.**

## Wilderness Wireless

Wilderness Wireless offer the following residential services in McCall:



Speed (Mbps) [Down / Up]	Standard Pricing [not including taxes & fees]	Install Fee [not including taxes & fees]
8 / 2	\$59.00	\$129.00
10 / 3	\$69.00	\$129.00
12 / 4	\$79.00	\$129.00

Shared Network – Speeds are “Up To” not guaranteed.

Speeds are not Symmetrical

Soft Data Caps apply to all service plans

**Availability depends upon location – not available in all areas.**

## Community Engagement Plan

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*This Community Engagement Plan is an outline of the marketing, community education, and customer acquisition activities the City may follow to attract and sign up subscribers to the network.*

*Please Note: The Plan outlined below is offered as a possible supplement to the [McCall RAPID Marketing Plan](#) created by the City's Communications Department, attached as Exhibit A.*

### Goals & Objectives

The objective of the *McCall Community Engagement Plan* is to achieve a minimum of a 60% take-rate for homes and businesses within the City. Additionally, a scale of 1,800 subscribers is an important target for the project to be operationally sustainable over the long run. In the financial section later in the report, the financial models are built to a target of a 60% take-rate. The modeling can easily be adjusted to match actual take-rates.

### Evaluation & Education

Document the current state of broadband in McCall and determine the level of interest among residential users and business owners through surveys, neighborhood outreach, and door to door sales activities.

### Community Survey

A City specific website ([rapidmccall.com](http://rapidmccall.com)) has been deployed and includes a survey for residential and business owners and will be used to determine priorities for consumers and issues that are of particular interest to potential network customers. Responses will be used to develop an education and promotion program to increase understanding of the value proposition offered by the City.

### Publish Educational Information

A website has been created and will be used to outline the core message of broadband as a utility and will educate potential subscribers on the value proposition offered by the City. Customized videos will be used to educate online visitors on the following:

- a. Functionality of the community fiber network
- b. Options for services
- c. Frequently Asked Questions (FAQ's)
- d. Inquiry Form where community members can submit questions to the City

## Mapping Community Interest

The website will include an “I am interested” sign-up form with associated heat map where residential and business property owners can register as someone interested in City fiber.

## Marketing & Promotion

Press Releases will be used to promote the City fiber program, drive traffic to the fiber website with the goal of educating community members and generate interest and encourage community participation in the survey. The City will also use all available social media platforms (Facebook, Twitter, etc.) to promote the fiber network.

## Neighborhood Entrance and Yard Signs

As fiber construction begins in a neighborhood, McCall will post signs at neighborhood entrances announcing the construction to let residents know they can still sign-up to get connected while crews are in the neighborhood.

As homes are connected in the neighborhood, yard signs will be placed in the yards of subscribers indicating that the home is a new customer and will enjoy a fiber broadband connection.

The City will partner with an internet? Banner Ad company to deliver targeted Banner Ads to the neighborhoods that are next in line for sign-up and construction.

## Grassroots Engagement

### Open House Events

McCall will hold a series of Open Houses where residents and business owners can hear an educational presentation about the fiber project, become educated about the benefits of fiber and automated open access, and get questions answered.

Open Houses will be promoted using the City website, social media platforms, banner ads, flyers, and door hangers.

Open House events are intended to educate residents, promote the network, and identify Fiber Champions in the various neighborhoods (fiber zones). Fiber Champions are individuals that are committed to promoting the network within their neighborhood. Fiber Champions are also incentivized to have their neighborhood prioritized for construction as construction will often move from highest to lowest demand.

## Fiber Champions

Fiber Champions assist sales efforts within their designated neighborhood (fiber zone). They organize and lead Cottage Meetings where neighbors come together to discuss the McCall fiber program. McCall leaders and employees provide support to the Fiber Champions in their efforts. Fiber Champions drive conversations and contractual commitments of neighbors via the Door-to-Door Sales and Education campaign.

## Door-to-Door Sales Effort

Network sales agents (typically an independent group representing the network) contact residents and business operators within the planned network footprint to answer questions about the network and ascertain the potential subscribers' intentions regarding their participation in the network. [Yes (Opt-in) or No (Opt-out)].

This direct person-to-person contact gives everyone in the community an opportunity to ask questions, clarify their understanding and express their level of interest in participating.

To maximize the effectiveness of this process, prior to canvassing a neighborhood, door hangers are distributed to every home and business informing property owners that a representative will be stopping by to explain the value proposition, answer questions and get their Opt-in / Opt-out decision.

It is important that McCall support this effort through public notifications, press releases, mass emails, websites, social media sites, mobile applications, and other community outreach venues available to McCall. This may include outside professional marketing and/or PR firms.

The Door-to-Door Sales campaign can be funded via a network sign-up fee.

## Business Model – Automated Open Access

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Automated Open Access is a model where the network operator places electronics at both ends of the network and subscribers can dynamically select service providers in real-time. Software Defined Networking is used to automate various network management tasks.

In this model, multiple service providers can deliver services simultaneously and independently across a single wire. When a subscriber selects a new service provider, the provisioning is done using automation and therefore happens on-

demand. The automated provisioning creates a marketplace for services which includes ISP's and private networks for other services. The ability to switch service providers on demand increases choice and competition. This network model also includes the ability to provide local network resilience via local communications if connections over the middle mile are down.

## Network Design

The Automated Open Access model uses a Switched Ethernet Network architecture rather than a Passive Optical Network (PON) architecture.

### Switched Ethernet Network

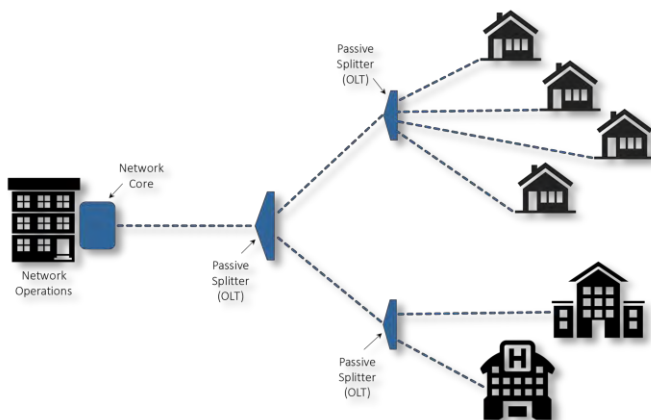
The Switched Ethernet architecture provides a dedicated connection for each customer rather than a shared connection and the customer experience is significantly better than in a shared architecture. This is due to the fact that the throughput of switch-based architecture is superior to a bus-based architecture during times of network congestion.

### Passive Optical Network (PON)

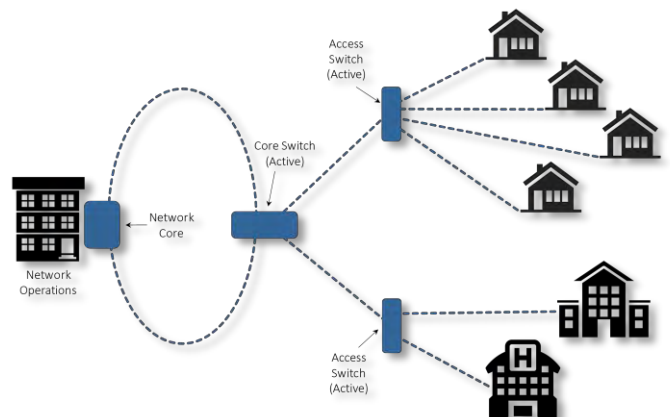
Passive Optical Networks (PON) and Coaxial (Cable) networks follow a Bus architecture.

A Bus architecture is a shared architecture. A splitter is placed in the field and a connection is often shared between 32 or 64 premises. The Bus Architecture leads to more packet collisions on the network which can result in high amounts of packet loss during congestion. Additionally, it is more difficult to isolate and troubleshoot faults in the network with a bus topology.

Passive Optical Network (PON) Design



Switched Ethernet Network Design



Proponents of PON Architecture will argue that PON is less expensive than an ethernet design. That was true historically. The illustration below shows that the variable costs of a switched ethernet deployment is now equal to PON. This change in pricing differences was driven by the fact that all Data Center deployments use Switched Ethernet architectures and the enormous growth of Data Centers over the past 20 years has driven down the cost of Ethernet electronics.

### PON - Network Access Equipment

Description	Unit Cost	Qty	Extended Cost
Install Package	\$696.50	1	\$696.50
OLT	\$4,196.50	2	\$8,393.00
10GE SFP+	\$837.90	2	\$1,675.80
2x 1GE BIDI CSFP	\$157.50	24	\$3,780.00
Access Line-up			\$14,545.30
Number of Subscribers Served			96
Average Cost per subscriber			\$151.51

### Ethernet - Network Access Equipment

Description	Unit Cost	Qty	Extended Cost
Switch	\$1,700.00	2	\$3,400.00
SFP	\$12.00	96	\$1,152.00
Access Line-up			\$4,552.00
Number of Subscribers Served			96
Average Cost per subscriber			\$47.42

### PON - Premise Equipment

Description	Unit Cost	Qty	Extended Cost
Indoor ONT	\$225.15	1	\$225.15
Power supply for 700GE ONT	\$12.00	1	\$12.00
Premise Line-up			\$237.15
Number of Subscribers Served			1
Average Cost per subscriber			\$237.15

### Ethernet - Premise Equipment

Description	Unit Cost	Qty	Extended Cost
White Box VBG	\$330.00	1	\$330.00
1000Base 1310nm-Tx/1550nm RX 10km	\$9.00	1	\$9.00
Premise Line-up			\$339.00
Number of Subscribers Served			1
Average Cost per subscriber			\$339.00

### Per Premise PON Equipment Costs

Total cost per Subscriber			<b>\$388.66</b>
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### Per Premise Ethernet Equipment Costs

Total cost per Subscriber			<b>\$386.42</b>
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## Project Partners

### Middle Mile

“Middle-mile” is an industry term that describes the network infrastructure that connects local networks to service providers at an Internet Exchange Point. The “last mile” is the local part of a communication network which connects a service provider to a customer. Current Middle Mile options include SparkLight (10 Gig), Syringa Networks (10 Gig) and Ziplly (1 Gig), the company that acquired the Frontier assets.

Approximately 2,500 customers can be served by a 10 Gbps circuit. Peak usage is an important data point for monitoring and is used to inform capacity planning. As the customer base in McCall grows, capacity will need to be adjusted. The cost of the middle mile connection should be allocated on a per subscriber basis

## Internet Service Providers (ISP) Partners

An Internet Service Provider gives subscribers access to the internet. Because the City of McCall network will be organized as an Open Access Network, it will have multiple ISP's offering services to subscribers.

The Internet Service Providers (ISP) listed below have expressed a verbal interest in being service providers to McCall subscribers. The participation of these ISP's will be formalized through an MOU process.

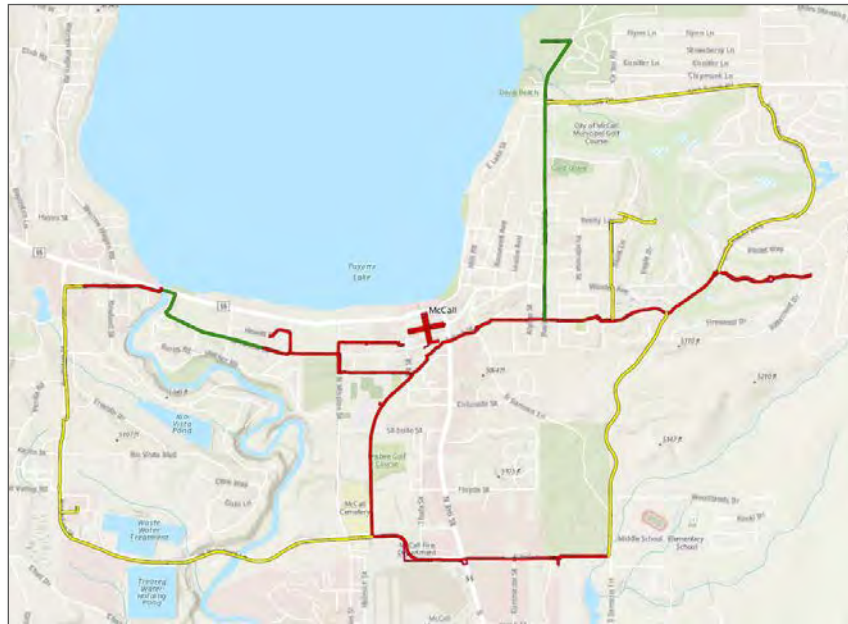
### Internet Service Providers –

- Wilderness Wireless – <https://ww2.wildwisp.com/index.html>
- Fybercom – <https://www.fybercom.net/>
- QwikNet – <http://qwk.net/>
- Sumo Fiber – <https://sumofiber.com/>

## Cost Analysis & Phasing

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### Backbone Build-Out | 2019 - 2022



**Backbone Phase 1 (2019) - Red (Currently Installed)**

**Backbone Phase 2 (2020) – Yellow**

Contractor: Idaho Site Prep

**Spring Mountain Blvd Route**

Construction Labor: \$340,435.00  
 Materials: \$46,000  
 Distance: 18,000 linear feet

**Deinhard Route (Bid – 2020 Additional Route)**

Construction Labor: \$214,063.00  
 Materials: \$30,000  
 Distance: 11,000 linear feet

**Backbone Phase 3 (2021/2022) Green**

Projected Construction Labor: \$420,000  
 Materials: \$60,000 (est)

**Residential Pilot (2020) – 25 Homes**

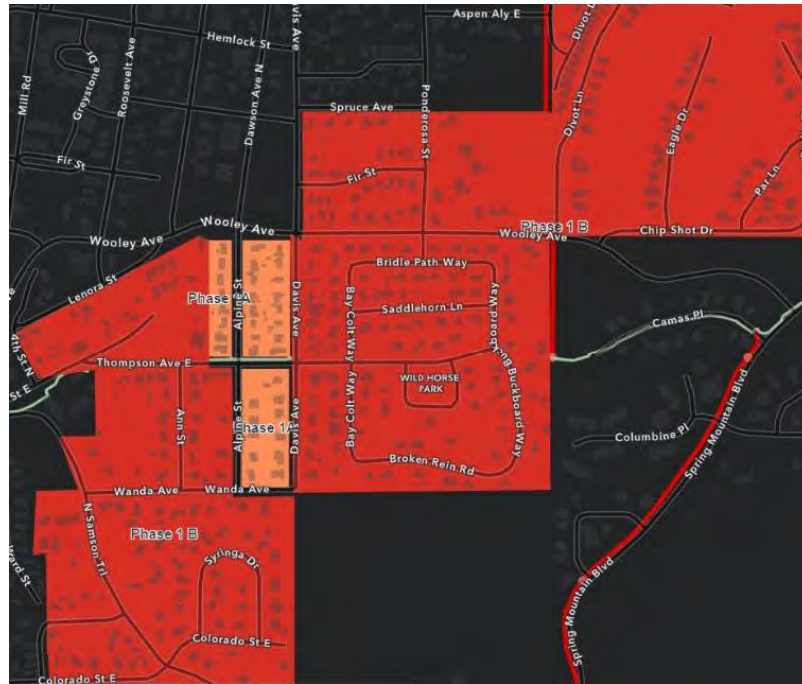
A residential pilot is planned for 2020 that will include between 20 – 30 homes on Alpine Street and Davis Avenue. The residential pilot will allow the McCall leadership to test financial models and customer acquisition strategies and will also provide a demonstration of the system the city is deploying.



**Local Improvement District #1 (2021) – 300 Homes**

Pending a successful residential pilot project in 2020, the Broadband Committee will seek approval for the first Broadband Local Improvement District in 2021 which will include approximately 300 homes.





## High Level Network Design

A high-level network design was done for the residential pilot neighborhood in order to build a cost model for that project. The Biarri Networks Fiber Optic Network Design Tool was used to create the design and calculate materials costs for these designs. The main cost categories for deploying and operating broadband networks are separated to optimize the costs in each of the following categories -

- Infrastructure Capital Costs (Financed over 20-25 years)
- Network Maintenance & Operations
- Services

## Infrastructure Capital Costs

The cost modeling that follows assumes the City has established its fiber optic backbone.

## Monthly Infrastructure Cost

The first illustration of Infrastructure Capital Costs per premise assumes a 60% take-rate and a project that is 100% underground. The data in the line items in this model come from a combination of the Biarri Network Design tool, actual bids for materials, and network buildout experience.



# Broadband Master Plan

Take-rate is a variable that is critical to project success because the operational sustainability of a project depends on crossing a certain take-rate threshold and take-rate has a meaningful impact on the cost per premise.

## Monthly Infrastructure Cost Modeled From 25 Premises

The second illustration of Infrastructure Capital Costs per premise assumes a 60% take-rate and a project that is 100% underground. We can adjust these variables on a neighborhood by neighborhood basis as needed.

Costs at 60% Take Rate			
100% Buried			
Description	Common	Drop	Total
Labor - Hours	20.83	5.00	25.83
Labor - Dollars	\$1,250.00	\$300.00	\$1,550.00
Equipment	\$370.72	\$57.25	\$427.97
Materials	\$483.62	\$158.71	\$642.33
Supplies	\$93.27	\$5.63	\$98.90
Restoration	\$48.10	\$1.76	\$49.86
Hut/Cabinet	\$108.07	\$5.90	\$113.97
Feeder Fiber	\$36.02	\$0.99	\$37.01
Engineering	\$31.10	\$1.03	\$38.13
Professional Services	\$148.42	\$15.16	\$163.58
Electronics	\$166.67	\$350.00	\$516.67
Subscriber Acquisition	\$0.00	\$0.00	\$0.00
<b>Total</b>	<b>\$2,741.97</b>	<b>\$896.43</b>	<b>\$3,638.40</b>
<b>Monthly Infrastructure Fee</b>		<b>\$21.19</b>	

## Why Take-Rate is Important

The following table illustrates the impact of take-rate on total cost per premise with a rate of 60% as neutral on impact.

Take-Rate	Cost/Sub	Subscribers	Difference	vs. 60% Take-Rate
5.00%	\$33,800.03	202	-	(\$30,161.63)
10.00%	\$17,348.23	403	\$16,451.80	(\$13,709.83)
15.00%	\$11,864.30	605	\$5,483.93	(\$8,225.90)
20.00%	\$9,122.33	807	\$2,741.97	(\$5,483.93)
25.00%	\$7,477.15	1,009	\$1,645.18	(\$3,838.75)
30.00%	\$6,380.36	1,210	\$1,096.79	(\$2,741.97)
35.00%	\$5,596.94	1,412	\$783.42	(\$1,958.55)
40.00%	\$5,009.38	1,614	\$587.56	(\$1,370.98)
45.00%	\$4,552.39	1,815	\$456.99	(\$913.99)
50.00%	\$4,186.79	2,017	\$365.60	(\$548.39)
55.00%	\$3,887.67	2,219	\$299.12	(\$249.27)
60.00%	\$3,638.40	2,420	\$249.27	\$0.00
65.00%	\$3,427.48	2,622	\$210.92	\$210.92
70.00%	\$3,246.69	2,824	\$180.79	\$391.71
75.00%	\$3,090.00	3,026	\$156.68	\$548.39
80.00%	\$2,952.91	3,227	\$137.10	\$685.49
85.00%	\$2,831.94	3,429	\$120.97	\$806.46
90.00%	\$2,724.41	3,631	\$107.53	\$913.99
95.00%	\$2,628.20	3,832	\$96.21	\$1,010.20
100.00%	\$2,541.61	4,034	\$86.59	\$1,096.79



# Broadband Master Plan

## Full City-Wide Deployment Infrastructure Network Operations

The following Table summarizes the anticipated cost structure for Network Maintenance & Operations. This schedule produces a monthly M&O fee for the Broadband Utility at \$22.66 per month. The City would need to subsidize network operations until enough scale is established to achieve sustainability.

Residential M&O	Subscriber	Monthly	Annual	Percentage
Costs/Accruals/Reserves	\$22.66	\$584,592	\$7,015,103	100.00%
Power	\$1.41	\$36,288	\$435,452	6.21%
Co-Lo Fees	\$0.35	\$9,072	\$108,863	1.55%
Labor	\$8.00	\$206,400	\$2,476,800	35.31%
Office	\$0.58	\$15,016	\$180,187	2.57%
Vehicles	\$0.73	\$18,770	\$225,234	3.21%
Tools	\$0.21	\$5,443	\$65,318	0.93%
Equipment	\$1.18	\$30,344	\$364,128	5.19%
Supplies	\$0.12	\$3,128	\$37,539	0.54%
Dig-line	\$0.19	\$5,005	\$60,062	0.86%
Maintenance	\$1.18	\$30,344	\$364,128	5.19%
Call Center	\$0.36	\$9,385	\$112,617	1.61%
Network Operations Center (Monitoring)	\$0.36	\$9,385	\$112,617	1.61%
Equipment Refresh costs (Reserves)	\$2.00	\$51,600	\$619,200	8.83%
Licenses Fees (SaaS, Etc.)	\$2.00	\$51,600	\$619,200	8.83%
Rentals	\$0.50	\$12,900	\$154,800	2.21%
Business Insurance	\$0.00	\$0.00	\$0.00	0.00%
Bad Debt	\$0.46	\$11,887	\$142,648	2.03%
Equipment Replacement	\$0.02	\$626	\$7,508	0.11%
Taxes and Fees (Property)	\$0.00	\$0	\$0	0.00%
Middle Mile	\$2.00	\$51,600	\$619,200	8.83%
Reserves	\$1.00	\$25,800	\$309,600	4.41%
Total	\$22.66	\$584,592	\$7,015,103	100.00%

## Network Management & Operations Cost Structure

The numbers and categories in this model are derived from many years of experience with actual costs for Broadband projects. Labor costs are modeled to reflect Idaho wages.

## Staffing Modeling for Internal Network Operations

The following Table models the cost structure for the positions needed for the City of McCall to operate the network with City employees. The model provides sufficient resources for network management and operations. The model does not include resources for construction. The cost structure improves with economies of scale (subscriber growth). The City will need to subsidize this department through the first 6-7 years of operations and that investment will be paid back by operational surpluses as subscribers grow beyond 1,800. The work that will be done by the Network Operations Department includes network



# Broadband Master Plan

July 2020

monitoring, network management, outside plant repairs, & new customer installations. Losses in Years 1-6 is being mitigated by leveraging existing City resources.

Position	Fully Compensated Hourly Rate	Fully Compensated Monthly Cost	Fully Compensated Annual Cost
Manager	\$48	\$8,251	\$99,008
Network Admin	\$39	\$6,795	\$81,536
I.T. Technician	\$28	\$4,853	\$58,240
Outside Manager	\$28	\$4,853	\$58,240
Outside Plant Tech	\$22	\$3,883	\$46,592

## Subscriptions & Staffing Projections

Subscribers	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
New Subscribers	20	300	300	300	300	300	300	300	300	0
# of Subscriber at year end	20	320	620	920	1,220	1,520	1,820	2,120	2,420	2,420
Labor Allocation	\$8.00	\$8.00	\$8.00	\$8.00	\$8.00	\$8.00	\$8.00	\$8.00	\$8.00	\$8.00
Cash Flow from Labor	\$960	\$16,320	\$45,120	\$73,920	\$102,720	\$131,520	\$160,320	\$189,120	\$217,920	\$232,320

Staffing Projections	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
Manager	0	0	0	0	0	0	0	0	0.5	0.5
Network Admin	0	0	0	0.5	1	1	1	1	0.75	1
IT Technician	0	0	0.5	0	0	0.5	0.5	1	1	1
Outside Plant Manager	0	0	0	0	0	0	0	0	0	0
Outside Plant Laborer	0	0.25	0.5	0.5	0.5	0.5	1	1	1	1

Position	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
Manager	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$49,504	\$49,504
Network Admin	\$0	\$0	\$0	\$40,768	\$81,536	\$81,536	\$81,536	\$81,536	\$61,152	\$81,536
IT Technician	\$0	\$0	\$29,120	\$0	\$0	\$29,120	\$29,120	\$58,240	\$58,240	\$58,240
Outside Plant Manager	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Outside Plant Laborer	\$0	\$11,648	\$23,296	\$23,296	\$23,296	\$23,296	\$46,592	\$46,592	\$46,592	\$46,592
<b>Total</b>	<b>\$0</b>	<b>\$11,648</b>	<b>\$52,416</b>	<b>\$64,064</b>	<b>\$104,832</b>	<b>\$133,952</b>	<b>\$157,248</b>	<b>\$186,368</b>	<b>\$215,488</b>	<b>\$235,872</b>
Net	\$960	\$4,672	-\$7,296	\$9,856	-\$2,112	-\$2,432	\$3,072	\$2,752	\$2,432	-\$3,552



# Broadband Master Plan

## Project Pro-Forma

Financial Pro-Forma of Full Project Costs – 10 Year Build – Ethernet Architecture

Projected Phase 2	\$630,498.00
Projected Phase 3	\$420,000.00
Projected Cost Per Premise (Common and Drop)*	\$3,638.40
Estimated Subscribers	2,420
Total Cost (Common & Drop) (Includes Professional Services)	\$7,537,943.70
Total Projected Project Costs	\$7,537,943.70

*\* Assumes 100% underground, 60% take rate & short-term interest rate of 8% and long-term bond rate of 4% for 25 years.*

## Projected Subscription Costs

Projected Residential Services Monthly Costs	<u>100% Underground</u>
Infrastructure	\$21.19
Maintenance and Operations	\$22.66
ISP Service ( <i>Dedicated 1 GB Symmetrical</i> )	<u>\$9.99</u>
Monthly Total	\$53.84
Projected Business Services Monthly Costs	<u>100% Underground</u>
Infrastructure	\$21.19
Maintenance and Operations	\$39.95
ISP Service ( <i>Dedicated 1 GB Symmetrical</i> )	<u>\$49.99</u>
Monthly Total	\$111.13

*The Residential \$9.99 monthly ISP fee listed above is based upon current pricing from the list of ISPs interested in providing services in McCall.*

*The differences between Residential and Business pricing are based on the need for many businesses to have 24x7 customer support.*



# Broadband Master Plan

July 2020

## Projected Capital Expenditures & Funding

Timeline	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10+	Total
<b>Capital Costs</b>											
Phase 1	\$630,498	\$0									\$630,498
Phase 2	\$0	\$420,000									\$420,000
Subscriber Drops	\$17,929	\$268,929	\$268,929	\$268,929	\$268,929	\$268,929	\$268,929	\$268,929	\$268,929	\$0	\$2,169,361
Subscriber Common	\$54,839	\$822,590	\$822,590	\$822,590	\$822,590	\$822,590	\$822,590	\$822,590	\$822,590	\$0	\$6,635,559
Interest Reserve (Drops)	\$2,911	\$49,482	\$43,661	\$43,661	\$43,661	\$43,661	\$43,661	\$43,661	\$43,661	\$0	\$358,018
Interest Reserve (Backbone)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>Total</b>	<b>\$706,177</b>	<b>\$1,561,001</b>	<b>\$1,135,180</b>	<b>\$1,135,180</b>	<b>\$1,135,180</b>	<b>\$1,135,180</b>	<b>\$1,135,180</b>	<b>\$1,135,180</b>	<b>\$1,135,180</b>	<b>\$1,135,180</b>	<b>\$10,213,436</b>
<b>Short Term Financing</b>											
New Backbone	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Retired											
<b>Total</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>
New Build	\$72,768	\$1,091,519	\$1,091,519	\$1,091,519	\$1,091,519	\$1,091,519	\$1,091,519	\$1,091,519	\$1,091,519	\$0	\$8,804,920
<b>Total</b>	<b>\$72,768</b>	<b>\$1,164,287</b>	<b>\$1,091,519</b>	<b>\$1,091,519</b>	<b>\$1,091,519</b>	<b>\$1,091,519</b>	<b>\$1,091,519</b>	<b>\$1,091,519</b>	<b>\$1,091,519</b>	<b>\$0</b>	<b>\$8,804,920</b>
<b>Long Term Funding</b>											
New Backbone			\$0	\$0							\$0
New Build			\$1,216,680	\$1,135,180	\$1,135,180	\$1,135,180	\$1,135,180	\$1,135,180	\$1,135,180	\$1,091,519	\$8,804,920
<b>Total Backbone</b>			<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>					
<b>Total Build</b>			<b>\$1,216,680</b>	<b>\$2,351,860</b>	<b>\$3,487,039</b>	<b>\$4,622,219</b>	<b>\$5,757,399</b>	<b>\$6,892,579</b>	<b>\$8,027,758</b>	<b>\$9,119,277</b>	



# Broadband Master Plan

July 2020

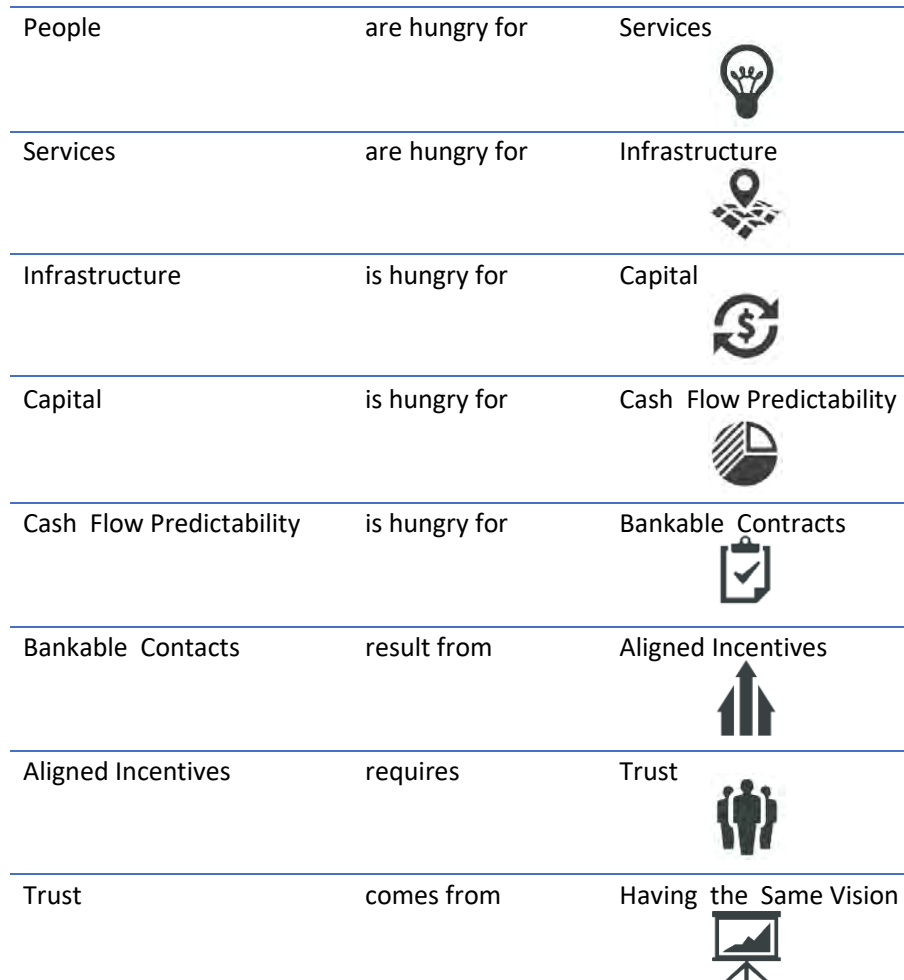
## Projected Income & Cash Flow

Timeline	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10 +
<b>Subscribers</b>										
New Subscribers	20	300	300	300	300	300	300	300	300	-
# of Subscriber at year end	20	320	620	920	1,220	1,520	1,820	2,120	2,420	2,420
<b>Income Statement (Revenue)</b>										
Infrastructure Fees	\$2,543.40	\$43,237.75	\$119,539.66	\$195,841.57	\$272,143.48	\$348,445.39	\$424,747.30	\$501,049.21	\$577,351.13	\$615,502.08
Maintenance and Operations	<u>\$2,719.03</u>	<u>\$46,223.54</u>	<u>\$127,794.50</u>	<u>\$209,365.46</u>	<u>\$290,936.42</u>	<u>\$372,507.38</u>	<u>\$454,078.34</u>	<u>\$535,649.30</u>	<u>\$617,220.26</u>	<u>\$658,005.74</u>
Total Revenue	\$5,262.43	\$89,461.29	\$247,334.16	\$405,207.04	\$563,079.91	\$720,952.78	\$878,825.65	\$1,036,698.52	\$1,194,571.39	\$1,273,507.82
<b>Operating Costs (Expenses)</b>										
Maintenance and Operations	-\$2,359.03	-\$40,103.54	-\$110,874.50	-\$181,645.46	-\$252,416.42	-\$323,187.38	-\$393,958.34	-\$464,729.30	-\$535,500.26	-\$570,885.74
M&O Labor Difference	\$960.00	\$4,672.00	-\$7,296.00	\$9,856.00	-\$2,112.00	-\$2,432.00	\$3,072.00	\$2,752.00	\$2,432.00	-\$235,872.00
Middle Mile Difference (assuming \$2,500/mo.)	-\$14,760.00	-\$10,920.00	-\$3,720.00	\$3,480.00	\$10,680.00	\$17,880.00	\$25,080.00	\$32,280.00	\$39,480.00	\$43,080.00
Equipment Refresh/Replacement	\$0.00	\$0.00	\$0.00	-\$3,384.00	-\$5,544.00	-\$7,704.00	-\$9,864.00	-\$12,024.00	-\$14,184.00	-\$16,344.00
Interest Reserve	-\$2,910.72	-\$49,482.19	-\$43,660.76	-\$43,660.76	-\$43,660.76	-\$43,660.76	-\$43,660.76	-\$43,660.76	-\$43,660.76	\$0.00
Debt Service Reserve	-\$2,543.40	-\$37,009.97	-\$32,655.86	-\$32,655.86	-\$32,655.86	-\$32,655.86	-\$32,655.86	-\$32,655.86	-\$32,655.86	\$0.00
M&O Reserve	-\$360.00	-\$6,120.00	-\$16,920.00	-\$27,720.00	-\$38,520.00	-\$49,320.00	-\$60,120.00	-\$70,920.00	-\$81,720.00	-\$87,120.00
Total Expenses	-\$21,973.15	-\$138,963.71	-\$215,127.12	-\$275,730.08	-\$364,229.04	-\$441,080.00	-\$512,106.96	-\$588,957.92	-\$665,808.88	-\$867,141.74
Net (Revenue vs Expenses)	-\$16,710.72	-\$49,502.42	\$32,207.04	\$129,476.95	\$198,850.86	\$279,872.77	\$366,718.68	\$447,740.59	\$528,762.51	\$406,366.08
<b>Loan Payment</b>										
Backbone Build Out			\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Total Loan Payments			<u>\$81,780.00</u>	<u>\$158,081.91</u>	<u>\$234,383.82</u>	<u>\$310,685.73</u>	<u>\$386,987.64</u>	<u>\$463,289.55</u>	<u>\$539,591.46</u>	<u>\$612,958.68</u>
Net	-\$16,710.72	-\$49,502.42	-\$49,572.96	-\$28,604.96	-\$35,532.96	-\$30,812.96	-\$20,268.96	-\$15,548.96	-\$10,828.96	-\$206,592.60
<b>Cash Flow</b>										
Capital Expenditures	-\$703,265.93	\$1,511,519.00	\$1,091,519.00	\$1,091,519.00	\$1,091,519.00	\$1,091,519.00	\$1,091,519.00	\$1,091,519.00	\$1,091,519.00	\$0.00
Money Borrowed	\$0.00	\$1,164,286.93	\$1,143,911.91	\$1,135,179.76	\$1,135,179.76	\$1,135,179.76	\$1,135,179.76	\$1,135,179.76	\$1,135,179.76	\$0.00
Net	-\$703,265.93	-\$347,232.07	\$52,392.91	\$43,660.76	\$43,660.76	\$43,660.76	\$43,660.76	\$43,660.76	\$43,660.76	\$0.00
Revenue	\$5,262.43	\$89,461.29	\$247,334.16	\$405,207.04	\$563,079.91	\$720,952.78	\$878,825.65	\$1,036,698.52	\$1,194,571.39	\$1,273,507.82
Cash Expenses	-\$1,399.03	-\$35,431.54	-\$118,170.50	-\$171,789.46	-\$254,528.42	-\$325,619.38	-\$390,886.34	-\$461,977.30	-\$533,068.26	-\$806,757.74
Loan Payments			<u>-\$81,780.00</u>	<u>-\$158,081.91</u>	<u>-\$234,383.82</u>	<u>-\$310,685.73</u>	<u>-\$386,987.64</u>	<u>-\$463,289.55</u>	<u>-\$539,591.46</u>	<u>-\$612,958.68</u>
Net Cash	\$3,863.40	\$54,029.75	\$47,383.66	\$75,335.66	\$74,167.66	\$84,647.66	\$100,951.66	\$111,431.66	\$121,911.66	-\$146,208.60
Accrued Interest	-\$2,910.72	-\$49,482.19	-\$43,660.76	-\$43,660.76	-\$43,660.76	-\$43,660.76	-\$43,660.76	-\$43,660.76	-\$43,660.76	\$0.00
Unrestricted Cash	-\$705,216.65	-\$385,814.49	\$6,539.96	\$14,959.80	\$2,991.80	\$2,671.80	\$8,175.80	\$7,855.80	\$7,535.80	-\$233,328.60
<b>Reserve</b>										
Interest Reserve	\$2,910.72	\$49,482.19	\$43,660.76	\$43,660.76	\$43,660.76	\$43,660.76	\$43,660.76	\$43,660.76	\$43,660.76	\$0.00
Debt Service	\$2,543.40	\$37,009.97	\$32,655.86	\$32,655.86	\$32,655.86	\$32,655.86	\$32,655.86	\$32,655.86	\$32,655.86	\$0.00
Maintenance and Operations	\$360.00	\$6,120.00	\$16,920.00	\$27,720.00	\$38,520.00	\$49,320.00	\$60,120.00	\$70,920.00	\$81,720.00	\$87,120.00
Total Reserve	<u>\$5,814.11</u>	<u>\$92,612.17</u>	<u>\$93,236.62</u>	<u>\$104,036.62</u>	<u>\$114,836.62</u>	<u>\$125,636.62</u>	<u>\$136,436.62</u>	<u>\$147,236.62</u>	<u>\$158,036.62</u>	<u>\$87,120.00</u>
Total Cash	-\$699,402.54	-\$293,202.32	\$99,776.58	\$118,996.42	\$117,828.42	\$128,308.42	\$144,612.42	\$155,092.42	\$165,572.42	-\$146,208.60

## Financing Considerations

Because project feasibility is ultimately a function of getting people to sign up and remain loyal to the network, there needs to be a value proposition that mobilizes customers to subscribe. For that to happen, subscribers need a compelling solution and the network needs to create cash flow predictability and bankable contracts to attract financing for the project. NetEquity in San Francisco visualizes these dependencies in this way:

### NetEquity Stack



*Isfandiyar (Asfi) Shaheen developed the **NetEquity Stack** above. Mr. Shaheen is a Global Broadband Infrastructure Thought Leader based in San Francisco. He is working to provide fiber optic connectivity to unconnected countries around the world.*



## Legal Considerations

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The McCall City Attorney should prepare a separate analysis describing the City's legal authority to build, own, and operate broadband infrastructure and include legal and risk-related considerations for organizing a broadband utility.

## Risk Analysis

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# 9

*Potential Risk  
Factors →  
Likelihood  
Impact  
Mitigation*

The following is an analysis of the main risk factors facing the City of McCall as it pursues its fiber-to-the-premise deployment. Eight potential Risk Factors are analyzed:

1. Subscriber Churn Risk
2. Take-Rate Risk
3. Project Execution Risk
4. Equipment and Technology Risk
5. Community Engagement Risk
6. Cost Modeling Risk
7. Timeline Risk
8. Regulatory Risk
9. Middle Mile Risk

### Subscriber Churn

Subscriber Churn is the risk that customers sign up and then do not remain subscribers to the network.

**Likelihood:** Today customers are primarily driven by cost, speed, and customer service. Churn is possible and is a consequence of the customers pursuing an option to get better value from an alternative solution. The likelihood of churn is high if a new market solution simply replicates the incumbent model. The likelihood of churn goes down under a Business Model where 1) the customer is financially responsible for the drop to their property and 2) where the value proposition is strong enough to make the customer voluntarily committed to the network.

**Impact:** The impact of churn on the network is potentially catastrophic if it reaches a level where the capital and operational cost of the abandoned infrastructure cannot reasonably be shared by remaining subscribers.

**Mitigation:** Churn can be mitigated by implementing a business model that makes customers voluntarily committed to the network and by assigning financial responsibility to customers for their lateral connection.

## Take-Rate Risk

Take-rate risk is the risk that the City builds out the network and ends up with a take-rate that is lower than expected.

**Likelihood:** Take-rate risk is possible and is a function of the value proposition of the network and how well that value proposition gets communicated and managed before construction starts. High take-rates lead to lower network costs for subscribers. This creates a virtuous cycle where lower costs lead to higher take rates. The reverse is also true.

**Impact:** The worst-case scenario is one where lower take rates lead to higher costs and churn which create a death spiral that negatively compounds until the network is not sustainable.

**Mitigation:** Manage demand aggregation before construction begins and give consumers a value proposition that makes them voluntarily committed to the network infrastructure.

## Project Execution

Project Execution includes strategy, planning, project management and fulfillment of the project plan and operational execution.

**Likelihood:** Project execution failure is possible and is a function of the effectiveness of project planning, management, controls, and execution.

**Impact:** The severity of impact is in proportion to the effectiveness of project management and execution. A worst-case scenario is one where project execution affects the value proposition, which in turn affects take-rate and churn.

**Mitigation:** Hire or partner with skilled project managers and key strategic partners. Create alignment among key team members on the project plan and operational plan. Develop project controls that are monitored and reported to senior leadership monthly.

## Equipment & Technology Risk

Equipment & Technology Risk includes both software and hardware solutions and is the risk that equipment failure rates are higher than expected, major

software bugs are unresolved, operational reliability is lower than expected, and/or that the technology lifecycle leads to faster obsolescence than is expected. For a network, the size of McCall, an additional risk is scalability risk. Middle Mile risk covered in the Middle Mile pricing section.

**Likelihood:** Solutions with short deployment histories, unreliable references, unclear quality control and test procedures, weak professional teams, and poorly architected scalability abstractions present increased equipment and technology risk.

**Impact:** The impact of this risk category is moderate because it is possible to vet both software and hardware systems to assess this risk. The base technology of the network will be fiber optic cable and that has sufficient history to present a minor risk to the project. Remaining risks include electronics and software systems.

**Mitigation:** Implement thorough due diligence processes with trained professionals to scrutinize references, architecture, software abstractions, quality control systems and the professional histories of vendors being considered.

## Community Engagement

Community Engagement is the marketing, education and communication processes and strategies used to inform residents and businesses about the value proposition offered by the network.

**Likelihood:** Community Engagement risk is possible but nonetheless a risk that can be managed and monitored. Poor planning, management and execution increases the level of risk. Community engagement can be handled by internal City staff, but risk increases if staff member resources are inadequate for a project of this size. There is an abundant supply of marketing professionals available to assist with community engagement processes.

**Impact:** Community engagement is a key driver of project success due to the relationship between community engagement and take-rate.

**Mitigation:** Leverage the skills of competent marketing professionals and provide sufficient resources to make it easy for every resident to learn the basic value proposition for the network in comparison to alternatives through a variety of marketing, education and communication strategies.

## Cost Modeling Risk

Cost Modeling Risk is the risk that cost modeling significantly underestimates actual design, construction, and/or operational costs.

**Likelihood:** There is enough industry data to reasonably validate cost estimates.

**Impact:** Cost overruns can have a moderate to disastrous impact on network sustainability.

**Mitigation:** Validate financial assumptions against industry assumptions, market conditions, and account for local economic variables.

## Timeline Risk

The current plan is to connect 300 homes per year over a 10-year period. This can be a successful strategy. It is a measured approach and is similar to the strategy the Ammon, Idaho has followed for its buildout. Before finalizing this strategy there are several considerations that should be evaluated:

- 1) Each LID phase requires legal, financing and accounting transaction costs. Building the network with fewer LID's will lower the overall transaction costs for the project.
- 2) Maintenance & Operations does not break even until there are roughly 1,800 subscribers. Building at a faster pace will result in an accelerated period to break-even.
- 3) Interest Rates are at an unprecedented low currently and building over a 10- year period may expose later project years to some interest rate risk.

In the approach followed by Ammon, none of the fiber network loans were organized as City debt. The loans were directly between the subscribers via the LID and the lending institution.

**Likelihood:** Costs are certain to be higher for an extended buildout period. However, there are execution risks for accelerating the buildout and these trade-offs need to be weighed by City leaders.

**Impact:** Costs will be incrementally higher for an extended build-out schedule and M&O will have a longer ramp to sustainability.

**Mitigation:** The City can control the buildout schedule following a cost / benefit analysis of the options. An important consideration is alignment with construction partners. If the city is going to outsource construction, it should consult with potential construction partners about the alternative construction

schedules to make sure that the city's strategy is amenable to key construction partners.

## Regulatory Risk

Regulatory Risk is the risk that State or Federal regulations become an impediment or barrier to the city successfully building or operating a municipal network. Idaho state law is unclear on whether cities have the right to build and operate a municipal network. Because the law is unclear, cities have pursued Judicial Confirmations to establish the right to build and operate fiber optic infrastructure. Two of the cities that have followed this path are Ammon and Mountain Home.

**Likelihood:** There is a reasonable amount of risk that an incumbent operator could make a claim to stop McCall from building a competing network.

**Impact:** If a claim were to be brought against McCall, the likely process is that it would take an extensive amount of time and cost to contest or appeal the claim.

**Mitigation:** The McCall City Attorney can oversee an effort to follow the same process followed by Ammon and Mountain Home to seek and receive Judicial Confirmation that the City has the authority to build this infrastructure.

## Middle Mile Risks

Middle Mile risks include the following:

- 1) Lack of redundant options on divergent paths,
- 2) Pricing risk, and
- 3) The risk of being stranded or isolated without a viable path to an internet exchange point.

**Likelihood:** The closest internet exchange point is in Boise. McCall does have a divergent middle mile path to Boise via the three Middle Mile options, but bandwidth capacity is a potential issue going forward.

The most likely risk is that incumbent middle mile carriers will not provide competitively priced, high bandwidth middle mile options.

The risk of getting isolated or cut off from internet access is possible but has a low likelihood of occurring.

**Impact:** Each of the Middle Mile Risks could have a significant impact on network success. The most likely risk is pricing risk followed by insufficient Middle Mile

capacity. The obvious impact of pricing risk is that the per premise cost will increase.

**Mitigation:** The way the City can mitigate and possibly eliminate Middle Mile Risk is by working with the County to build and operate its own Middle Mile connection back to Boise. This may seem daunting to the City and the County, but it is worth doing a separate analysis and comparison of projected costs to proposals from existing incumbents. A significant benefit of the City & County working together to enable a permanent path to Boise is that the infrastructure could be paid off over 30 years and would provide abundant bandwidth to County residents and businesses.

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## *McCall RAPID Marketing Plan Overview*

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### **Introduction**

RAPID is the City of McCall's answer to the community's need for better internet connectivity. A faster and more economical method to get quality internet access to a home or business. RAPID is an open access network that will use McCall's existing underground fiber to allow multiple internet providers to offer citizens in McCall city limits residential and commercial high-speed internet through a single webpage.

The RAPID product/service will be distributed to the community in stages and therefore, each phase will require a carefully planned and executed marketing effort necessary to maximize the reach, potential, gauge strengths, discover opportunities as well as plans to maintain excellent service throughout the life of the utility.

This plan is intended to serve as a first general outline and guide, to McCall City Council, Information Systems staff and those on the planning project team, for addressing the important elements of the plan in reference to sales, advertising and marketing. The Outreach plan includes:

- Project market objectives
- Phased Planning
- Brand identity
- Key messages strategies and tactics
- Roles and responsibilities, reporting and evaluation

This plan is not intended to supersede any existing or future communications plans developed or implemented by Information Systems staff. The plan will be executed in concert with Infosys, the project team and public relations staff.

## Project Market Objectives

The overarching objectives of the RAPID Market plan are as follows:

- ☐ Garner recognition, visibility and community-wide support for the product/service
- ☐ Educate the public how the product works and can improve connectivity
- ☐ Position RAPID as a critical utility with citizens
- ☐ Highlight successful cost savings with successful Local Improvement District (LID) participation.
- ☐ Outline features and benefits
- ☐ Obtain feedback from test group, stakeholders and customers

### Phased Outreach Objectives

- Phase 1A – Test Area
- Phase 1B – First LID
- Phase 2 – Ongoing Phases Service Plan

### Target Audiences

This plan is designed to reach a wide variety of stakeholders. Below are the general target audiences. Specific organizations and individuals are detailed in the appendix to this plan. (*Note: We consider the media to be a vehicle, rather than an audience.*)

- ☐ Citizens of McCall/Government and public officials
- ☐ Technology industry policymakers, business leaders and regional economic development officials/professionals
- ☐ Potential service residential and business customers

### Phased Targeting

- ☐ Phase 1A (Test Area)
  - Homes within the test area as identified. Appendix or Reference page?
- ☐ Phase 1B (First LID)



- Home and businesses within area as identified currently holding adequate underground fiber lines.

☐ Phase 2

- All home and businesses within all areas in the City of McCall with appropriate underground infrastructure.

## Brand Identity

RAPID requires strong name and logo recognition in the community for developing a brand identity that raises awareness, generates enthusiasm and creates visibility. Specifically, we recommend a logo font and tagline to be utilized on all communication materials relating to the plan, including but not limited to:

- ☐ Websites, digital media, and advertisements
- ☐ Transportation, vests, hats
- ☐ Onsite Work signage
- ☐ Contractors serving RAPID
- ☐ Correspondence, Press releases and Presentations
- ☐ Public notices
- ☐ Fliers and door hangers
- Community partner's web posts and newsletters, plans and drafts
- Recommended logo and taglines will be designed to promote continuity of message and establish a unified identity. Through a creative play on words, the proposed tagline theme will position the plan as a forward-thinking initiative with an emphasis on building the future and guiding the Library's vision for tomorrow. The brand identity is used as a unifying theme to foster support and elevate the value and importance of the RAPID product/service
- The current/proposed logo:



- ☐ The current/ proposed tagline: Connecting the City of McCall

## Key Messages

Effective outreach requires a commitment to communicating an agreed-upon platform of key messages. The following three key messages are intended to serve as a guide for communicating with target audiences about RAPID:

### What

RAPID is a faster and cheaper way to get quality internet access to your home or business.

### Why

RAPID allows multiple internet providers to offer you high speed internet services to both residential and commercial customers through a single webpage allowing better connectivity at reduced costs.

### How

RAPID uses McCall's existing underground fiber network.

## Key Messages and Proof Points

The three key messages are repeated below with proof points to support them. This is not intended to be a word-for-word script; persuasive communications require that spokesperson(s) convey the key messages in their own words. To ensure consistency in the messages, we recommend that RAPID spokesperson(s) refer to and utilize the guide prior to communications with elected officials, opinion leaders, media, and other interested stakeholders.

- ❑ The City of McCall has identified Internet as an essential service.
- ❑ Fiber optic connections are faster, less expensive and future proof
- ❑ We currently have inadequate connectivity limiting capacities in McCall and the region.
- ❑ Three parts to the RAPID Service.
  - City Utility Fee- A monthly fee, only charged if you have ongoing internet service and can be canceled any time.
  - Internet Service- A monthly fee, only charged if you have ongoing internet service and can be canceled any time.
  - House Connection- A onetime fee with option to finance over 20 years or if your property is already connected to fiber there is no house connection fee.

- ❑ The cost of the RAPID installation can be paid overtime or in one lump sum.
- ❑ The costs of service monthly will vary based on chosen Internet Service Provider.
- ❑ The costs will be reduced with increased participation in a LID.
- ❑ RAPID will give its citizens more options for education, remote work, online efficiency and aid area businesses with future development.
- ❑ The installation of fiber to the property will increase its value.

The RAPID project will be maintained by the Information Systems Manager and staff. Updates will be publicized through the all vehicles of media including digital, and on a dedicated website.

### **Strategies and Tactics**

In order to develop widespread participation and community buy-in for the RAPID project and service, we propose the following overarching communications strategies to occur at three key milestones of the project:

- **Phase 1A – The TEST PHASE**, a residential area is identified receives service free as well as delayed/discounted installation with required opinion and feedback as a part of the process. The feedback is then used to further improve product/service.
- **Phase 1B – The FIRST LID PHASE**, a residential area is identified as a first launch area for service.
- **Phase 2 – The CONTINUING RAPID SERVICE/INSTALLATION PHASE**, all areas with appropriate infrastructure are measured for interest and are candidates to initiate service.

**Strategy:** *Support the RAPID project by generating interest in targeted phase area.*

**We will work with staff to generate interest from local news outlets. Specific tactics may include but are not limited to:**

- ❑ Organize and hold a public meeting to publicly launch RAPID.
- ❑ Develop a media advisory and press release to publicize the public meeting and public launch of RAPID.
- ❑ Pitch media and schedule interviews with Project Leader to discuss RAPID.

- Continue to develop interesting RAPID content on the organization's website

**Strategy:** Utilize neighborhood, community and referral programs to market RAPID.

- ☐ We will leverage existing partnerships and foster new relationships to promote and educate the community on RAPID.
- ☐ Create programs that reward current users for referrals and new subscribers
- Work with HOA's to develop large scale interest in focused areas.
- ☐ Use current utility customer databases to generate interest in RAPID.
- ☐ Utilize door hanger construction notifiers (We are working on RAPID next door)
- ☐ Reach out to community partners to mention the public meeting through websites and their social media platforms such as blogs, Facebook, and Twitter.
- Prepare short articles on RAPID for inclusion in community partners' newsletters, websites, etc.
- ☐ Create and distribute flyers to post on community bulletin boards and hand out at city events.
- ☐ Distribute e-blasts to community partners at key milestones in the process.

**Strategy:** Influence public using social media to promote RAPID and build interest.

Create an individual RAPID social media page to pair with the website.

Consistent coordinated updates with varying levels of frequency.

Create a foundation for social media communications in the future with customers.

- ☐ Develop a system and staff for coordinating RAPID content.
- ☐ Build the number of Facebook followers using other city social pages.
- ☐ Utilize multimedia (videos, etc.) to maximize publicity.
- ☐ Distribute press releases, op-eds, and meeting announcements through social media channels.

- ☐ Regularly monitor the channel to address comments and questions and ensure all posts are consistent with the overall message of RAPID.

### **Roles and Responsibilities**

The City of McCall Information Systems Department in conjunction with the Communications Department will control RAPID in all external and internal communications related to development phases.

### **Evaluation**

At multiple times throughout all phases of the project, we will collect feedback and evaluations of the installation services and internet connect. Identification of the most relevant metrics may be developed in advance may include the following:

- ☐ Feedback with the goal to analyze quality in service and installation.
- ☐ SWOT with each phase.
- ☐ Technical measurements as identified by InfoSys

### **Target Media**

Below is a list of targeted media, grouped by local outlets and industry/trade publications. We anticipate that most of the interest during the strategic planning process will come from local media, primarily print outlets. The final master plan will present the McCall Public Library with an opportunity to promote its vision regionally and through targeted trade media.

#### **Local Outlets:**

- ☐ McCall Star-News
- ☐ McCall Magazine
- ☐ Visit McCall
- ☐ Local Blogs.
- ☐ Local Podcasts
- ☐ Radio - KDZY
- ☐ Radio - STARR
- ☐ KTVB, KBOI, KIVI
- ☐ Idaho Business Review
- ☐ Idaho Statesman

# State of Idaho Public Broadband Grant Application: Households

Applicant	Noni Stapleton
Applicant ID	APP-004295
Company Name	Melba
Recipient Address	Melba PO Box 209 Melba, ID 83641
Phone	(208) 495-2722
Email	cityclerk@cityofmelba.org
Amount Requested	\$82,399.00
Status	Submitted
Funded	<input type="checkbox"/>

Application Title: State Broadband Funding- Housing -Melba, Idaho

## Applicant Information

**NOTICE: Grant applications, challenges, and responses to challenges will be posted to the Idaho Department of Commerce website**

### Purpose:

#### 1. Program Description

The CARES Act funding received by the State of Idaho will fund projects across the state that create and retain local jobs and result in purposeful outcomes, including distance learning, telehealth public safety, commerce, and overall well-being. This CFAC Broadband Grant initiative grant program (the “Program for Households”) is designed to meet the CARES Act criteria, and help Idaho rebound from the COVID-19 public health emergency. Approximately 70% of the \$50 million received by the Idaho Department of Commerce will be allocated to this program aimed at households that lack access to broadband.

**• Projects must be completed and grant funds requested and dispersed before December 15th, 2020.**

**Question:** Contact information of applicant: Name Title Mailing Address Email Phone

Noni Stapleton, City Clerk-Treasurer Melba City Hall, P.O. Box 209, Melba, ID 83641  
cityclerk@cityofmelba.org 208-495-2722

**Question:** List the cities/communities where the project(s) will take place.

City of Melba

**Question:** Enter the zip code(s) where the project will take place.

83641

**Question:** Enter name and title of designated grant administrator

Noni Stapleton, City Clerk-Treasurer

**Question:** Enter the email of the designated grant administrator

cityclerk@cityofmelba.org

**Question:** Enter the phone number of the designated grant administrator

2084952722

## Project Requirements

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### Eligible Projects

Projects must meet the following eligibility criteria: The project must:

- Be infrastructure investment, associated equipment, and accessories related to broadband as defined by the FCC: speeds of 25 Mbps download and 3 Mbps upload.
- Meet the CARES Act criteria, which is designed to address key areas of public health and safety by improving opportunities to telework, facilitate distance learning, and improve public safety
- Be a project that serves underbuilt areas and does not overbuild existing broadband service. Underbuilt areas are defined as locations where less than fifty percent (50%) of households in the project area have access to broadband service.
- Include only new broadband service to be installed, owned, and operated by for-profit companies, or membership owned cooperative corporations as defined in [Idaho Code Title 30, Chapter 30](#) that provide broadband services to the public.
- Provide broadband service within the applicant's proposed project area.
- Be completed, operable, paid for, and submitted to the Idaho Department of Commerce for payment no later than December 15, 2020.
- Include broadband infrastructure and equipment costs meeting CARES Act criteria. Satellite service is not eligible for grant award.

**Question:** Does your project meet the CARES Act criteria?

Yes

No

**Question:** Does your project provide a minimum of 25 Mbps Download and 3 Mbps Upload as outlined by the CFAC Committee Recommendation?

Yes

No

**Question:** Does your project provide service to areas where less than 50% of households in the project area has broadband as outlined by the CFAC Committee Recommendation?

Yes

No

**Question:** Include only new broadband service to be installed, owned, and operated by for-profit companies, or membership owned cooperative corporations as defined Idaho Code Title 30, Chapter 30 that provide broadband services to the services to the public.

Yes

No

**Question:** I understand that the State of Idaho will provide no funding and have no obligations for projects that fail to be completed by December 15, 2020.

Yes

No

## Scored Criteria

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**Question:** Provide an overview of the project including why the project is important and will address broadband needs of the community.

This community has been underserved for many years with very low internet speeds available to them. As more and more residents have the need to school from home, utilize telehealth, work from home and utilize the internet for basic daily information and entertainment needs, the access to higher broadband speeds and reliability are critical. This project will provide reliable service up to 30 meg download speeds to these residents and will not only improve the lives of the families living here but strengthen the economy for the city of Melba

**Question:** Is your project in an area where 50% of households is in an unserved area?



Yes

No

**Question:** Is your project in an area where more than 50% of households is in an underserved area?

Yes

No

**Question:** Is the project in a town/city/municipality of less than 3,000 people?

Yes

No

**Question:** How many households may receive broadband service because of this project?

237.00

**Question:** Does the project address a need as identified in a local or regional broadband plan? If yes, please describe.

The City of Melba does not have a Broadband Plan implemented at this time.

## Additional Requirements

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Upload Supporting Documents for scope of project including maps, site plans, studies, or photographs, demonstrating the location of the project.

### **Project Attachment Templates:**

[CARES Act Certification](#)

[Grant Budget Template](#)

[Project Schedule Form](#)

[Letters of Support/Community match template](#)

**Question:** Estimated total project cost?

85000.00

**Question:** List the underserved and unserved community facilities (schools, libraries, government offices, hospitals, public safety, etc.) within the proposed project area.

Melba City Hall, Melba Valley Senior Center, Melba Fire/QRU, Terry Reilly Heath Services, Melba Elementary, Middle/High Schools will benefit from this project.

**Question:** What is the average cost per household of new broadband service based on this project cost?

\$360.00 per home

**Question:** What is the maximum broadband speed that will be provided by the project?

30 meg download by 3 meg upload

**Question:** Are permits, permissions, rights of way and zoning requirements readily available in order for the project to be completed and paid for by December 15, 2020?

Yes

**Question:** If answered no in previous question, please describe. If the project does not require any of the above answer N/A.

N/A

**Question:** Describe how the project will be administered, audited for completion, and accounting performed.

Sparklight will notify a designated city official when the project has been completed and addresses have been entered into the billing system. At that time, copies of all invoices related to the project will be provided to the City for review and reimbursement from Grant funds.

**Question:** Include any other information regarding why your project should be considered for funding.

Idaho is in need of more broadband capacity, particularly in its rural and more remote areas of the county. There has been a newly expanded need for distance education, remote work and telehealth that have been amplified as a result of the COVID-19 pandemic. Now more than ever, people need fast, reliable internet service to their homes. Melba is an area that has been underserved for many years with unreliable internet access and speeds as low as 1.5 meg service. Sparklight has been working to find a solution for the residents in order to bring our services into the area. Due to size and remoteness of the town a traditional build of fiber/coax is extremely expensive for the number of homes serviced. Our new fixed wireless product is a great solution for a community such as this.

**Question:** Upload Supporting Documents for scope of project including maps, site plans, studies, or photographs, demonstrating the location of the project.

[City of Melba Vicinity Map.pdf](#) (7/15/2020 2:33 PM)

[Project Scope-Broadband - Melba.docx](#) (7/15/2020 2:32 PM)

**Question:** Upload the completed Grant Budget Template for the project that outlines the various costs.

[Broadband Grant Budget - Melba.pdf](#) (7/15/2020 2:42 PM)

**Question:** Complete the Project Schedule Form

[Broadband Grant - Project Schedule-Melba.pdf](#) (7/15/2020 2:43 PM)

**Question:** Include any Letters of Support or Community Match from the community.

[Sparklight letter of support - Melba.pdf](#) (7/15/2020 2:46 PM)

[Broadband Grant - Letter of Support-Mayor Dickard.pdf](#) (7/15/2020 2:45 PM)

**Question:** Provide a copy of your Community Broadband Plan if applicable.

No Attachments

**Question:** Provide a notarized CARES Act Certification that this project meets the CARES Act criteria.

[Broadband Grant CARES Act Certification-Melba.pdf](#) (7/15/2020 2:47 PM)

**Question:** Provide commitments from community anchor institutions or public safety networks which will utilize your service if the project is funded.

No Attachments

**Question:** Map of the project area demonstrating the insufficient availability of broadband service (25/3Mbps) in the proposed service area where less than 50% of households have access to broadband.

[Map 1-Existing Broadband Availability.pdf](#) (7/15/2020 3:40 PM)

**Question:** Map of the project area which includes the number of households served, the broadband speeds provided, and the technology used to provide that service.

[Map 2-Proposed Broadband Availability.pdf](#) (7/15/2020 3:41 PM)

## Signature

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Your identity has been authenticated through the login process with a unique email address and password available only to you. You agree that by typing your name, title and date below, you are electronically signing the application. By electronically signing the application, you acknowledge and represent that you understand and accept all the terms and conditions stated within the application and declare that the information provided is true and that the documents you are submitting in support of your application are genuine and have not been altered in any way.

**Question:** Type your name.

Noni Stapleton

**Question:** Type your title.

City Clerk-Treasurer

**Question:** Type the submission date.

July 15, 2020



# City of Melba

Melba City Hall

401 Carrie Rex Ave P.O. Box 209 Melba, ID 83641

Phone: 208-495-2722 Fax: 208-495-0952

July 14, 2020

RE: Letter of Support  
State Broadband Funding Grant Application-City of Melba

Dear Committee,

As the Mayor of the City of Melba, I would like to express my full support for the City's Idaho State Broadband Grant application for funding to improve Broadband capabilities in the Melba area. The Melba area has been identified as underserved by Governor Little's Broadband Task Force, this project would fulfill a need to assist the residents of Melba with distance learning, telehealth and those working from home.

Due to budget constraints, our City is diligent in seeking funding opportunities to help make projects happen. Your approval of this application will have a meaningful impact on our community.

Please contact me if you have any questions regarding this letter of commitment. I may be reached at 208-598-1267 or email [mayor@cityofmelba.org](mailto:mayor@cityofmelba.org).

Sincerely,

A handwritten signature in blue ink, appearing to read "Cory Dickard", is written over a large blue scribble that partially obscures the text below.

Cory Dickard, Mayor  
City of Melba

*If requested this correspondence can be made available in appropriate alternative formats to persons with disabilities. Persons seeking an alternative format should contact Melba City Hall at 208-495-2722 for further information. City of Melba is an Equal Opportunity Employer*



### Idaho CARES Act Broadband Grant Budget

Line Item	Grant Dollars				Total
Construction Labor, Material & Permitting	\$ 4,036				\$ 4,036
Tower equipment labor & materials	\$ 78,363				\$ 78,363
					\$ 0
					\$ 0
<b>Totals</b>	<b>\$ 82,399</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 82,399</b>



# City of Melba

Melba City Hall

401 Carrie Rex Ave P.O. Box 209 Melba, ID 83641

Phone: 208-495-2722 Fax: 208-495-0952

[cityclerk@cityofmelba.org](mailto:cityclerk@cityofmelba.org)

## State of Idaho Broadband Grant CARES Act Certification

STATE OF IDAHO  
COUNTY OF CANYON

The undersigned, Noni Stapleton, representing the City of Melba, 401 Carrie Rex, P.O. Box 209, Melba, Idaho 83641, hereby swear (affirm) that:

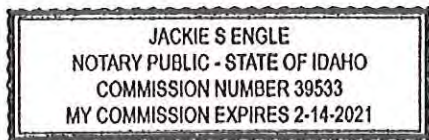
1. I am City Clerk-Treasurer of the City of Melba and thereby authorized to make these statements.
2. I have personal knowledge of the facts herein and can testify completely thereto.
3. The purpose of this statement is to assure the Idaho Department of Commerce that the project will meet the CARES Act Criteria. Further guidance can be found here and here.
  - i. Expenses to facilitate distance learning, including technological improvements, in connection with school closings to enable compliance with COVID-19 precautions.
  - ii. Expenses to improve telework capabilities for public employees to enable compliance with COVID-19 public health precautions.

The Melba area has been identified as underserved by the Governor's Broadband Taskforce, this would fulfill a need to assist the residents in Melba with long distance learning, telehealth and those needing to work from home.

Noni Stapleton  
Signature

7-15-2020  
Date

SUBSCRIBED AND SWORN before me on this 15 day of July, 2020



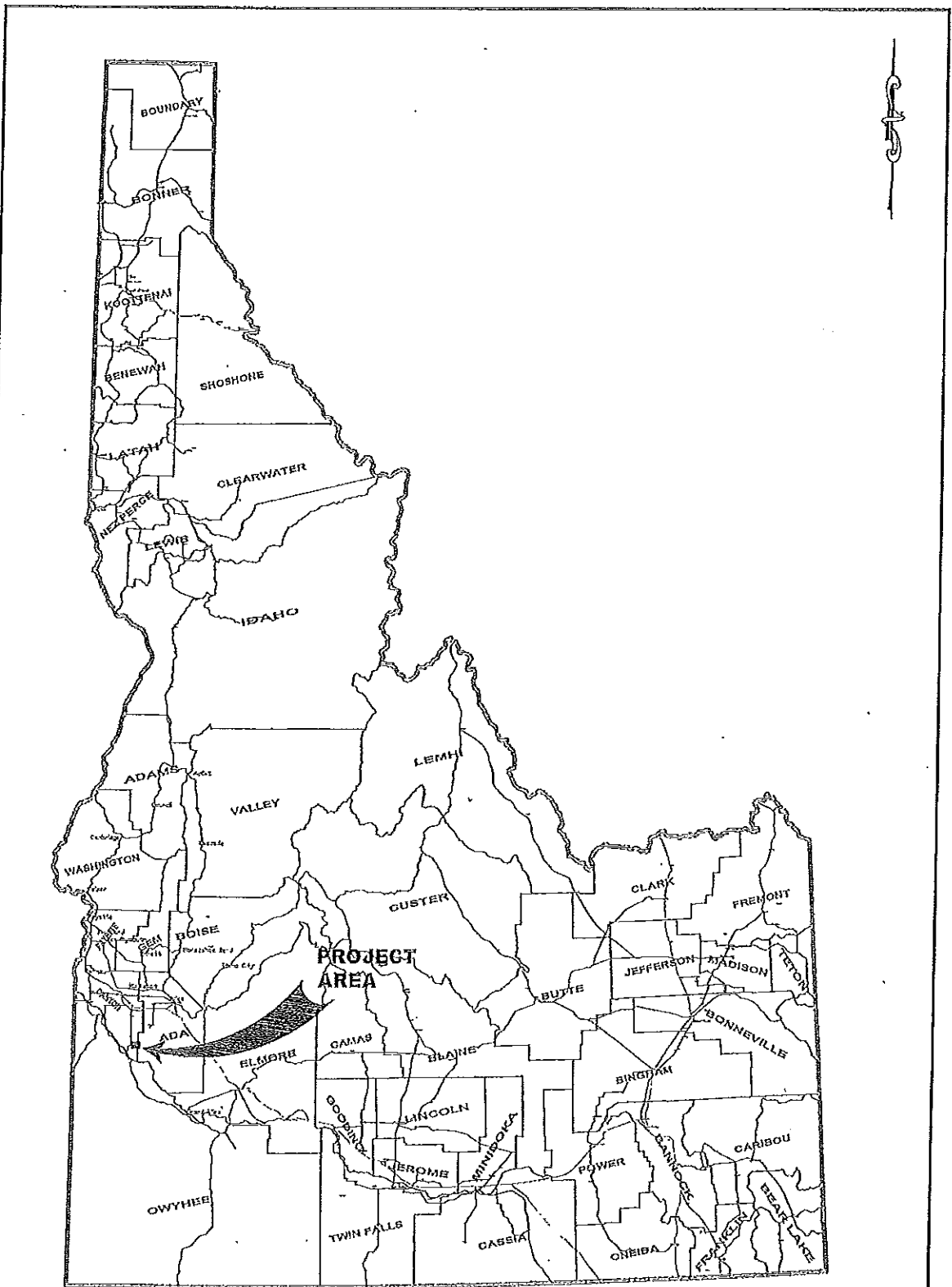
Jackie S Engle  
Notary Public for Idaho

Residing at Melba ID

Commission expires 02-14-2021

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ENGINEERING CO.**


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(208) 843-3311 • Fax: (208) 843-3312

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VICINITY MAP  
CITY OF MELBA  
CANYON COUNTY, ID

JOB NO.	MB 121602 A
DATE	10-28-03
PROJECT	
REVISED	10-28-03
DESIGNED BY	MGM
CHECKED BY	AJG

# Map 1 – Existing Broadband Availability

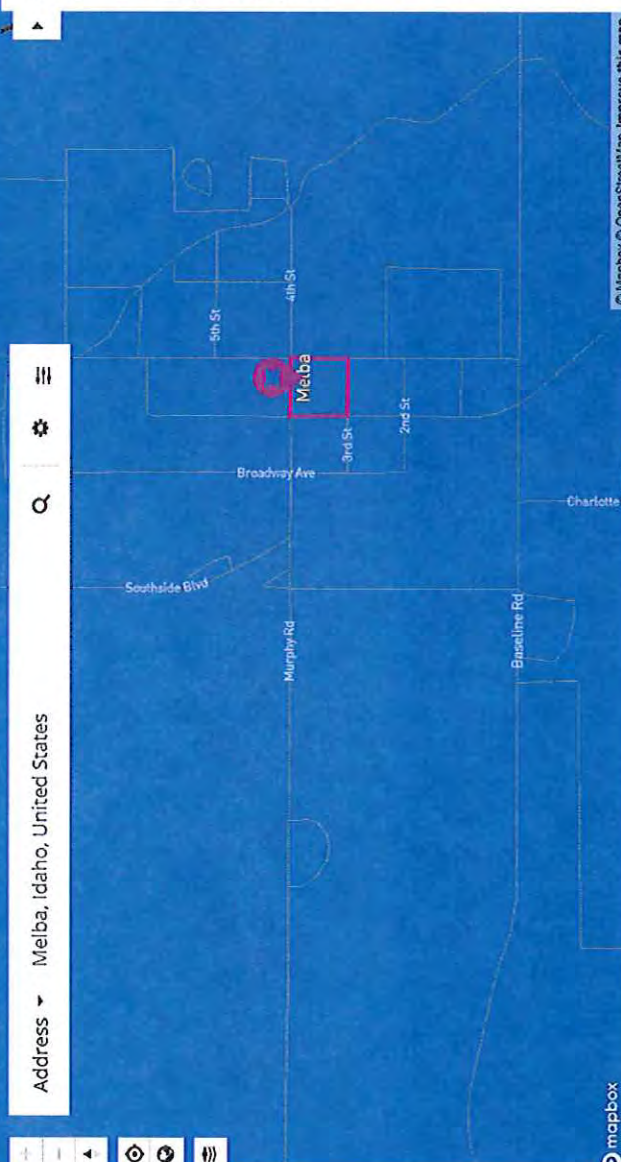


Federal Communications Commission

Fixed Broadband Deployment

Home
Location Summary
Area Summary
Area Comparison
Provider Detail
Data Download
About

Address ▾ Melba, Idaho, United States

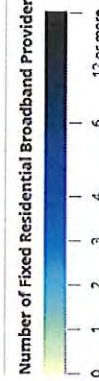


© Mapbox © OpenStreetMap Improve this map

**All Providers Reporting Service**

Census block ID: 160270223003262

**Number of Fixed Residential Broadband Providers**



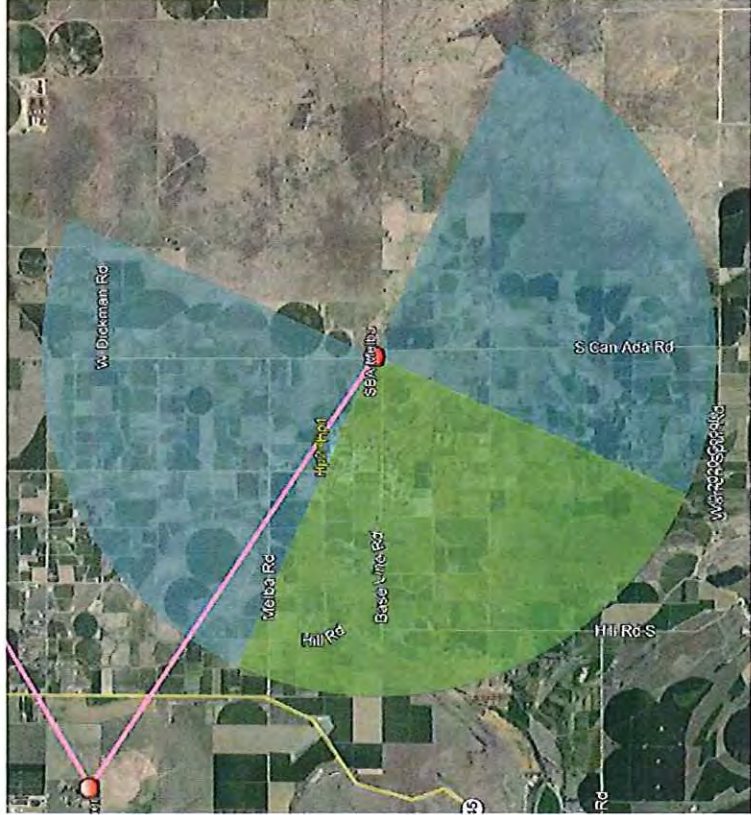
0 1 2 3 4 6 12 or more

**Broadband**  
 Technology ADSL Cable, Fiber, Fixed Wireless, Satellite, Other  
 Speed ≥ 25/3 Mbps  
 Date June 2019 (latest public release)

Provider	Tech	Down (Mbps)	Up (Mbps)
ViaSat, Inc.	Satellite	35	3
Safelink Internet	Fixed Wireless	25	5
Hughes Network Systems, LLC	Satellite	25	3
JAB Wireless, Inc.	Fixed Wireless	15	15
CenturyLink, Inc.	ADSL	12	0.896

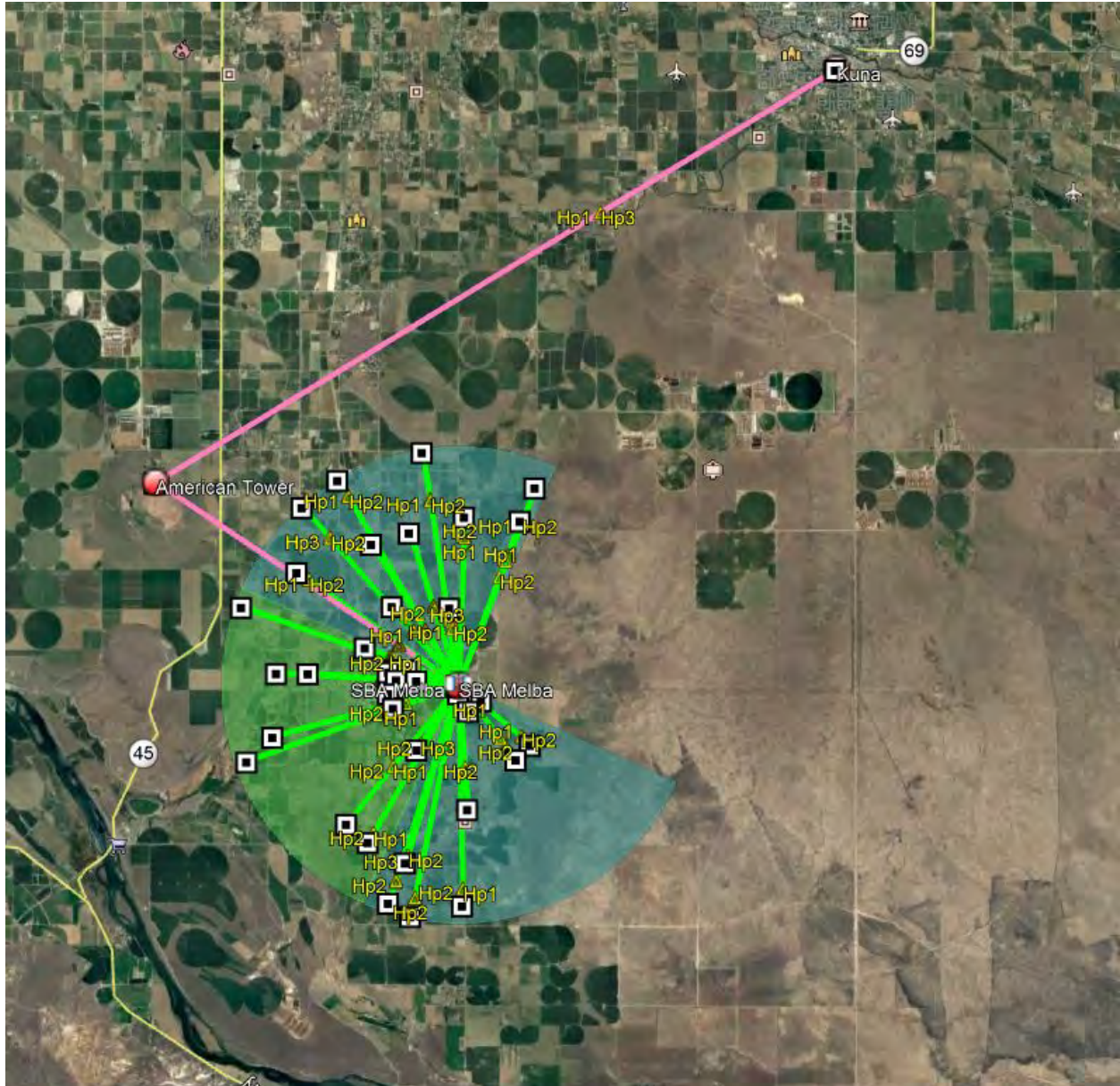
Map 2 – Proposed Broadband Availability – Sparklight FWA

Sparklight - Melba FWA	
Number of Households Reached	237
Broadband Speed Offered	30x3
Technology - Fixed Wireless	2 towers



Scope of Project

This project includes bringing fiber to two towers and installing wireless equipment on the towers as shown in the map below.





2101 E. Karcher Rd.  
Nampa, ID 83687  
208-455-5555

July 15<sup>th</sup>, 2020

City of Melba  
401 Carrie Rex Ave,  
Melba, ID 83641  
Noni Stapleton, City Clerk

RE: State of Idaho Broadband Grant – Letter of Support

Dear Ms. Stapleton,

I am pleased to confirm that Sparklight, Internet Service Provider, is a partner for the State of Idaho Broadband Grant application for Households. We have confirmed contractor staff availability to ensure the project meets the December 15<sup>th</sup>, 2020 completion date. Sparklight will manage the procurement and installation of broadband equipment and distribution system.

Sparklight supports the project intent to facilitate telework and distance learning by providing broadband access in Canyon County and the town of Melba thereby improving public safety in compliance with COVID-19 public health precautions.

Sincerely,

A handwritten signature in blue ink that reads "Juli Blanda".

Juli Blanda  
Vice President, West Division - Sparklight

A handwritten date in blue ink that reads "July 14, 2020".

July 14, 2020  
Date

# State of Idaho Public Broadband Grant Application Public Safety/Local Government

---

Applicant	Jamie McDaniel
Applicant ID	APP-004115
Company Name	Mountain Home
Recipient Address	Mountain Home 1150 South Main St Mountain Home, ID 83647
Phone	(208) 587-2108
Email	jmcdaniel@mountain-home.us
Amount Requested	\$589,360.00
Status	Submitted
Funded	<input type="checkbox"/>

Application Title: Mountain Home Broadband Project

## Applicant Information

---

**NOTICE: Grant applications, challenges, and responses to challenges will be posted to the Idaho Department of Commerce website**

### Purpose:

The CARES Act funding received by the State of Idaho will fund projects across the state that create and retain local jobs and result in purposeful outcomes, including distance learning, telehealth public safety, commerce, and overall well-being. This CFAC Broadband Grant initiative grant program (the “Program for Public Safety and Local Government”) is designed to meet the CARES Act criteria, and help Idaho rebound from the COVID-19 Emergency. Approximately 20% of the total of \$50 million received by the Idaho Department of Commerce will be allocated to this program aimed at public safety organizations and local governments that lack access to broadband.

**• Projects must be completed and grant funds requested and dispersed before December 15th, 2020.**

**Question:** Contact information of applicant: Name Title Mailing Address City/Zip Email Phone

Jamie McDaniel, 160 S 3rd East, Mountain Home, ID 83647 jmcDaniel@mountain-home.us  
(208) 580-2091

**Question:** List the cities/communities where the project(s) will take place.

Mountain Home, Idaho

**Question:** Enter the zip code(s) where the project will take place.

83647

**Question:** Enter name and title of designated grant administrator

Jamie McDaniel, Grants Administrator

**Question:** Enter the email of the designated grant administrator

jmcDaniel@mountain-home.us

**Question:** Enter the phone number of the designated grant administrator

(208) 580-2091

## Project Requirements

---

### PROJECT REQUIREMENTS

- Be infrastructure investment, associated equipment, and accessories related to broadband capable of speeds of 1,000 Mbps download and 1,000 Mbps upload symmetrical.
- Be related to broadband with fiber to:
  - One (1) designated government facility: and
  - One (1) location for public Wi-Fi access where 100 citizens could simultaneously access minimum broadband speeds at 25 Mbps download and 3 Mbps upload while practicing physical distancing. Examples of locations include a municipal building parking area or a municipal park.
- Meet the CARES Act criteria, which is designed to address key areas of public health and safety by improving opportunities to telework, facilitate distance learning, and improve public safety.
- Be a project that does not overbuild existing broadband infrastructure at the required speeds to a local government facility for public safety and local governance.
- Applicants may own and maintain the infrastructure but make such infrastructure open and available for broadband service from only for-profit companies, or membership owned cooperative corporations as defined in [Idaho Code Title 30, Chapter 30](#) that provide broadband services to the services to the public.
- Be completed, operable, paid for, and submitted to the Idaho Department of Commerce for payment no later than December 15, 2020.
- Include broadband infrastructure and equipment costs meeting CARES Act criteria. Satellite service is not eligible for grant award.

**Question:** Does your project meet the CARES Act criteria?

Yes

No

**Question:** Project provides a minimum of 1,000Mbps download and 1,000Mbps upload symmetrical to public facility and access by citizens in municipal park or parking area where a minimum of 100 citizens could have access simultaneously at 25Mbps download/3Mbps upload.

Yes

No

**Question:** Does your project provide high speed service within the applicant's proposed facility for public safety, local governance, and or one (1) open access municipal location nearby for public access for emergencies.

Yes

No

**Question:** Applicants may own and maintain the infrastructure but must make such infrastructure open and available for broadband service from only for-profit companies, or membership owned cooperative corporations that provide broadband services to the public.

Yes

No

**Question:** I understand that the State of Idaho will provide no funding and have no obligations for projects that fail to be completed by December 15, 2020.

Yes

No

## Scored Criteria

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**Question:** Provide an overview of the project including why the project is important and will address broadband needs of the community.

---



Reliable internet connectivity is essential in the 21st century. Just as electricity enables the first industrial revolution, fiber optic infrastructure is the foundation for the digital revolution. Residents in our city have been paying way too much for mediocre access to the internet. The City of Mountain Home has made it a key priority of the city to build and establish local control of this essential infrastructure. The goals of the city for this project include the following: Lower the cost of the internet access by 25% - 30% for the residents and businesses, significantly increase the speed and reliability of internet access, increase competition and give residents multiple options for ISP's on demand in real time, build a state-of-the-art network that will improve economic development and foster innovation and leverage the network to improve the services provided in the city including public safety, transportation, healthcare, education, emergency communications, and new services that will become possible with advanced network infrastructure. The city is not trying to compete with the private sector. The city will simply build and operate the fiber optic network. The network will then be open to any service provider that seeks to offer services in the city. The city has adopted this open model to achieve its goals because the network now touched nearly everything that is important for the city and its citizens. This project request will allow the city to provide fiber into the city's north fiber backbone. It will create another fiber hut in the city's current booster station north of Legacy Park. This project will also provide broadband speeds at 25 Mbps download and 3 Mbps upload to support up to 100 citizens in three of our local parks. These improvements meet the CARES Act criteria addressing public health and safety by improving telework capabilities, improving public safety and facilitate distance learning.

**Question:** Is your project in an area where no local government facility has the internet speeds and bandwidth described 1000 Mbps download and 1000 Mbps upload symmetrical?

Yes

No

**Question:** Is your project in an area where no public park, municipal parking area, or similar access area for physical distancing has broadband speed to support 100 citizens at 25 Mbps download and 3 Mbps upload?

Yes

No

**Question:** Is the project in a town/city/municipality of less than 3,000 people?

Yes

No

**Question:** Does the project address a need as identified in a local or regional broadband plan? If yes, please describe.

Yes, the City of Mountain Home approved and adopted by City Council our Broadband Policy effective October 10, 2018. Needs are also identified in the City of Mountain Home 2020

Comprehensive Plan effective December 23, 2019. Creating a fiber utility is specifically outlined in this comprehensive plan and Mountain Home's Mayor and City Council have made it a key priority of the City.

**Question:** Will this project be in conjunction with another broadband grant for Households?

Yes

No

## Additional Requirements

---

Upload Supporting Documents for scope of project including maps, site plans, studies, or photographs, demonstrating the location of the project.

### Project Attachment Templates:

[CARES Act Certification](#)

[Grant Budget Template](#)

[Project Schedule Form](#)

[Letters of Support/Community match template](#)

**Question:** Estimated total project cost?

589360.00

**Question:** List the underserved and unserved community facilities (schools, libraries, government offices, hospitals, public safety, etc.) within the proposed project area.

Many community facilities are currently underserved within this project area. St. Luke's Elmore Medical Center is located 250 feet from the City's main fiber hut. Discovery Preschool is located 120 feet from the fiber hut. Mountain Home Senior Citizen Center is 120 feet from the proposed fiber line. North Elementary School is located 500 feet from the proposed fiber line. Three public parks are located on the proposed route as well. These currently have no WiFi access; this project will add this service in all three parks, allowing for physical distancing and enough broadband speed to support 100 community members at least 25 Mbps download and 3 Mbps upload.

**Question:** What is the maximum broadband speed that will be provided by the project?

1,000 Mbps download and 1,000 Mbps upload

**Question:** Are permits, permissions, rights of way and zoning requirements readily available in order for the project to be completed and paid for by December 15, 2020?

Yes, the project will be completed and paid before December 15, 2020. This entire project is within City right of way, with no additional easements or permits required.

**Question:** If answered no in previous question, please describe. If the project does not

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require any of the above answer N/A.

N/A

**Question:** Describe how the project will be administered, audited for completion, and accounting performed.

Jamie McDaniel, Grant Administrator, City of Mountain Home: Coordinate City Council agenda items, financial ledger and contract documents with City Clerk; ensure grant funds are used in accordance with the terms of the grant requirements; maintain accounting records to ensure grant funds are expended per the grant contract; maintain financial spreadsheet documenting all grant related expenditures and reimbursement requests. Rich Sykes, Mayor, City of Mountain Home: Communicate and coordinate with contractor, administrate fiber backbone construction activities, and conduct inspections during and upon completion of the project. The Mayor will ensure broadband is operational prior to project completion and the contractor being paid.

**Question:** Include any other information regarding why your project should be considered for funding.

An important difference between the network Mountain Home is deploying and the majority of networks across Idaho and the U.S is that each business and resident that subscribes to the fiber network will receive a dedicated connection rather than a connection that is shared between 32 neighbors. Additionally, the upload and download speeds will be symmetrical. The importance of these things has become more obvious during the COVID-19 crisis with increased demand on existing infrastructure. Upload speeds are important for businesses, including home-based businesses and people who work from home, for students to ensure their learning potential is not blighted and for hospitals and doctors' clinics. Mountain Home needs good upload speeds to include sending large files, cloud applications like Google Docs and Dropbox, VoIP, FaceTime, Zoom, Skype, hard drive backups and In-house web hosting. Providing broadband to support at least 100 citizens, while maintaining physical distancing in our parks is imperative today, and the Mountain Home Broadband Project will provide all of these needs for our community.

**Question:** Upload Supporting Documents for scope of project including maps, site plans, studies, or photographs, demonstrating the location of the project.

[Richard Aguirre Park Photos.pdf](#) (7/15/2020 4:26 PM)

[Stonetree Park Photos.pdf](#) (7/15/2020 4:26 PM)

[Legacy Park Photos.pdf](#) (7/15/2020 4:26 PM)

[FIBER TRUNK LINE 6-2020 36x48.pdf](#) (7/15/2020 4:25 PM)

**Question:** Upload the completed Grant Budget Template for the project that outlines the various costs.

[Idaho-Cares-Act-Broadband-Grant-Budget.pdf](#) (7/13/2020 4:49 PM)

**Question:** Complete the Project Schedule Form

[Idaho-Cares-Act-Broadband-Grant-Project-Schedule.pdf](#) (7/15/2020 12:03 PM)

**Question:** Include any Letters of Support or Community Match from the community.

[Letter of Support - MH Fiber Department.pdf](#) (7/15/2020 12:19 PM)  
[Letter of Support - MH Police Department.pdf](#) (7/14/2020 3:23 PM)  
[Letter of Support - MH Chamber of Commerce.pdf](#) (7/13/2020 4:53 PM)  
[Letter of Support - Mountain Home Public Library.pdf](#) (7/13/2020 4:52 PM)  
[Letter of Support - Elmore County Extension Office.pdf](#) (7/13/2020 4:51 PM)  
[Letter of Support - Elmore County Commissioners.pdf](#) (7/13/2020 4:51 PM)  
[Letter of Support - Mayor.pdf](#) (7/13/2020 4:50 PM)

**Question:** Provide a copy of your Community Broadband Plan if applicable.

[City of MH Broadband Policy & Resolution.pdf](#) (7/14/2020 3:22 PM)  
[MH Comprehensive Plan - Chapter 13.B - Fiber Utility.pdf](#) (7/14/2020 3:05 PM)

**Question:** Provide a notarized CARES Act Certification that this project meets the CARES Act criteria.

[CARES Act Certification.pdf](#) (7/13/2020 4:58 PM)

**Question:** Provide commitments from community anchor institutions or public safety networks which will utilize your service if the project is funded.

[Support Letter- Mtn Home School District.pdf](#) (7/15/2020 12:16 PM)  
[Letter of Support - St. Luke's Elmore.pdf](#) (7/15/2020 8:23 AM)

**Question:** Map of the project area demonstrating the insufficient availability of broadband service for a public facility symmetrical service and in the proposed public service area for 100 citizens using minimum service.

[MH Broadband Project Map.pdf](#) (7/15/2020 2:44 PM)

**Question:** Map of the project area which includes the public facility and public service area, the broadband speeds provided, the fiber, and the technology used to provide the services.

[MH Broadband Project Map.jpg](#) (7/15/2020 2:44 PM)

## Signature

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Your identity has been authenticated through the login process with a unique email address and password available only to you. You agree that by typing your name, title and date below, you are electronically signing the application. By electronically signing the application, you acknowledge and represent that you understand and accept all the terms and conditions stated within the application and declare that the information provided is true and that the documents you are submitting in support of your application are genuine and have not been altered in any way.

**Question:** Type your name.

Jamie McDaniel

**Question:** Type your title.

Grants Administrator

**Question:** Type the submission date.

July 15, 2020



STATE OF IDAHO  
COUNTY OF ELMORE

The undersigned, RICH SYKES, representing the CITY OF MOUNTAIN HOME, 160 S 3<sup>RD</sup> E, MOUNTAIN HOME, IDAHO, hereby swear (affirm) that:

1. I am MAYOR of CITY OF MOUNTAIN HOME and thereby authorized to make these statements.
2. I have personal knowledge of the facts herein, and can testify completely thereto.
3. The purpose of this statement is to assure the Idaho Department of Commerce that the project will meet the CARES Act Criteria. Further guidance can be found here and here.
  - i. Expenses to facilitate distance learning, including technological improvements, in connection with school closings to enable compliance with COVID-19 precautions.
  - ii. Expenses to improve telework capabilities for public employees to enable compliance with COVID-19 public health precautions.

The City of Mountain Home will meet the CARES Act criteria by adding fiber into the north backbone of the city. This will fulfill a need stated under a public health emergency. It will include technological improvement, allow measures to facilitate distance learning, in connection with school closings; improve telework capabilities for public employees; and improve public safety. It will allow broadband speeds of up to 1,000 Mbps download and 1,000 Mbps upload symmetrical. It will also provide WiFi in three public parks within Mountain Home: Richard Aguirre Park, Stonetree Park and Legacy Park. It will allow users up to 100 people to simultaneously access minimum broadband speeds while maintaining social distancing.

Signature

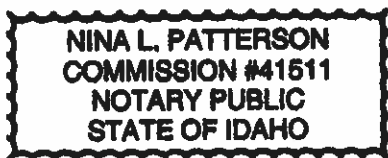
Date

SUBSCRIBED AND SWORN before me on this 13<sup>th</sup> day of June, 2020.

Notary Public for STATE of Idaho.

Residing at Mountain Home

Commission expires 3/2/2022



*City of Mountain Home, Idaho  
Broadband Policy*



*Adopted by City Council  
Effective  
October 10, 2018*

## **CITY OF MOUNTAIN HOME BROADBAND POLICY**

Affordable and robust broadband is essential for communities today. This policy addresses and establishes broadband service and infrastructure concerns while establishing a broadband policy for the City of Mountain Home with some short term goals, departmental responsibilities and level of performance expected of City employees.



**BROADBAND POLICY  
TABLE OF CONTENTS**

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Purpose	1
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Responsibility	1

**Purpose:**

The purpose of this document is to establish a broadband policy for the City of Mountain Home.

**Executive Summary:**

Fiber infrastructure is as important to communities as streets, electricity, water and wastewater. Network jacks are becoming as common as electrical outlets. When such essential networks are inoperable our communities, including businesses, schools, hospitals and local governments are compromised in their ability to function. Communities are advanced by universal access to affordable and dependable broadband access.

Fiber infrastructure and services affect economic growth. While our community is able to receive basic broadband services, we pay a higher rate for these basic services than some other communities. Prospects for either decreases in costs for services or improvements in service anytime in the foreseeable future are not evident. The business model followed by the incumbent broadband service providers precludes them from upgrading their redundant infrastructure or improving their services without increasing costs.

DSL and cable networks cannot offer the speeds required to operate some services required today by both businesses and residents. Such basic, essential services would include, but are not limited to, large file transfers or over the top video services. Businesses, local governments, and citizens all need affordable and fast access to information networks. Therefore, we find cities throughout the country taking an interest in fiber services and infrastructure.

**Policy:**

Fiber is all about sustaining the economic viability of the City and the City of Mountain Home feels that broadband is a basic and essential service that should be offered to every citizen of the City. Such services can be addressed and offered by the City implementing a new municipal fiber utility.

**Responsibility:**

The City of Mountain Home hereby tasks the following individuals below with performing a feasibility study regarding development of a working business model for consideration by the City Council.

1. A committee made up of the Mayor, City Clerk, City Treasurer, IT Manager and Fiber Manager, under the direct supervision of the Mayor, is assigned to complete this endeavor. Within the scope of their ability, the committee will devote the necessary time and energy to the creation of a feasibility study and business model for a City of Mountain Home Broadband Municipal Network. As long as the funds needed to resolve these immediate goals are available within the approved budgets, the City Council agrees that the Mayor may individually approve these expenditures from department budgets;

2. The City will partner with Entry Point Networks in pursuing the following deliverables;
  - a. A City of Mountain Home Municipal Fiber Network Feasibility Study;
  - b. A working business model;
  - c. A recommended next step or proof of concept.
3. The City Clerk together with the Mayor will be responsible for technical review of the feasibility study and business model while still maintaining their departmental priorities.

**This Policy was Approved and Adopted by the City Council on the 9<sup>th</sup> day of October, 2018, to be Effective as of October 10<sup>th</sup>, 2018, with the understanding that the policy is open to revision as the project evolves.**

RESOLUTION NO. 33-18

A RESOLUTION OF THE CITY OF MOUNTAIN HOME, IDAHO, APPROVING AND ADOPTING A BROADBAND POLICY FOR THE CITY OF MOUNTAIN HOME AND PROVIDING AN EFFECTIVE DATE.

WHEREAS, pursuant to Idaho Code § 50-301 the City of Mountain Home may exercise all powers and perform all functions of local self-government in city affairs as are not specifically prohibited by or in conflict with the general laws or the constitution of the State of Idaho, and,

WHEREAS, the City feels that fiber optic infrastructure is an essential and necessary infrastructure for the citizens of the City so that the citizens have broadband access, and,

WHEREAS, the Mayor and Council agree that it is in the best interest of the City and its citizens to adopt a written policy recognizing the importance of a fiber optic infrastructure for the citizens, and,

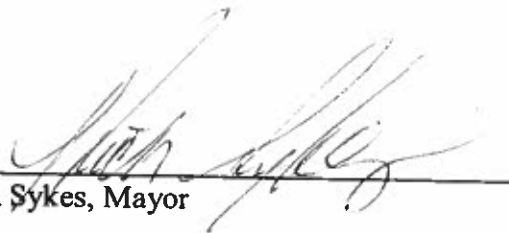
WHEREAS, the City Council and Mayor have reviewed the Broadband Policy and believe the proposed policy should be adopted, to be effective as of the 10<sup>th</sup> day of October, 2018, NOW, THEREFORE;

BE IT RESOLVED by the Mayor and Council of the City of Mountain Home, Idaho, as follows:


1. That the attached Broadband Policy is hereby approved and adopted as the broadband and fiber optic infrastructure policy for the City of Mountain Home, Idaho, effective the 10<sup>th</sup> day of October, 2018.

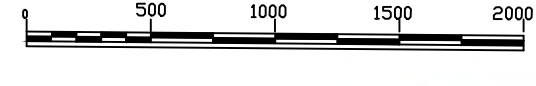
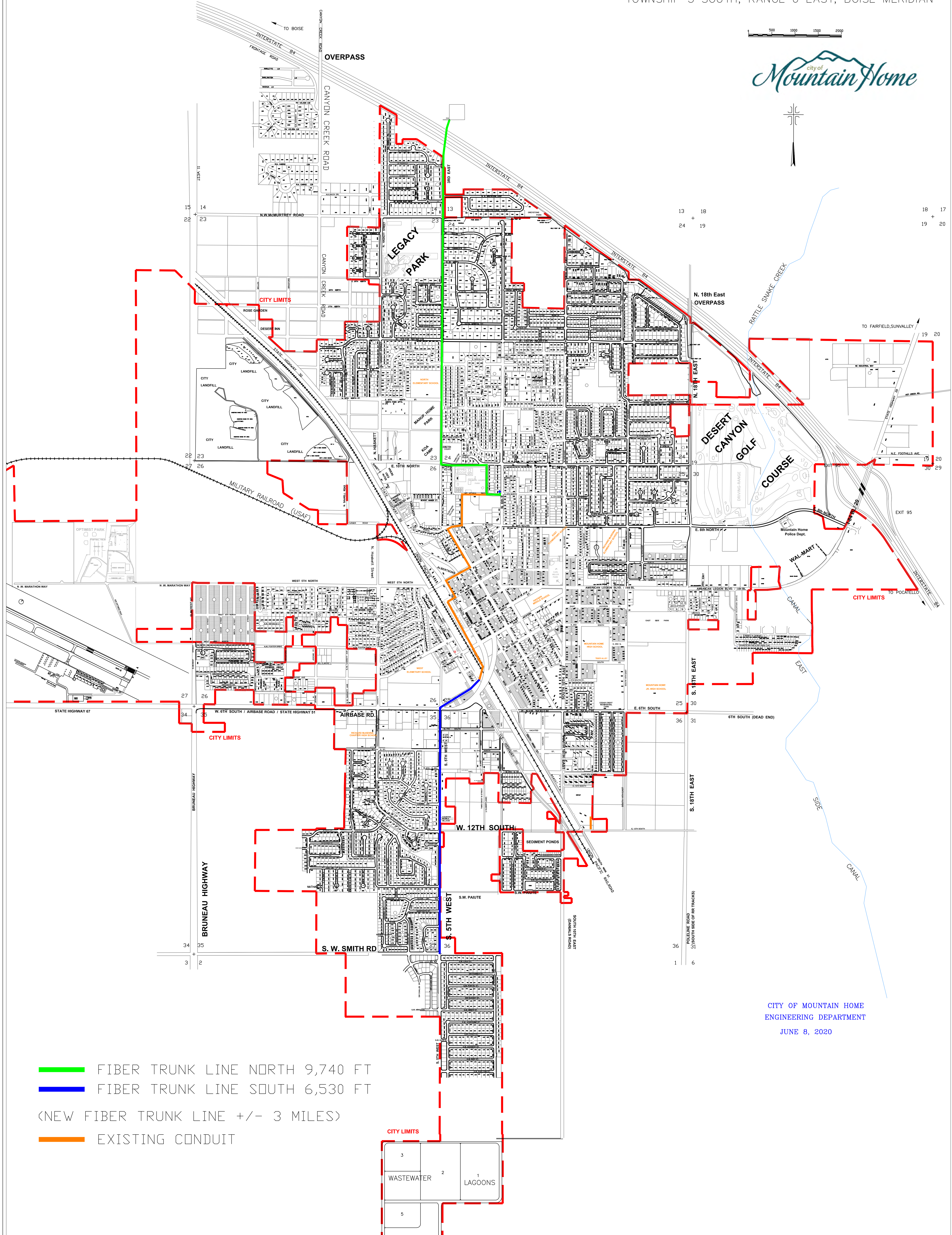
PASSED by the Council of the City of Mountain Home, Idaho and approved by the Mayor this 9<sup>th</sup> day of October, 2018.



  
\_\_\_\_\_  
Rich Sykes, Mayor

ATTEST:

  
\_\_\_\_\_  
Nina Patterson, City Clerk



CITY OF MOUNTAIN HOME  
ENGINEERING DEPARTMENT  
JUNE 8, 2020

- FIBER TRUNK LINE NORTH 9,740 FT
- FIBER TRUNK LINE SOUTH 6,530 FT
- (NEW FIBER TRUNK LINE +/- 3 MILES)
- EXISTING CONDUIT

SHEET 1 OF 1	060820	FIBER OPTIC TRUNK LINE PLAN	PROJECT NO.	CAD FILE	DRAWN BY: JKM	CHK'D BY:	SHEET TITLE:	MARK	DATE	DESCRIPTION
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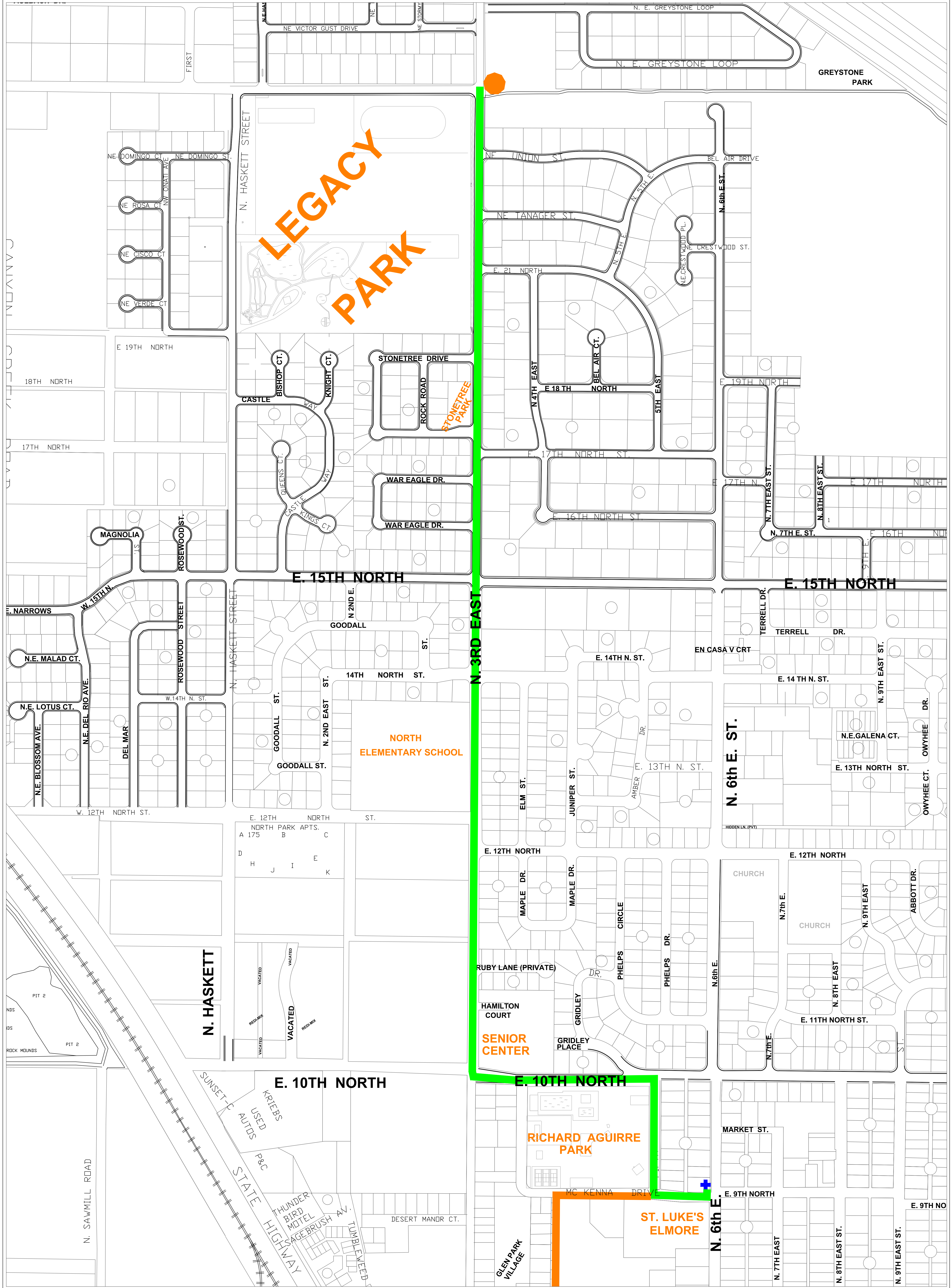
FIBER OPTIC TRUNK LINE PLAN  
CITY OF MOUNTAIN HOME  
MOUNTAIN HOME, IDAHO 83647

CONSULTANTS:



**Idaho CARES Act Broadband Grant Budget**

<b>Line Item</b>	<b>Grant Dollars</b>				<b>Total</b>
<b>Totals</b>					



- █ FIBER TRUNK LINE NORTH
- █ EXISTING CONDUIT
- BOOSTER STATION
- + FIBER HUB

SHEET 1 OF 1	071420	BROADBAND PROJECT GRANT	PROJECT NO.	CAD FILE	DRAWN BY: JKM	CHK'D BY:	SHEET TITLE
MARK	DATE	DESCRIPTION					

**BROADBAND PROJECT**  
 CITY OF MOUNTAIN HOME  
 MOUNTAIN HOME, IDAHO 83647





## 13.B.1 Executive Summary

Reliable internet connectivity is essential in the 21st century. Just as electricity enabled the first industrial revolution, fiber optic infrastructure is the foundation for the digital revolution. Since the residents and business owners in Mountain Home have been experiencing mediocre access to the internet for some time, Mountain Home's Mayor and City Council have made it a key priority of the City to establish local control of a City-run essential utility. The goals of the City for this project include the following:

The deployment of a fiber optic utility throughout the city is intended to meet critical service needs.

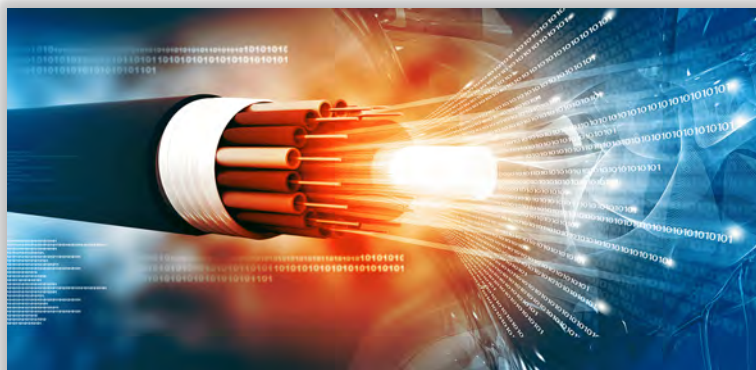
As such, the fiber optic infrastructure will be implemented as a public works project, and managed as a public utility.

- 1) **Lower the cost of internet access by 25% - 30% for the community.**
- 2) **Significantly increase the speed and reliability of internet access.**
- 3) **Increase competition and give residents multiple options for ISPs.**
- 4) **Build a state-of-the-art network that will improve economic development and foster innovation.**
- 5) **Leverage the network to improve the services provided in the city including public safety, transportation, healthcare, education, emergency communications, and new services that will become possible with advanced network infrastructure.**

The City is not trying to compete with the private sector. The endeavor simply involves the City building and operating the fiber infrastructure. This infrastructure will then be open to any service provider that seeks to offer services in Mountain Home. The City has adopted this model to achieve its goals because the plan involves nearly every priority of the City.

## 13.B.2 What is Fiber?

Fiber optic cable is an innovative type of signal delivery system. Instead of sending electrical signals over copper wire or radio waves transmitted through the air, fiber uses small strands of glass to send light signals over great distances. Fiber is not only the fastest way to send data, it's also stronger, more reliable, and harder to hack than cable, DSL, or fixed wireless. Fiber is not subject to interference like copper or wireless, so it won't matter if the weather gets bad or if everyone in the neighborhood is streaming at the same time.



## 13.B.3 How Fast is Fiber?

### FAST.

Not just fast.

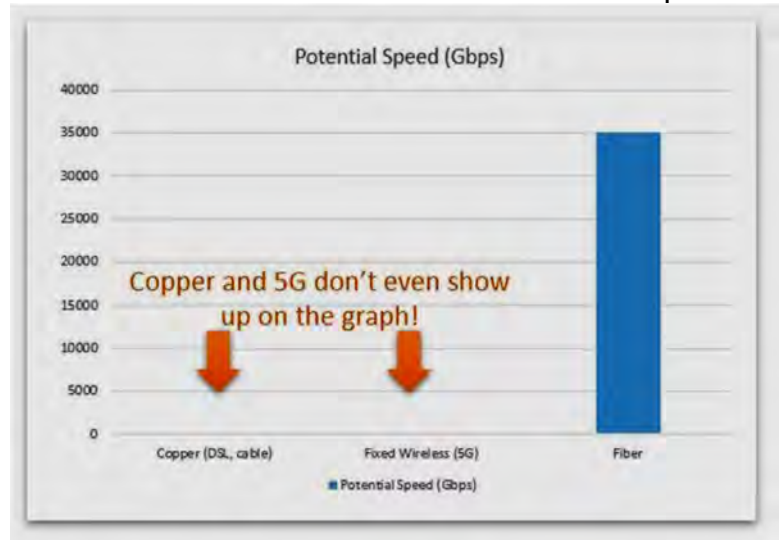
The fastest there is — **by far**.

**Graph 13.B.1** shows a comparison of recently tested 'maximum transmission speeds' (how fast each type of technology has tested in a technology in a lab).

DSL and Cable, as well as 5G, did not score high enough to show up on the graph in comparison to the Fiber.

Bandwidth demand based on modem speed was 120 Mbps in 2014. Bandwidth demand grows by a surprising amount each year. While a number of different media can satisfy current bandwidth requirements, only fiber can satisfy future demand requirements. In fact, fiber has another 2000x more capacity using "today's" technologies.

Graph 13.B.1

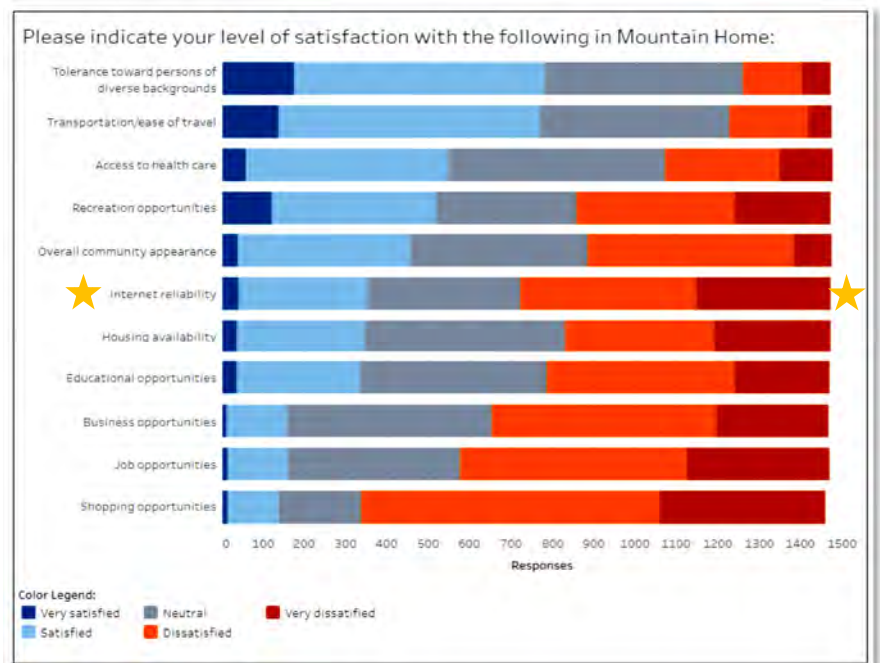


## 13.B.4 COMMUNITY INTEREST

Is there community support for this new City utility?

The results from the public survey conducted for this Comprehensive Plan update shows a strong relationship between the public's desire for increased and enhanced internet connectivity and the City's decision to implement a fiber utility (see graph on the right).

Additionally, **Map 13.B.1** on the next page illustrates the area where residents and businesses have expressed specific interest in learning more about, and/or even signing up, to be part of the City's fiber network utility (per a separate survey done for the purpose of the fiber project, via the fiber utility website).

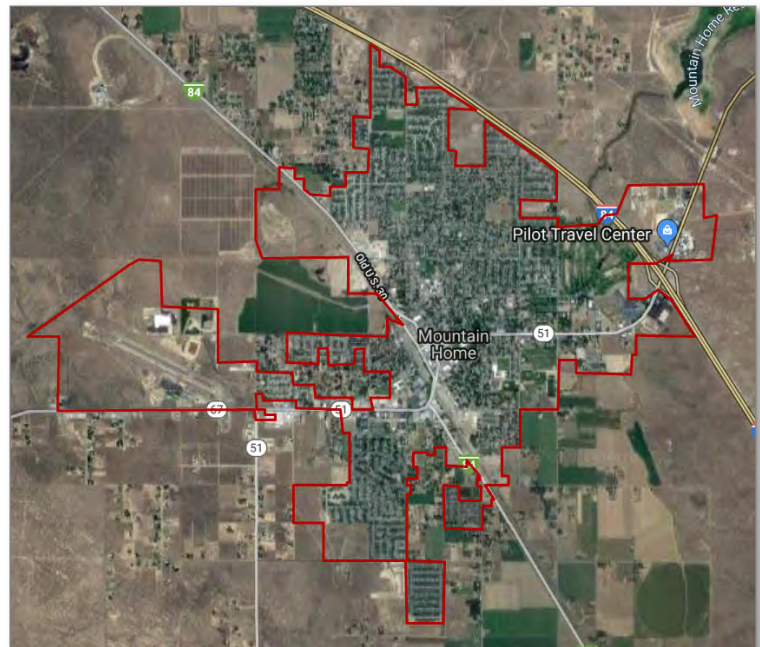


## 13.B.5 GOAL 1

**Successfully execute installation of fiber optic utility city-wide for the benefit of the community.**

- A. Prior to launch, establish Codes, Ordinances and Policies that will protect City and subscribers, and provide clear directives in deployment of and using the program.
- B. Develop systems at the City to support the functioning of the project and provide customers an avenue of quality service.
- C. Identify and engage potential project partners (Construction, Middle Mile, ISP).
- D. Create plan for construction and long-term financing
- E. City goal is to eventually deliver free WI-FI to all municipal parks and other public facilities.
- F. Create Community Engagement Plan and begin process of executing Plan.
- G. Deploy fiber optics as a utility throughout the city, starting in the highest demand areas.

**Map 13.B.1**



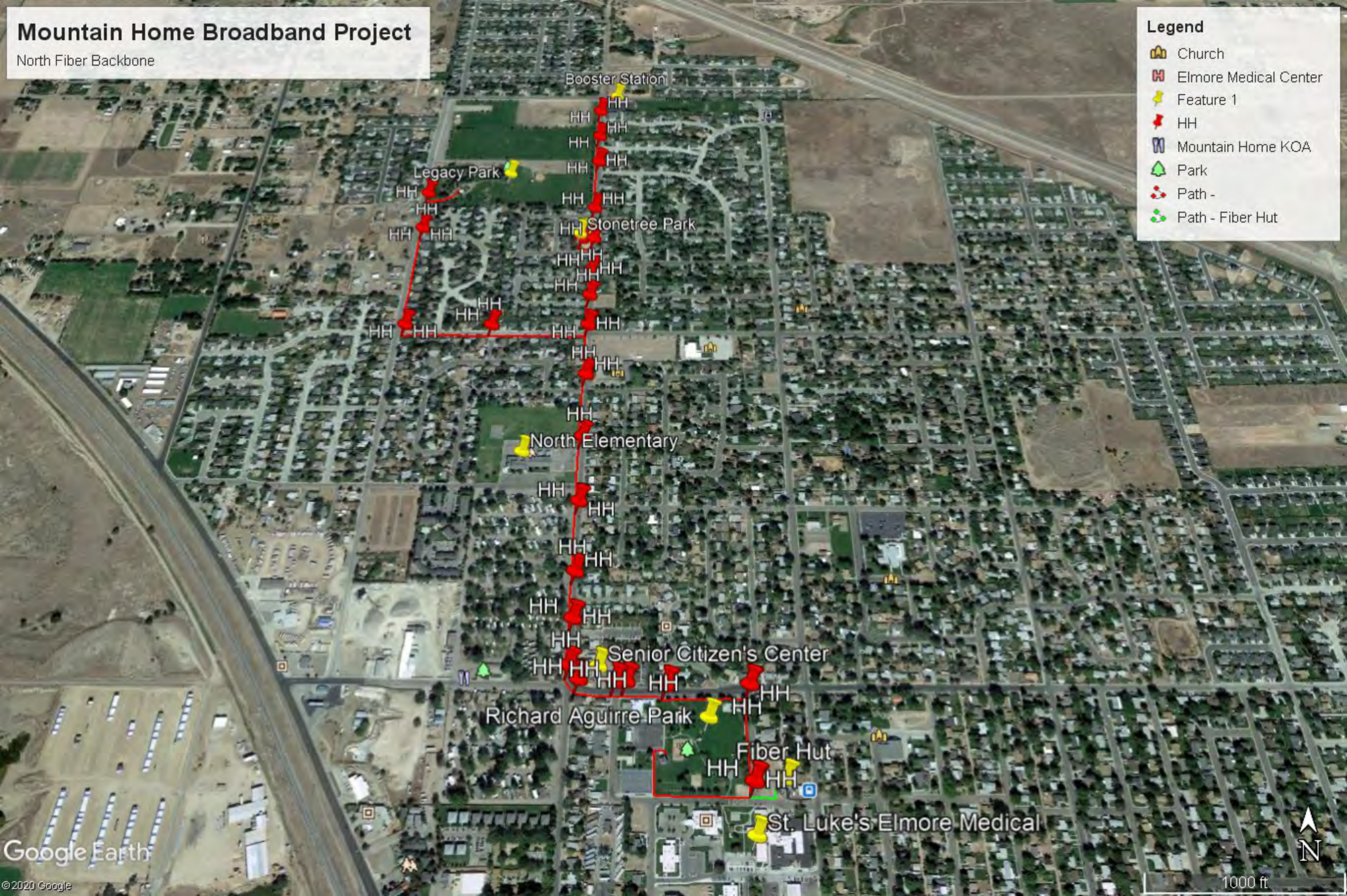
Map showing geographic areas from which public interest in the fiber utility has been expressed; by both potential residential and commercial users.

# Mountain Home Broadband Project

North Fiber Backbone

**Legend**

- Church
- Elmore Medical Center
- Feature 1
- HH
- Mountain Home KOA
- Park
- Path -
- Path - Fiber Hut



# LEGACY PARK

Legacy Park is one of Mtn. Home's finest features! What was once an old gravel pit has been transformed and reconstructed into an exquisite 40-acre park enjoyed by all. Legacy Park features two gazebo areas, a softball field, basketball courts, soccer fields, a fishing pond, playground equipment, and multiple active and passive open areas.



**Overlooking the Softball Field**



**Legacy offers a beautiful pond area with ducks and fishing**



# LEGACY PARK



Legacy soccer Fields see over 1000 participants per year in our Parks and Rec program



Gazebo area



# RICHARD AGUIRRE PARK

Richard Aguirre Park is a 12-acre centralized park within Mountain Home. It features the city swimming and wading pools, tennis and volleyball courts, a brand new skatepark, horseshoe pits, as well as numerous gazebos and playground equipment. This park is a one-stop play area for all ages and is one of the most frequented parks within Mountain Home.



Playground Area



Mountain Home Swimming Pool

# RICHARD AGUIRRE PARK



Richard Aguirre Toddler Park



New Skatepark will open August 2020



Horseshoe Pits & Tennis Courts



# STONETREE PARK

Stonetree Park is one of Mountain Home's neighborhood parks, near North Elementary. It features a gazebo area, sand volleyball, a playground, and a large green space for play.





# Elmore County Board of Commissioners

Phone (208) 587-2129 Ext. 270

ELMORE COUNTY COURTHOUSE  
150 South 4th East Suite #3  
Mountain Home, Idaho 83647

Fax (208) 587-2159

**Albert Hofer**

(208) 599-1620

**Wesley R. Wootan**

(208) 599-3131

**Franklin L. Corbus**

(208) 599-1294

July 10, 2020

Idaho Department of Commerce  
Grant Selection Committee  
700 W State Street  
PO Box 83720  
Boise, Idaho 83720-0093

Re: Letter of Support- Mountain Home Broadband Backbone Project

To Whom it May Concern:

The Elmore County Commissioners are pleased to support the City of Mountain Home's application for funding for the construction of the backbone for the City of Mountain Home's Broadband Project. The proposed project would build the current north route of the network backbone within Mountain Home. This project will include improving opportunities for distance learning, telework and provide improved safety opportunities for residents. Access to WiFi for students, community members and tourists recreating or visiting three parks within Mountain Home will be an asset needed in this ever-connected world. This grant will also allow the city to improve services provided to the residents by way of public safety, transportation, healthcare, education, emergency communications, and new services that will become available by leveraging this advanced network. The Elmore County Commissioners fully support this project and anticipate a great result for our community with this broadband funding request.

**ELMORE COUNTY**, a political subdivision of the State of Idaho

By: \_\_\_\_\_

Albert Hofer, Chairman

By: \_\_\_\_\_

Wesley R. Wootan, Commissioner

By: \_\_\_\_\_

Franklin L. Corbus, Commissioner





**University of Idaho**  
**Extension**

July 13, 2020

Tom Kealey - Director  
Idaho Department of Commerce  
PO Box 83720  
Boise, Idaho 83720-0093

**Elmore County**

535 E. Jackson  
Mountain Home, ID 83647  
Phone: 208-587-2136 ext 509  
Fax: 208-587-2137  
elmore@uidaho.edu

Dear Director Kealey,

I write this letter on behalf of the local University of Idaho Extension Elmore County Office in support of the City of Mountain Home for the State of Idaho Public Broadband Grant application for their Mountain Home Broadband Project. We strongly and adamantly support this grant application and the specific focus for improving the functionality of broadband within Mountain Home, Idaho. More importantly, this helps our youth gain access to high speed internet connectivity fulfilling educational and program ease.

As a local government entity, the City of Mountain Home Idaho is striving to increase distance learning, support existing business growth, create job opportunities, increase public safety, enhance economic opportunities and improve the community as a whole in a sustainable way.

The City of Mountain Home has gone to great lengths in partnering with local entities and businesses to support and create the Mountain Home Broadband Project. Public health and safety is a top priority for this project as well as creating opportunities to facilitate distance learning, provide telework opportunities and create and retain local jobs for our community and those wishing to relocate here.

Through this letter, we acknowledge the City of Mountain Home, Idaho has specific goals for the future of Mountain Home, Idaho by investing these funds in creating a broadband network for the citizens of Mountain Home. We look forward to working with the City of Mountain Home on the Mountain Home Broadband Project.

Sincerely,

Brad Stokes  
Assistant Professor – Cropping Systems/Horticulture/Entomology  
UI Extension Elmore County Educator  
(208) 590-2286  
[bstokes@uidaho.edu](mailto:bstokes@uidaho.edu)  
535 E Jackson St.  
Mountain Home, Idaho 83647



---

July 13, 2020

Tom Kealey, Director  
Idaho Department of Commerce  
PO Box 83720  
Boise, Idaho 83720-0093

Re: Maintenance of Broadband Infrastructure

Dear Director Kealey,

The Mountain Home Fiber Department currently provides year around maintenance to the City's Fiber network. This includes the current fiber hut located at 920 N 5<sup>th</sup> E Street. The City has also currently installed five miles conduit, with three and half miles of fiber installed.

The City of Mountain Home Fiber Department is committed to keeping the fiber facilities and infrastructure in excellent condition throughout the year and maintain all improvements added. As the city, we strive to create distance learning opportunities, telework opportunities and to improve the public safety organizations within Mountain Home. This request will add WiFi in three parks within Mountain Home so students can "plug-in", employees can work, and physical distancing can continue while accessing this new WiFi service. We believe adding to our broadband backbone will help us achieve our goals as a community and will attract more users and provide extended opportunities for connectedness.

Thank you for your consideration to fund these broadband improvements to the City of Mountain Home.

Sincerely,

A handwritten signature in black ink that reads "Kyle Land". The signature is written in a cursive style with a long vertical line extending upwards from the end of the name.

Kyle Land  
Fiber Optics Foreman



---

July 13, 2020

Tom Kealey, Director  
Idaho Department of Commerce  
PO Box 83720  
Boise, Idaho 83720-0093

Dear Director Kealey,

This letter is in support of the Mountain Home Broadband Project and the City's application for the State of Idaho Public Broadband Grant: Public Safety and Local Government. This project has been discussed and is fully supported by our City Council.

Reliable internet connectivity is essential in the 21<sup>st</sup> century. Just as electricity enables the first industrial revolution, fiber optic infrastructure is the foundation for the digital revolution. Residents in our city have been paying way too much for mediocre access to the internet. The City of Mountain Home has made it a key priority of the city to build and establish local control of this essential infrastructure. The goals of the city for this project include the following:

1. Lower the cost of the internet access by 25% - 30% for the residents and businesses.
2. Significantly increase the speed and reliability of internet access up to 1,000 x 1,000 Mbps.
3. Increase competition and give residents multiple options for ISP's on demand in real time.
4. Build a state-of-the-art network that will improve economic development and foster innovation.
5. Leverage the network to improve the services provided in the city including public safety, transportation, healthcare, education, emergency communications, and new services that will become possible with advanced network infrastructure.

The city is not trying to compete with the private sector. We will simply build and operate the fiber optic infrastructure. This infrastructure will be open to any service provider that seeks to offer services in the city. We have adopted this open model to achieve its goals because the network will touch nearly everything that is important for the city and its citizens.

Thank you for your consideration to fund this broadband request from the City of Mountain Home.

Sincerely,

A handwritten signature in blue ink, appearing to read "Rich Sykes", is written over a light blue horizontal line.

Rich Sykes  
Mayor of Mountain Home

*Mountain Home*  
**Chamber of Commerce**  
*Bringing Business and Community Together*  
205 North 3rd East, Mountain Home, ID 83647  
208-587-4334  
[www.mountainhomechamber.com](http://www.mountainhomechamber.com)  
[chamber@mountainhomechamber.com](mailto:chamber@mountainhomechamber.com)

July 13, 2020

Tom Kealey, Director  
Idaho Department of Commerce  
PO Box 83720  
Boise, Idaho 83720-0093

Dear Director Kealey,

The Mountain Home Chamber of Commerce is writing this letter in support of the City of Mountain Home's application for the State of Idaho Public Broadband Grant. We strongly support the intended use of the grant money for the Mountain Home Broadband Project.

The City of Mountain Home is working to attract new business, improve public safety opportunities through telehealth, distance learning and increase job opportunities that would improve the entire community of Mountain Home. A 2018 Economic Impact Assessment from Boise State University has projected a positive impact for Mountain Home in income, safety, and health opportunities from revitalizing our downtown area, which includes adding broadband opportunities within our community.

We believe the funding from the State of Idaho Public Broadband Grant is investing in our future business growth, the safety of our community and creating a better quality of life for all citizens of Mountain Home. Please consider Mountain Home for this grant opportunity to complement and enhance the overall well-being of our community and citizens who reside here.

Sincerely,



Julie Davis  
Executive Director  
Mountain Home Chamber of Commerce



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July 13, 2020

Tom Kealey, Director  
Idaho Department of Commerce  
PO Box 83720  
Boise, Idaho 83720-0093

Re: Maintenance of Broadband Infrastructure

Dear Director Kealey,

The Mountain Home Fiber Department currently provides year around maintenance to the City's Fiber network. This includes the current fiber hut located at 920 N 5<sup>th</sup> E Street. The City has also currently installed five miles conduit, with three and half miles of fiber installed.

The City of Mountain Home Fiber Department is committed to keeping the fiber facilities and infrastructure in excellent condition throughout the year and maintain all improvements added. As the city, we strive to create distance learning opportunities, telework opportunities and to improve the public safety organizations within Mountain Home. This request will add WiFi in three parks within Mountain Home so students can "plug-in", employees can work, and physical distancing can continue while accessing this new WiFi service. We believe adding to our broadband backbone will help us achieve our goals as a community and will attract more users and provide extended opportunities for connectedness.

Thank you for your consideration to fund these broadband improvements to the City of Mountain Home.

Sincerely,

A handwritten signature in black ink that reads "Kyle Land". The signature is written in a cursive style with a long vertical line extending from the end of the name.

Kyle Land  
Fiber Optics Foreman





# MOUNTAIN HOME POLICE DEPARTMENT

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2775 E. 8<sup>th</sup> North Street, Mountain Home, ID 83647  
Phone 208.587.2101 • Fax 208.587.0180 • [www.mhpd.net](http://www.mhpd.net)

**Chief Scott Conner**

July 13, 2020

Tom Kealey, Director  
Idaho Department of Commerce  
PO Box 83720  
Boise, Idaho 83720-0093

Dear Director Kealey,

I am writing to express the Mountain Home Police Department's support in the application for funding needed to build the Mountain Home Broadband Project through the State of Idaho Public Broadband Grant.

The City of Mountain Home is in dire need of broadband to meet the citizens' needs of telehealth, distance learning and enhance safety aspects of having an operable broadband network within the city. To continue forward with Mountain Home's commitment to create reliable internet connectivity, the north broadband backbone of the city needs to be completed. In addition to safety efforts for our families, we believe that strong partnerships between area businesses, schools, churches, services, and neighborhoods are key to the success of our community. Safe connectivity and access between these institutions will ensure our community prospers now and into the future. This community is part of an overall effort to encourage distance learning, telehealth and provide our citizens with the best broadband available to reach those goals.

Mountain Home Police Department wishes to promote service that has previously been underserved within our city. The Mountain Home Broadband Project will do just that; it will help to safely connect our city, create economic opportunities, and bring this community into the 21<sup>st</sup> century.

Thank you for your time and consideration. If there is anything else that the Mountain Home Police Department can do, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Scott Conner".

Scott Conner  
Chief of Police



**William Lamb**  
Library Director  
email [wilamb@mountain-home.us](mailto:wilamb@mountain-home.us)  
phone 208.587.4716  
fax 208.587.6645

July 13, 2020

Tom Kealey - Director  
Idaho Department of Commerce  
PO Box 83720  
Boise, Idaho 83720-0093

Dear Director Kealey,

I write this letter on behalf of the Mountain Home Public Library in support of the State of Idaho Public Broadband Grant application for the Mountain Home Broadband Project. We strongly and passionately support this grant application and the specific focus for improving the functionality of broadband within Mountain Home, Idaho. Most importantly, this helps our youth gain access to high speed internet connectivity providing educational and program improvement.

The City of Mountain Home is striving to create and retain local jobs and focus on outcomes including distance learning, support existing business growth, create job opportunities, telehealth, public safety, enhance economic opportunities and improve the community as a whole. We acknowledge the City of Mountain Home has specific goals for the future of Mountain Home by investing these funds in creating a broadband backbone network for Mountain Home.

The Mountain Home Public Library supports and appreciates the efforts of the City of Mountain Home to provide educational enhancements to our city for all students and citizens. Please consider Mountain Home for this grant opportunity.

Additionally, I can tell you from personal observations that we constantly see many citizens using our public computer lab for enhanced employment searches and educational opportunities for their children. They come to the Library as they are unable to afford, or find, quality services at their homes. I have little doubt that the approval of this grant opportunity for the City of Mountain Home Broadband Project will have a significant impact on the quality of life of our citizens.

Sincerely,

William Lamb, Library Director  
Mountain Home Public Library



July 13, 2020

Tom Kealey, Director  
Idaho Department of Commerce  
PO Box 83720  
Boise, Idaho 83720-0093

Dear Director Kealey,

I am writing to express St. Luke's Community Health's support in the application for funding needed to build the Mountain Home Broadband Project through the State of Idaho Public Broadband Grant.

The City of Mountain Home is developing a broadband system to meet the citizens' needs of telehealth, distance learning and enhanced safety aspects by developing an operable broadband network within the city. To continue forward with Mountain Home's commitment to create reliable internet connectivity, the north broadband backbone of the city needs to be completed through this grant request. In addition to health and safety for our families, we believe strong partnerships between area businesses, schools and services are crucial to the success of our community. The City of Mountain Home is part of an overall effort to encourage distance learning and telehealth, and is aiming to provide our citizens with the best broadband available to reach those goals.

St. Luke's mission is to improve the health of people in the communities we serve, and building strong partnerships is one way we strive to achieve that mission, working better together. We support the efforts of the City of Mountain Home, and their request for funding the broadband project. We thank you for your time and consideration in supporting our community.

Sincerely,

A handwritten signature in black ink that reads "Angie Gribble".

Angie Gribble  
Community Health Director  
St. Luke's Health System



**MOUNTAIN HOME SCHOOL DISTRICT 193**  
470 North 3<sup>rd</sup> East P.O. Box 1390 Mountain Home, Idaho 83647-1390

James G. Gilbert, Superintendent  
(208) 587-2580  
FAX (208) 587-9896  
[www.mtnhomesd.org](http://www.mtnhomesd.org)

July 10, 2020

City of Mountain Home  
PO Box 10  
Mountain Home, ID 83647

Re: Letter of Support- Mountain Home Broadband Project

To Whom It May Concern:

I am writing this letter of support for the Mountain Home Broadband Project funding through the State of Idaho Public Broadband Grant. This grant will provide distance learning opportunities for students within the Mountain Home School District and opportunities for higher education for community members. This project will go right by our elementary school, North Elementary, and provide an opportunity for this underserved school to utilize this service.

The City of Mountain Home currently has inadequate speeds for those who wish to gain access to on-line education. The broadband network the city will build will significantly increase the speed and reliability of internet access up to 1,000 x 1,000 Mbps; speeds we do not have access to now. This project will also create WiFi in three parks within Mountain Home and allow students a place to go should they not have internet access in their homes. Many students within School District #193 are at a disadvantage compared to other districts because of our lacking broadband infrastructure here in Mountain Home. This project will build a state-of-the-art network that will improve economic development and foster innovation for our students. This network will also improve the services provided in the city including public safety, healthcare, education, telehealth, and emergency communications.

The Mountain Home School District supports and appreciates the efforts of the City of Mountain Home to provide educational enhancements to our City for all students and citizens. If I can be of further assistance in the matter, please feel free to contact me at (208) 587-2580.

Sincerely,

James G. Gilbert  
Superintendent  
Mountain Home School District #193

# State of Idaho Public Broadband Grant Application: Households

Applicant	Beth Ineck
Applicant ID	APP-004309
Company Name	Nampa
Recipient Address	Nampa 411 3rd St S Nampa, ID 83651
Phone	(208) 465-2200
Email	ineckb@cityofnampa.us
Amount Requested	\$48,385.00
Status	Submitted
Funded	<input type="checkbox"/>

Application Title: CANYON COUNTY PUBLIC BROADBAND PROJECT

## Applicant Information

**NOTICE: Grant applications, challenges, and responses to challenges will be posted to the Idaho Department of Commerce website**

### Purpose:

#### 1. Program Description

The CARES Act funding received by the State of Idaho will fund projects across the state that create and retain local jobs and result in purposeful outcomes, including distance learning, telehealth public safety, commerce, and overall well-being. This CFAC Broadband Grant initiative grant program (the “Program for Households”) is designed to meet the CARES Act criteria, and help Idaho rebound from the COVID-19 public health emergency. Approximately 70% of the \$50 million received by the Idaho Department of Commerce will be allocated to this program aimed at households that lack access to broadband.

**• Projects must be completed and grant funds requested and dispersed before December 15th, 2020.**

**Question:** Contact information of applicant: Name Title Mailing Address Email Phone

Name: Jeff Barnes, PE Title: Deputy Public Works Director Mailing Address: 411 3rd Street  
City/Zip: Nampa, ID 83651 Email: barnesj@cityofnampa.us Phone: 208.468.5521

**Question:** List the cities/communities where the project(s) will take place.

Canyon County and City of Nampa

**Question:** Enter the zip code(s) where the project will take place.

83651, 83686

**Question:** Enter name and title of designated grant administrator

Name and Title: Lauren Locklear, Contract Administrator

**Question:** Enter the email of the designated grant administrator

locklearl@cityofnampa.us

**Question:** Enter the phone number of the designated grant administrator

Phone Number: 208.565.5274

## Project Requirements

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### Eligible Projects

Projects must meet the following eligibility criteria: The project must:

- Be infrastructure investment, associated equipment, and accessories related to broadband as defined by the FCC: speeds of 25 Mbps download and 3 Mbps upload.
- Meet the CARES Act criteria, which is designed to address key areas of public health and safety by improving opportunities to telework, facilitate distance learning, and improve public safety
- Be a project that serves underbuilt areas and does not overbuild existing broadband service. Underbuilt areas are defined as locations where less than fifty percent (50%) of households in the project area have access to broadband service.
- Include only new broadband service to be installed, owned, and operated by for-profit companies, or membership owned cooperative corporations as defined in [Idaho Code Title 30, Chapter 30](#) that provide broadband services to the public.
- Provide broadband service within the applicant's proposed project area.
- Be completed, operable, paid for, and submitted to the Idaho Department of Commerce for payment no later than December 15, 2020.
- Include broadband infrastructure and equipment costs meeting CARES Act criteria. Satellite service is not eligible for grant award.

**Question:** Does your project meet the CARES Act criteria?

Yes

No

**Question:** Does your project provide a minimum of 25 Mbps Download and 3 Mbps Upload as outlined by the CFAC Committee Recommendation?

Yes

No

**Question:** Does your project provide service to areas where less than 50% of households in the project area has broadband as outlined by the CFAC Committee Recommendation?

Yes

No

**Question:** Include only new broadband service to be installed, owned, and operated by for-profit companies, or membership owned cooperative corporations as defined Idaho Code Title 30, Chapter 30 that provide broadband services to the services to the public.

Yes

No

**Question:** I understand that the State of Idaho will provide no funding and have no obligations for projects that fail to be completed by December 15, 2020.

Yes

No

## Scored Criteria

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**Question:** Provide an overview of the project including why the project is important and will address broadband needs of the community.

This community has been underserved for many years with very low internet speeds available to them. As more and more residents have the need to school from home, utilize telehealth, work from home and utilize the internet for basic daily information and entertainment needs, the access to higher broadband speeds and reliability are critical. This project will provide reliable service up to 30 meg download speeds to these residents and will not only improve the lives of the families living here but strengthen the economy for the city of Nampa.

### SCOPE OF WORK

The following Scope of Work has been proposed based on grant requirements and ISP

coordination.

#### Task 1 – Grant Administration

Sparklight will manage the project and coordinate grant administration requirements with the City of Nampa and Canyon County.

#### Task 2 – Project Permitting

Sparklight, partner ISP, will complete and pay for required permits for mounting to existing tower.

#### Task 3 – Construction Labor, Equipment, and Materials

Sparklight, partner ISP, will furnish and install wireless broadband equipment.

#### Task 4 – Project Validation

The City of Nampa will validate system operation and project closeout.

### INTERNET SERVICE PROVIDERS

The City has partnered and negotiated project support from Sparklight, an Internet Service Providers (ISP).

**Question:** Is your project in an area where 50% of households is in an unserved area?

Yes

No

**Question:** Is your project in an area where more than 50% of households is in an underserved area?

Yes

No

**Question:** Is the project in a town/city/municipality of less than 3,000 people?

Yes

No

**Question:** How many households may receive broadband service because of this project?

1188.00

**Question:** Does the project address a need as identified in a local or regional broadband plan? If yes, please describe.

No. A broadband plan for the associated community has not been developed.

## Additional Requirements

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Upload Supporting Documents for scope of project including maps, site plans, studies, or photographs, demonstrating the location of the project.

**Project Attachment Templates:**

[CARES Act Certification](#)

[Grant Budget Template](#)

[Project Schedule Form](#)

[Letters of Support/Community match template](#)

**Question:** Estimated total project cost?

48385.00

**Question:** List the underserved and unserved community facilities (schools, libraries, government offices, hospitals, public safety, etc.) within the proposed project area.

The underserved and unserved community facilities within proposed project area include: • Lakevue Elementary School • Valivue Middle School • Lake Lowell Park • Midway Park • Mallard Park

**Question:** What is the average cost per household of new broadband service based on this project cost?

\$40.73 per household.

**Question:** What is the maximum broadband speed that will be provided by the project?

30 Mbps download and 3 Mbps upload.

**Question:** Are permits, permissions, rights of way and zoning requirements readily available in order for the project to be completed and paid for by December 15, 2020?

Permits, permission, and zoning requirements are accessible in order for the project to be completed and paid for by December 15, 2020. Sparklight has discussed and negotiated all applicable permits supporting communications infrastructure installation.

**Question:** If answered no in previous question, please describe. If the project does not require any of the above answer N/A.

Permits will be in place prior to construction.

**Question:** Describe how the project will be administered, audited for completion, and accounting performed.

Sparklight will notify a designated city official when the project has been completed and addresses have been entered into the billing system. At that time, copies of all invoices related to the project will be provided to the City for review and reimbursement from Grant funds.

**Question:** Include any other information regarding why your project should be considered for funding.

Idaho is in need of more broadband capacity, particularly in its rural and more remote areas.

There has been a newly expanded need for distance education, remote work and telehealth needs that has been amplified as a result of the COVID-19 pandemic. Now more than ever, people need fast, reliable internet service to their homes. This rural area in Nampa has been underserved for many years with unreliable internet access and speeds as low as 5 meg service. Sparklight has been working to find a solution for the residents in order to bring our services into the area for several years. Due to the location of these homes, the remoteness of the area, and several barriers such as canal crossings, a traditional build of fiber/coax is extremely expensive and has not met our return on investment models. Our new fixed wireless product is a great solution for a community such as this.

**Question:** Upload Supporting Documents for scope of project including maps, site plans, studies, or photographs, demonstrating the location of the project.

[Question 26 Sparklight Nampa Wireless Project.pdf](#) (7/15/2020 12:17 PM)

**Question:** Upload the completed Grant Budget Template for the project that outlines the various costs.

[Question 27 Grant Budget.pdf](#) (7/15/2020 12:17 PM)

**Question:** Complete the Project Schedule Form

[Question 28 Project Schedule Form.pdf](#) (7/15/2020 12:19 PM)

**Question:** Include any Letters of Support or Community Match from the community.

[Question 29 Letter of Support.pdf](#) (7/15/2020 12:20 PM)

**Question:** Provide a copy of your Community Broadband Plan if applicable.

**No Attachments**

**Question:** Provide a notarized CARES Act Certification that this project meets the CARES Act criteria.

[Question 31 CARES Act Certification.pdf](#) (7/15/2020 12:21 PM)

**Question:** Provide commitments from community anchor institutions or public safety networks which will utilize your service if the project is funded.

[Question 32 Nampa Police Department Commitment Letter.pdf](#) (7/15/2020 12:26 PM)

**Question:** Map of the project area demonstrating the insufficient availability of broadband service (25/3Mbps) in the proposed service area where less than 50% of households have access to broadband.

[Question 33 Map 1.pdf](#) (7/15/2020 12:24 PM)

**Question:** Map of the project area which includes the number of households served, the broadband speeds provided, and the technology used to provide that service.

[Question 34 Map 2.pdf](#) (7/15/2020 12:23 PM)

## Signature

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Your identity has been authenticated through the login process with a unique email address and password available only to you. You agree that by typing your name, title and date below, you are electronically signing the application. By electronically signing the application, you acknowledge and represent that you understand and accept all the terms and conditions stated within the application and declare that the information provided is true and that the documents you are submitting in support of your application are genuine and have not been altered in any way.

**Question:** Type your name.

Beth Ineck

**Question:** Type your title.

Economic Development Director

**Question:** Type the submission date.

7/15/2020



**Idaho CARES Act Broadband Grant Budget**

<b>Line Item</b>	<b>Grant Dollars</b>				<b>Total</b>
<b>Totals</b>					





2101 E. Karcher Rd.  
Nampa, ID 83687  
208-455-5555

July 15<sup>th</sup>, 2020

City of Nampa Public Works Department  
500 12<sup>th</sup> Avenue South  
Nampa, Idaho 83651

RE: State of Idaho Broadband Grant – Letter of Support

Dear Jeff Barnes,

I am pleased to confirm that Sparklight, Internet Service Provider, is a partner for the State of Idaho Broadband Grant application for Households. We have confirmed contractor staff availability to ensure the project meets the December 15<sup>th</sup>, 2020 completion date. Sparklight will manage the procurement and installation of broadband equipment.

Sparklight supports the project intent to facilitate telework and distance learning by providing broadband access in Canyon County and City of Nampa thereby improving public safety in compliance with COVID-19 public health precautions.

Sincerely,

A handwritten signature in blue ink that reads "Juli Blanda".

Juli Blanda  
Vice President, West Division - Sparklight

Date July 14, 2020



July 15<sup>th</sup>, 2020


State of Idaho Broadband Grant  
CARES Act Certification

STATE OF IDAHO  
COUNTY OF CANYON

The undersigned, Jeff Barnes, representing the City of Nampa, 411 3<sup>rd</sup> St S, Nampa, ID 83651, Idaho, hereby swear (affirm) that:

1. I am the Deputy Public Works Director of the City of Nampa and thereby authorized to make these statements.
2. I have personal knowledge of the facts herein, and can testify completely thereto.
3. The purpose of this statement is to assure the Idaho Department of Commerce that the project will meet the CARES Act Criteria. Further guidance can be found [here](#) and [here](#).
  - i. Expenses to facilitate distance learning, including technological improvements, in connection with school closings to enable compliance with COVID-19 precautions.
  - ii. Expenses to improve telework capabilities for public employees to enable compliance with COVID-19 public health precautions.

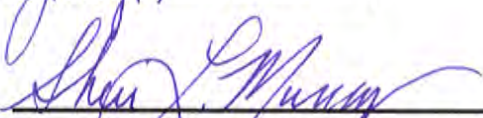
The City of Nampa project will facilitate telework and distance learning by providing public broadband access at the Lakeview Park thereby improving public safety in compliance with COVID-19 public health precautions.

  
 \_\_\_\_\_  
 Signature

7/14/20  
 \_\_\_\_\_  
 Date

SUBSCRIBED AND SWORN before me on this 14<sup>th</sup> day of July, 2020



  
 \_\_\_\_\_  
 Notary Public for STATE (Idaho)  
 Residing at Meridian, ID  
 Commission expires 10-26-24



**NAMPA POLICE DEPARTMENT**  
820 2ND STREET SOUTH • NAMPA, IDAHO 83651

**CURT SHANKEL**  
CAPTAIN

**JOE HUFF**  
CHIEF OF POLICE

**BRAD DANIELS**  
CAPTAIN

July 15, 2020

City of Nampa Public Works Department  
500 12<sup>th</sup> Avenue South  
Nampa, Idaho 83651

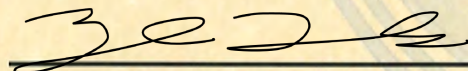
RE: State of Idaho Broadband Grant – Letter of Support

Dear Jeff Barnes,

I am pleased to confirm that the Nampa Police Department is in full support of the State of Idaho Broadband Grant application for Public Safety and Local Government. The Nampa Police Department will be a secondary user of the broadband service for public safety and enforcement applications.

The Nampa Police Department supports the project intent to facilitate telework and distance learning by providing public broadband access at the Lakeview Park thereby improving public safety in compliance with COVID-19 public health precautions.

Sincerely,



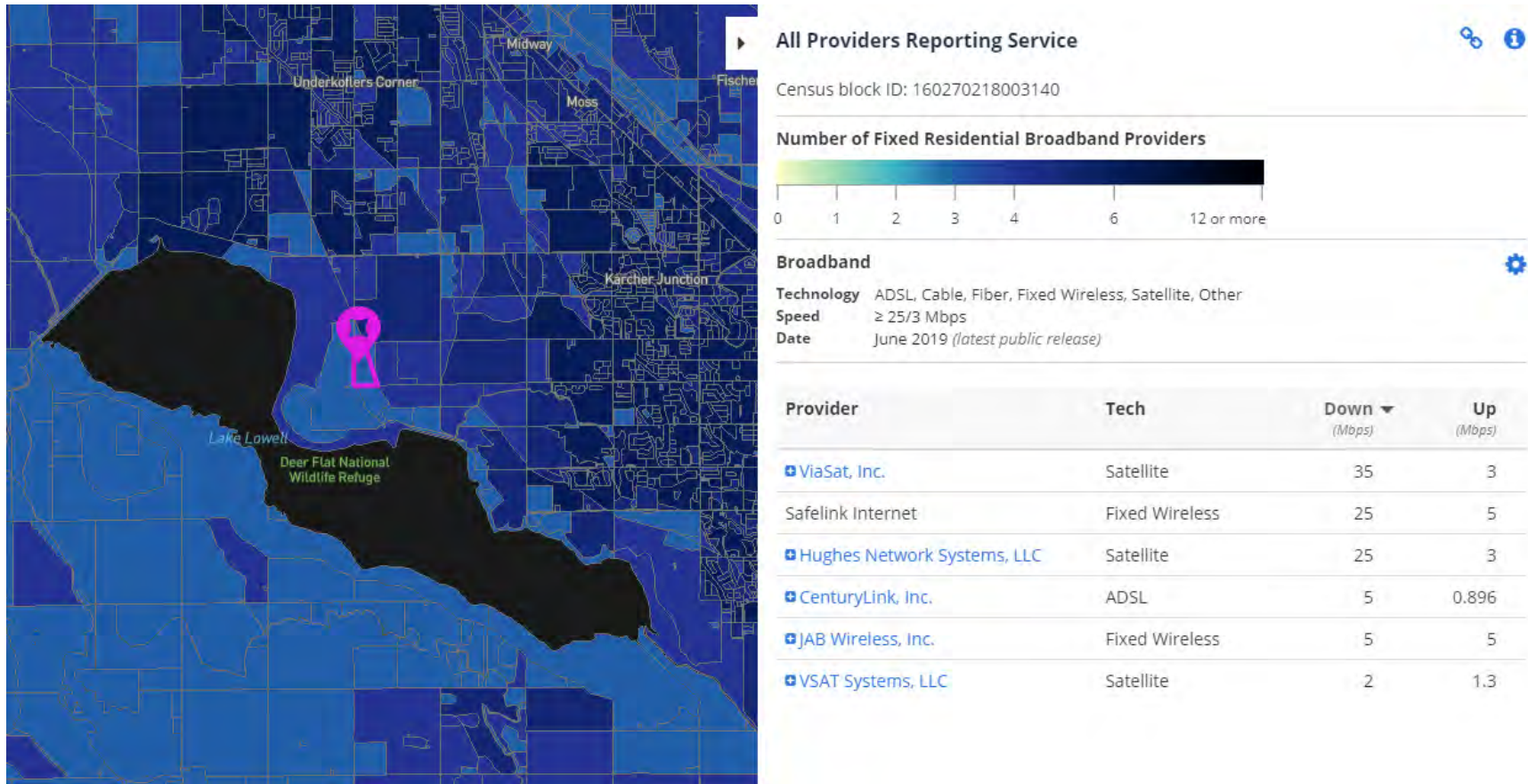
Captain Brad Daniels

7-13-2020

Date

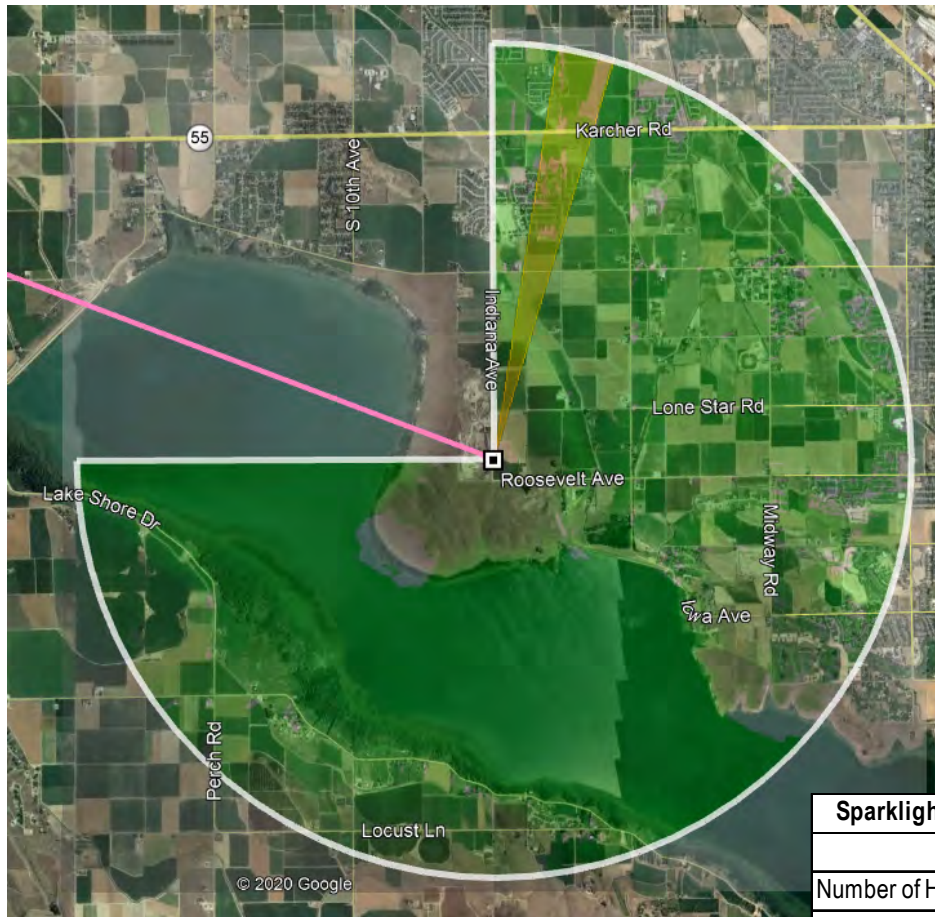
**BLESSED ARE THE PEACEMAKERS**

## MAP 1 – EXISTING BROADBAND AVAILABILITY



A community public outreach effort was conducted, in partnership with Representative Youngblood, identifying broadband speeds lower than those listed in the FCC Fixed Broadband Deployment tool.

## MAP 2 – PROPOSED BROADBAND AVAILABILITY – SPARKLIGHT FWA



<b>Sparklight - Nampa FWA - Indiana Ave</b>	
Number of Households reached	1188
Broadband Speed offered	30x3
Technology - Fixed Wireless	1 tower

# State of Idaho Public Broadband Grant Application Public Safety/Local Government

Applicant	Beth Ineck
Applicant ID	APP-004240
Company Name	Nampa
Recipient Address	Nampa 411 3rd St S Nampa, ID 83651
Phone	(208) 465-2200
Email	ineckb@cityofnampa.us
Amount Requested	\$704,502.00
Status	Submitted
Funded	<input type="checkbox"/>

Application Title: LAKEVIEW PARK PUBLIC BROADBAND PROJECT

## Applicant Information

**NOTICE: Grant applications, challenges, and responses to challenges will be posted to the Idaho Department of Commerce website**

### Purpose:

The CARES Act funding received by the State of Idaho will fund projects across the state that create and retain local jobs and result in purposeful outcomes, including distance learning, telehealth public safety, commerce, and overall well-being. This CFAC Broadband Grant initiative grant program (the “Program for Public Safety and Local Government”) is designed to meet the CARES Act criteria, and help Idaho rebound from the COVID-19 Emergency. Approximately 20% of the total of \$50 million received by the Idaho Department of Commerce will be allocated to this program aimed at public safety organizations and local governments that lack access to broadband.

**• Projects must be completed and grant funds requested and dispersed before December 15th, 2020.**

**Question:** Contact information of applicant: Name Title Mailing Address City/Zip Email Phone

Name: Jeff Barnes, PE Title: Deputy Public Works Director Mailing Address: 411 3 rd Street  
City/Zip: Nampa, ID 83651 Email: barnesj@cityofnampa.us Phone: 208.468.5521

**Question:** List the cities/communities where the project(s) will take place.

City of Nampa

**Question:** Enter the zip code(s) where the project will take place.

83687

**Question:** Enter name and title of designated grant administrator

Name and Title: Lauren Locklear, Contract Administrator

**Question:** Enter the email of the designated grant administrator

locklearl@cityofnampa.us

**Question:** Enter the phone number of the designated grant administrator

Phone Number: 208.565.5274

## Project Requirements

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### PROJECT REQUIREMENTS

- Be infrastructure investment, associated equipment, and accessories related to broadband capable of speeds of 1,000 Mbps download and 1,000 Mbps upload symmetrical.
- Be related to broadband with fiber to:
  - One (1) designated government facility: and
  - One (1) location for public Wi-Fi access where 100 citizens could simultaneously access minimum broadband speeds at 25 Mbps download and 3 Mbps upload while practicing physical distancing. Examples of locations include a municipal building parking area or a municipal park.
- Meet the CARES Act criteria, which is designed to address key areas of public health and safety by improving opportunities to telework, facilitate distance learning, and improve public safety.
- Be a project that does not overbuild existing broadband infrastructure at the required speeds to a local government facility for public safety and local governance.
- Applicants may own and maintain the infrastructure but make such infrastructure open and available for broadband service from only for-profit companies, or membership owned cooperative corporations as defined in [Idaho Code Title 30, Chapter 30](#) that provide broadband services to the services to the public.
- Be completed, operable, paid for, and submitted to the Idaho Department of Commerce for payment no later than December 15, 2020.
- Include broadband infrastructure and equipment costs meeting CARES Act criteria. Satellite service is not eligible for grant award.

**Question:** Does your project meet the CARES Act criteria?

Yes

No

**Question:** Project provides a minimum of 1,000Mbps download and 1,000Mbps upload symmetrical to public facility and access by citizens in municipal park or parking area where a minimum of 100 citizens could have access simultaneously at 25Mbps download/3Mbps upload.

Yes

No

**Question:** Does your project provide high speed service within the applicant's proposed facility for public safety, local governance, and or one (1) open access municipal location nearby for public access for emergencies.

Yes

No

**Question:** Applicants may own and maintain the infrastructure but must make such infrastructure open and available for broadband service from only for-profit companies, or membership owned cooperative corporations that provide broadband services to the public.

Yes

No

**Question:** I understand that the State of Idaho will provide no funding and have no obligations for projects that fail to be completed by December 15, 2020.

Yes

No

## Scored Criteria

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**Question:** Provide an overview of the project including why the project is important and will address broadband needs of the community.

---

## PROJECT OVERVIEW

The shovel-ready, low-risk project will provide broadband communications between the City's Traffic Division Facility, Nampa Police Department (and future Emergency Operations Center), and Lakeview Park. Lakeview Park is located just north of downtown Nampa and currently does not have public Wi-Fi access. The project will complete a critical fiber gap, as identified in the COMPASS regional broadband plan, and install wireless access at the park.

Lakeview Park is the largest park in the City of Nampa and it provides adequate space for practicing personal distancing. This will be the first City operated and maintained public Wi-Fi access location primarily supporting citizens of nearby, low-income residential areas. The project is important as it will provide public Wi-Fi access to a City Opportunity Zone, to encourage long-term investments in low-income urban and rural communities. Equipment upgrades will occur at the Traffic Division and Nampa Police Department government facilities to support public Wi-Fi at the park.

The project will also provide additional benefits to Nampa Public Works, the Nampa Police Department, and regional Internet Service Providers (ISP). Fiber communications capacity will allow Nampa Public Works to remotely connect to roadside signal controllers, eliminating the need for field visits and supporting touchless pedestrian detection at intersections. The Nampa Police Department will benefit since the project will support future deployment of intersection safety equipment. ISPs have already been notified of fiber communications availability to complete existing fiber broadband gaps.

## SCOPE OF WORK

The following Scope of Work has been proposed based on a preliminary planning study that was completed as part of a larger corridor Concept of Operations (included in Attachment 1. Supporting Documents for Scope of Project).

Task 1 – Grant Administration

Task 2 – Project Permitting

Task 3 – Engineering Services

Task 4 – Construction Labor, Equipment, and Materials

Task 4.1 – Traffic Division Facility Upgrades

Task 4.2 – Emergency Operations Center Upgrades

Task 4.3 – Fiber Infrastructure – Segment 1

Task 4.4 – Fiber Infrastructure – Segment 2

Task 4.5 – Lakeview Park Infrastructure and Equipment

Task 5 – Project Validation

## EXISTING BROADBAND PLAN

In partnership with COMPASS, the City has developed a community broadband plan as part of the Treasure Valley Transportation System Operations and Maintenance (TSMO) Plan. This project addresses a critical communications gap identified in the broadband plan located between the Nampa Police Department building and Lakeview Park.

## INTERNET SERVICE PROVIDERS

The City has informed and negotiated project support from ISPs (CenturyLink, Sparklight) and communication infrastructure contractors. Conversations have led to refinement of the project approach, required permits, updated cost estimate and schedule, and ISP buy-in.

**Question:** Is your project in an area where no local government facility has the internet speeds and bandwidth described 1000 Mbps download and 1000 Mbps upload symmetrical?

Yes

Yes

**Question:** Is your project in an area where no public park, municipal parking area, or similar access area for physical distancing has broadband speed to support 100 citizens at 25 Mbps download and 3 Mbps upload?

Yes

No

**Question:** Is the project in a town/city/municipality of less than 3,000 people?

Yes

No

**Question:** Does the project address a need as identified in a local or regional broadband plan? If yes, please describe.

COMPASS TSMO performed a broadband communications planning study for the City of Nampa and identified two key communications gaps between the Nampa Police Department building and Lakeview Park. This project seeks to close those gaps by providing broadband communications to Lakeview Park.

**Question:** Will this project be in conjunction with another broadband grant for Households?

Yes

No

## Additional Requirements

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Upload Supporting Documents for scope of project including maps, site plans, studies, or photographs, demonstrating the location of the project.

### Project Attachment Templates:

[CARES Act Certification](#)

[Grant Budget Template](#)

[Project Schedule Form](#)

[Letters of Support/Community match template](#)

**Question:** Estimated total project cost?



754502.00

**Question:** List the underserved and unserved community facilities (schools, libraries, government offices, hospitals, public safety, etc.) within the proposed project area.

The underserved and unserved community facilities within the proposed project area include: · Lakeview Park, Opportunity Zone – Nampa Parks Department · Nampa Police Department · Snake River Elementary School · Boys & Girls Club of Nampa · Hispanic Cultural Center · Saint Alphonsus Medical Center – Nampa

**Question:** What is the maximum broadband speed that will be provided by the project?

1,000 Mbps symmetrical upload/download

**Question:** Are permits, permissions, rights of way and zoning requirements readily available in order for the project to be completed and paid for by December 15, 2020?

Permits, permission, and zoning requirements are accessible in order for the project to be completed and paid for by December 15, 2020. The City has discussed and negotiated all applicable permits supporting communications infrastructure installation. These permits include: · Idaho Power – Pole Attachment and Conduit Use Agreement · Union Pacific Railroad – Example Construction Easement

**Question:** If answered no in previous question, please describe. If the project does not require any of the above answer N/A.

Permits will be in place prior to construction start.

**Question:** Describe how the project will be administered, audited for completion, and accounting performed.

The City will administer the grant in accordance with Idaho codes for the procurement of goods and services purchased with or reimbursed by funding under the Program for Public Safety and Local Government: · Idaho Code Title 54, Chapter 19 – Public works contractors · Idaho Code Title 67, Chapter 23 – Design professional qualification-based selection · Idaho Code Title 67, Chapter 28 – Purchasing by political subdivisions · Idaho Code Title 67, Chapter 92 – The State Procurement Act Governor Brad Little extended the State of Idaho emergency via proclamation on July 9th due to the ongoing occurrence and imminent threat to public health and safety from COVID-19. The proclamation is included in Attachment 1. Proclamation of Emergency Declaration Extension. Upon award of funding for this public broadband project, the City will proceed with procurement of construction services in accordance with Idaho Statutes providing exemptions to the standard competitive bid requirements. Procurement of construction services will be fast-tracked as allowable thru Title 54, Chapter 19 – Public Works Contractors, Exemptions; 54-1903 (11): Any construction, operation, or repair carried on in response to an emergency that has been officially declared by the governor pursuant to the provisions of chapter 10, title 46, Idaho Code, or an emergency that has been declared by a governing body (city or county) in anticipation of a governor's declaration, for a period of time not to exceed seven (7) calendar days. Title 67, Chapter 28 (67-2808) allows for Emergency Expenditures and Sole Source Expenditures: (1.a) The governing board of a political subdivision may declare that an emergency exists and that the public interest and necessity demand the immediate expenditure of public money if: (iii) It is necessary to do emergency work to safeguard life, health, or property; (2.a) The governing board of a political subdivision may declare that there is

only one (1) vendor if there is only one (1) vendor for the public works construction, services, or personal property to be acquired. For purposes of this subsection, only one (1) vendor shall refer to situations where there is only one (1) source reasonably available and shall include, but not be limited to, the following situations: (i) Where public works construction, services, or personal property is required to respond to a life-threatening situation or a situation that is immediately detrimental to the public welfare or property, (ii) Where the compatibility of equipment, components, accessories, computer software, replacement parts, or service is the paramount consideration. Project accounting will be completed by the Engineering Division staff. The project manager verifies all project related invoices received from consultant and contracting firm tasked to complete design and construction are accurate and within the project budget. The project manager also accounts for the percentage payment from various funding sources which is then verified by the Public Works Accounting Specialists. Once approved, invoices are processed by the City's Finance Department in which the project is verified for the third time that there is adequate budget for the invoice. Once the payment is processed, the City Accounting Specialists request reimbursement per the grant requirements for the invoices. Once the project is completed the project manager will issue substantial completion to notify the contractor that the project is completed except for minor items that will be addressed during a project walkthrough. Punch lists are documented and distributed to the contractor. The contractor will address noted items and final payment will be processed. Final Acceptance will be issued by the City to the contractor to signify that the project is completed. Final record drawings are then requested from the design consultant, as well as a final closeout of the project, which includes documentation of all project-related items.

**Question:** Include any other information regarding why your project should be considered for funding.

The City of Nampa Public Works and the Nampa Police Department currently do not have visibility into traffic signal operations and public incidents. This leads to inefficiencies in operations, maintenance, and incident response on roadways around the project area. Addressing this limitation will improve economic growth and livability, improve public safety, support multimodal travel including freight and transit, and increase the return on the City's investment by leveraging emerging technologies. The project will complete a critical communications gap supporting additional public safety applications. The Concept of Operations included in Attachment 1. Supporting Documents for Scope of Project goes into further detail on the additional benefits provided by the project.

**Question:** Upload Supporting Documents for scope of project including maps, site plans, studies, or photographs, demonstrating the location of the project.

[Question 25 Attachment 1 Supporting Documents.pdf](#) (7/15/2020 11:31 AM)

**Question:** Upload the completed Grant Budget Template for the project that outlines the various costs.

[Question 26 Attachment 2 Grant Budget.pdf](#) (7/15/2020 11:32 AM)

**Question:** Complete the Project Schedule Form

[Question 27 Attachment 3 Project Schedule Form.pdf](#) (7/15/2020 11:34 AM)

**Question:** Include any Letters of Support or Community Match from the community.

[Question 28 Community Match.pdf](#) (7/15/2020 11:39 AM)

[Question 28 Attachment 4 Letters of Support.pdf](#) (7/15/2020 11:37 AM)

**Question:** Provide a copy of your Community Broadband Plan if applicable.

[Question 29 Attachment 5 Community Broadband Plan.pdf](#) (7/15/2020 11:48 AM)

**Question:** Provide a notarized CARES Act Certification that this project meets the CARES Act criteria.

[Question 30 CARES Act Certification.pdf](#) (7/15/2020 11:42 AM)

**Question:** Provide commitments from community anchor institutions or public safety networks which will utilize your service if the project is funded.

[Question 31 Nampa Police Department Commitment Letter.pdf](#) (7/15/2020 11:41 AM)

**Question:** Map of the project area demonstrating the insufficient availability of broadband service for a public facility symmetrical service and in the proposed public service area for 100 citizens using minimum service.

[Question 32 Attachment 8 Map 1.pdf](#) (7/15/2020 11:52 AM)

**Question:** Map of the project area which includes the public facility and public service area, the broadband speeds provided, the fiber, and the technology used to provide the services.

[Question 32 Attachment 8 Map 2.pdf](#) (7/15/2020 11:53 AM)

## Signature

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Your identity has been authenticated through the login process with a unique email address and password available only to you. You agree that by typing your name, title and date below, you are electronically signing the application. By electronically signing the application, you acknowledge and represent that you understand and accept all the terms and conditions stated within the application and declare that the information provided is true and that the documents you are submitting in support of your application are genuine and have not been altered in any way.

**Question:** Type your name.

Beth Ineck

**Question:** Type your title.

Economic Development Director

**Question:** Type the submission date.

7/15/2020

## **ATTACHMENT 1. SUPPORTING DOCUMENTS FOR SCOPE OF PROJECT**

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Attachment 1 includes:

- Nampa Project Concept for ITS Improvements Along the Garrity Corridor
- Lakeview Park – Opportunity Zone
- Pole Attachment and Conduit Use Agreement – Idaho Power Company and City of Nampa
- Union Pacific RR – Example Construction Easement Agreement
- Example Wireless Access Point Cutsheet
- Proclamation of Emergency Declaration Extension

The Public Broadband Grant will not only bring broadband communications to Lakeview Park, but also complete two critical communications gaps along Garrity Blvd. Completing these gaps will help the City use existing communications near I-84 for public safety applications.



# NAMPA PROJECT CONCEPT FOR ITS IMPROVEMENTS ALONG THE GARRITY CORRIDOR

NOVEMBER 2019



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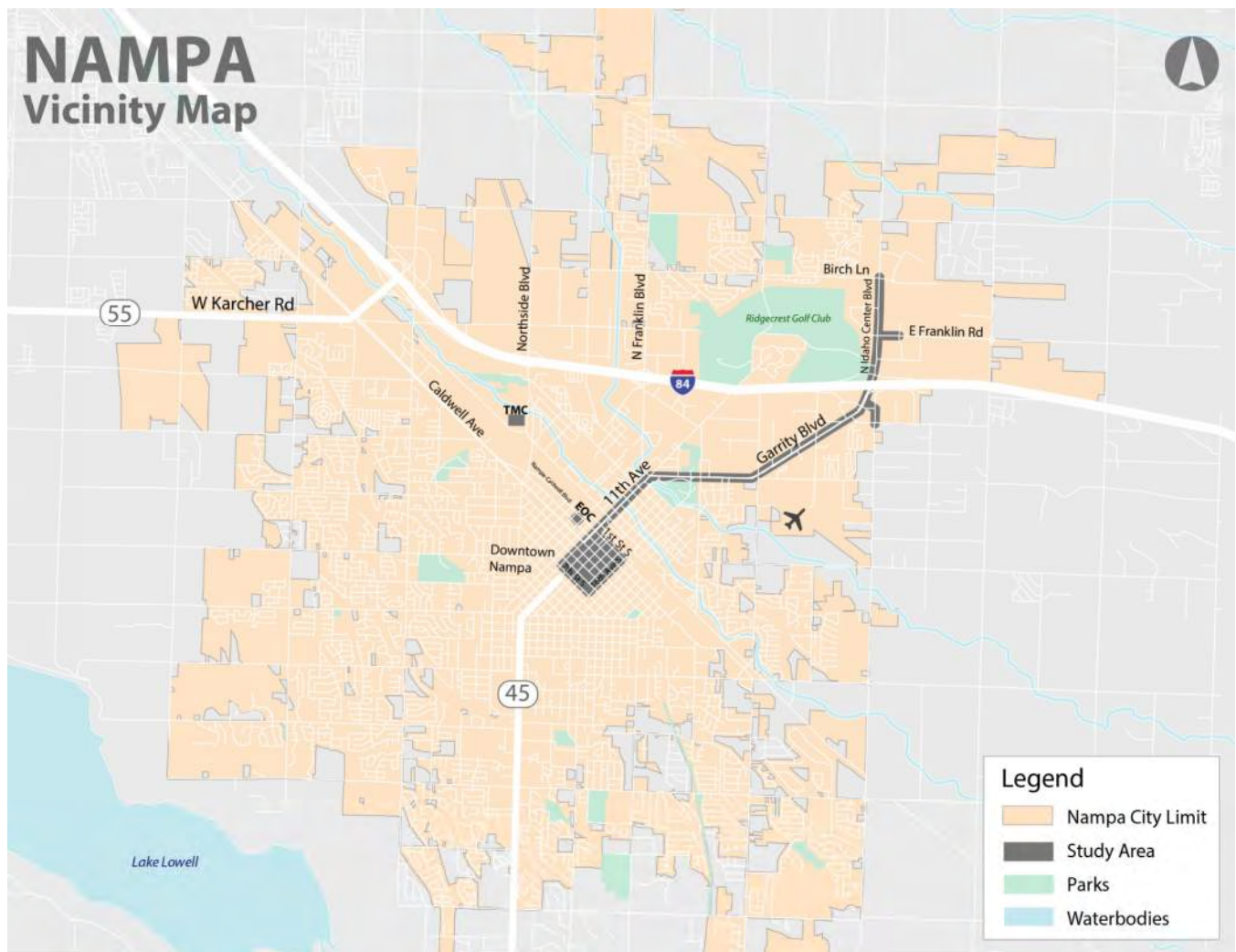
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## PROJECT DESCRIPTION

The Garry Boulevard corridor (I-84 Business Loop) in Nampa, Idaho is in the jurisdiction of the Idaho Transportation Department (ITD) and is operated and maintained by the City of Nampa (see Figure 1). The Garry corridor is one of the highest congested and incident-prone corridors within the City and across Canyon County. This document presents the Nampa Phase 1 ITS project concept which seeks to improve safety and mobility for multiple travel modes particularly freight and transit along the Garry corridor as well as at downtown signalized intersections. The project will leverage emerging technologies to improve traffic signal operations for multiple travel modes, provide remote corridor management and performance monitoring capabilities, and improve public safety using video analytics. The project is being championed through a partnership between the City of Nampa Public Works – Street Division, Nampa Police Department, and City of Nampa IT Department.



**FIGURE 1. PROJECT LOCATION**





## PROJECT NEED AND CURRENT LIMITATIONS, ISSUES, AND CHALLENGES

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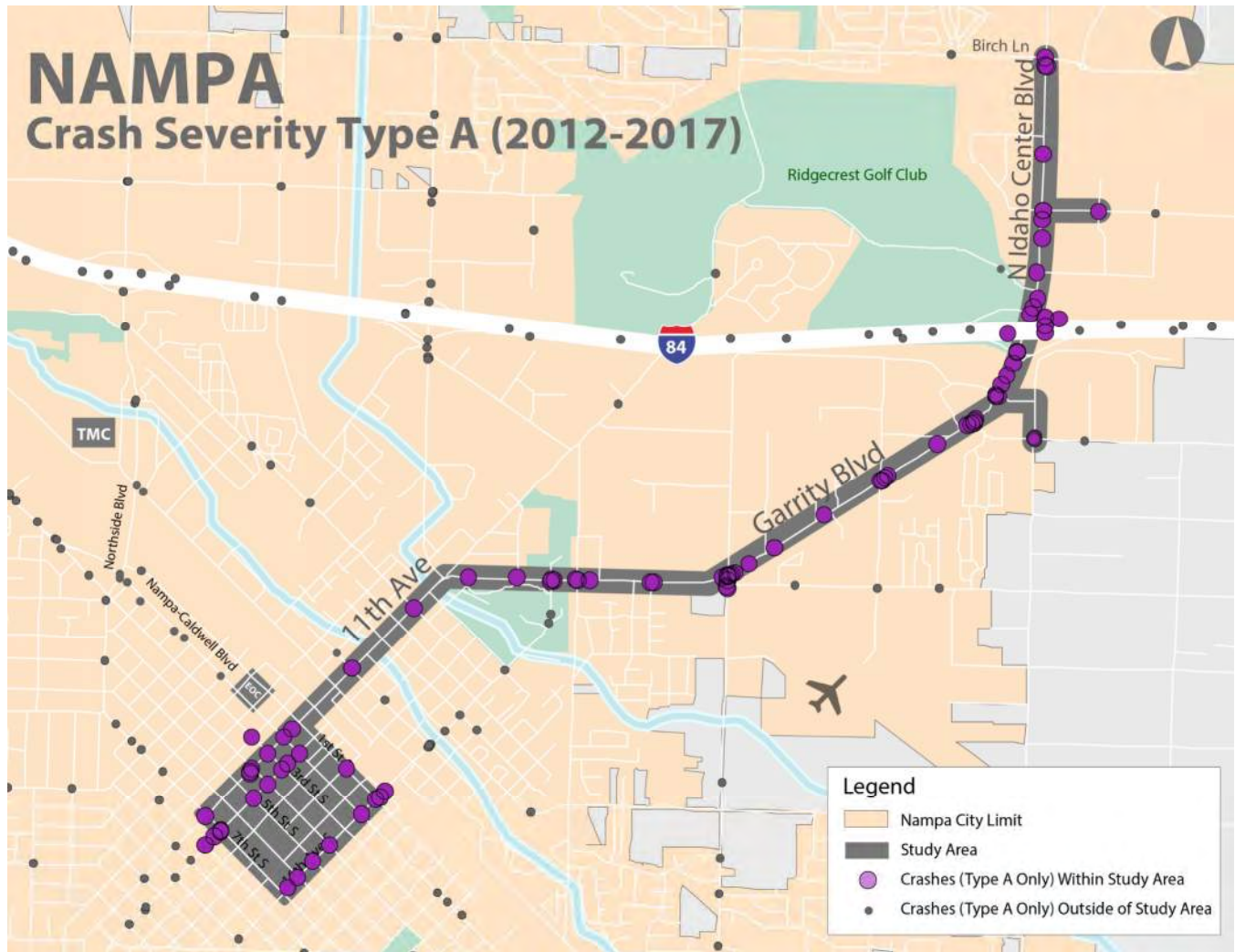
The City of Nampa Public Works and the Nampa Police Department currently do not have visibility into traffic signal operations and public incidents. This leads to inefficiencies in operations, maintenance, and incident response throughout the project corridor. Addressing this limitation will ultimately improve economic growth and livability, improve public safety, support multimodal travel including freight and transit, and increase return on City investment by leveraging emerging technologies. The six focus areas carried through this report include Safety – Public, Safety – Traffic, Mobility, Environment, Asset Management, and Industry Enhancement.

The City and partner stakeholders have identified the following limitations, issues, and challenges:

1. **Safety - Public:** The Nampa Police Department lacks surveillance technology along the corridor. Police officers rely on eyewitness accounts which requires staff time to investigate leads. Regarding incidents along the corridor, dispatchers are unable to visually confirm incident location and status (e.g. lanes blocked) resulting in high response and clearance times.
2. **Safety – Traffic:** A high concentration of fatal to near-fatal collisions have occurred within the project study area (see Figure 2). Safety data is collected when reported by the Nampa Police Department and focuses primarily on serious and fatal occurrences. This approach does not capture near-miss collisions or unreported incidents. Identifying safety conflict hotspots could help the City prioritize pedestrian and vehicle safety improvements.
3. **Mobility:** Vehicle detection along the corridor is only installed at the stop bar and does not measure multimodal demand type (e.g. freight, transit, emergency vehicles, and general-purpose vehicles). All vehicles are treated equally which negatively impacts the movement of goods (freight), people (public transit), and emergency services. The I-84/Garrity Boulevard interchange is notorious for long traffic queues during peak periods. Traffic volumes are expected to increase substantially along the Garrity Boulevard corridor with the construction of a large distribution center near the northern City limits.
4. **Environment:** Signalized intersection delay increases vehicle idle time which results in increased Greenhouse Gas (GHG) emissions. The transportation sector is one of the largest contributors to GHG emissions with light-duty vehicles being the main contributor.
5. **Asset Management:** City traffic signal technicians must travel to roadside signal controller cabinets to make signal timing modifications, install firmware updates, and respond to signal controller alerts and faults. Centralized monitoring and reporting would reduce staff time for maintenance activities and this time would be reallocated to signal system performance and safety improvements.



6. **Industry Enhancement:** The City does not have infrastructure or a process in place necessary to share information with other regional agencies. The City envisions integrating systems with ITD, ACHD, and City of Caldwell to provide a cross-jurisdictional approach to traffic management.



**FIGURE 2. PROJECT STUDY AREA TYPE A COLISION MAP**

**PROJECT DESCRIPTION AND PROPOSED EMERGING TECHNOLOGY DEPLOYMENT**

The Nampa Phase 1 ITS project seeks to improve safety and mobility for multiple travel modes including freight, transit, and the general vehicles along the Garry Boulevard corridor. The corridor experiences heavy levels of congestion especially during the peak commute periods negatively impacting goods movement, commuter travel times, and safety at signalized intersections. The project will leverage industry-tested traffic signal system technologies to increase corridor capacity without the need of new and costly roadway infrastructure such as



additional lanes. In partnership with the Nampa Police Department, the project will also seek to improve public safety by deploying a camera surveillance system.

To meet the needs of the City and partner stakeholders, the emerging technology deployment will include signalized intersection equipment, backhaul communications, and centralized management systems at a proposed Nampa Police Emergency Operations Center (EOC) and a City of Nampa's Traffic Management Center (TMC).

The Nampa Phase 1 ITS project concept proposes the following emerging technologies to address the needs of the project stakeholders:

1. **Safety - Public:** The project will deploy closed-circuit television (CCTV) cameras at 19 intersections. The CCTV cameras will send real-time video feeds back to a Video Management System (VMS) located at the EOC. The VMS will utilize machine learning and video analytics to automatically identify and track incidents affecting public safety. The EOC will include a video wall for EOC operator video monitoring and review.

Emerging Technology: CCTV cameras, Video Management System

2. **Safety – Traffic:** The project will use the video feeds received from the VMS to perform post-processing near-miss collision analysis. This will help signal operators identify locations with a high probability of a future collision. This proactive approach will allow signal operators to make signal timing adjustments to improve safety for drivers and pedestrians. Automated Traffic Signal Performance Measures (ATSPMs) such as red-light running detection could improve intersection safety by extending the all red period when a red-light runner is detected.

Emerging Technology: CCTV cameras, near-miss collision analysis platform, and ATSPMs

3. **Mobility:** The project will enhance vehicle detection technology which will allow the traffic signal controller to equitably serve all traffic modes along the corridor placing a heavy emphasis on efficient goods movement (freight), people movement (transit), and emergency response. The project will include a Systems Engineering process to evaluate and procure a freight detection technology. Stakeholders will also partner with Valley Regional Transit and the Nampa Fire Department to upgrade transit and emergency vehicle detection equipment. In addition to detection, traffic signal controller performance will be monitored and measured using backhaul communications, centralized reporting, and ATSPMs. This will allow signal operators to make changes to signal timing plans from the TMC to accommodate special events, incidents, and peak hour traffic demand.

Emerging Technology: ATSPM data from Advanced Transportation Controllers (ATC), multi-modal detection including freight and transit detection, and centralized traffic signal management system



4. **Environment:** The project will seek to reduce vehicle delay along the Garrity corridor which will reduce vehicle emissions. Corridor travel time will be the basis for measuring reduction in GHG emissions. Travel time data sources could include Bluetooth/Wi-Fi readers and third-party probe data such as from INRIX and Google.

Emerging Technology: Environmental performance measures, probe data

5. **Asset Management:** The project will complete fiber communications gaps along the Garrity corridor and downtown. Backhaul communications will allow for centralized monitoring and reporting of the traffic signal system including signal controllers and CCTV cameras. Signal operators will be able to monitor and address signal system faults and modifications in real-time from a single location at the TMC.

Emerging Technology: Backhaul communications, centralized traffic signal management system

6. **Industry Enhancement:** The project will include Systems Engineering and procurement of freight vehicle detection technology to support advanced traffic signal operations prioritizing freight movement. This technology could be expanded regionally to monitor freight movements and help identify locations which could benefit from freight related improvements. The City also envisions integrating with ITD, ACHD, and City of Caldwell to provide a cross-jurisdictional approach to traffic management.

Emerging Technology: Freight detection, interagency communications

## PROJECT STAKEHOLDERS

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Project stakeholders will include a mixture of private and public entities who manage, operate, interact with, or benefit from the proposed system. Expected key stakeholders, public partners, and private partners are listed below.

### Key Stakeholders and System Operators

- City of Nampa Public Works – Streets Division: responsible for the maintenance of 369 miles of City streets, 57 traffic signals, 9,758 traffic signs, and 4,300 street lights. For the Nampa Phase 1 ITS project, the Streets Division seeks to proactively apply corridor safety measures, improve traffic signal operations to benefit all modes including freight and transit, and leverage asset monitoring and management to efficiently operate the transportation network.
- Nampa Police Department: mission is to respectfully protect and serve the Nampa community through integrity, teamwork and excellence. For the Nampa Phase 1 ITS project, the Police Department seeks to improve response time to incidents and enact crime prevention strategies leveraging a new EOC and video analytics technology.
- City of Nampa IT Department: responsible for the maintenance of the City’s communication network. For the Nampa Phase 1 ITS project, the IT department seeks to provide policy



oversight when deploying new technologies and connecting these technologies to the City's network.

#### Public Partners

- Idaho Transportation Department (ITD): state of Idaho governmental organization responsible for state transportation infrastructure including I-84 and the I-84/Garrity Boulevard interchange and State Route 45 through downtown Nampa.
- Community Planning Association of Southwest Idaho (COMPASS): regional planning agency in southwest Idaho that helps maintain a healthy and economically vibrant region, offering people choices in how and where they live, work, play, and travel.
- City of Caldwell: neighboring city to the northwest sharing the I-84 and Nampa-Caldwell Boulevard corridors.
- Valley Regional Transit: regional transit agency currently operating the CWI Shuttle, BSU Express, Route 40, Route 42, Route 51, and Route 52 within the project limits. Valley Regional Transit seeks to improve speed and reliability using transit vehicle detection technology.
- Nampa Fire Department: mission is to honorably serve the Nampa community in a safe, prompt, professional matter. The Nampa Fire Department seeks to reduce response time using emergency vehicle detection technology.

#### Private Partners

- Northwest Nazarene University: desires to share surveillance video feeds with the Nampa Police Department in support of public safety.
- Local businesses and distribution centers
- Freight companies

### EXISTING CONDITIONS

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The Garrity Boulevard corridor is one of the primary arterials for accessing downtown Nampa and the Ford Idaho Center from I-84 and includes the following key sections of roadway.

- Idaho Center Boulevard (Idaho Center Arena to I-84 interchange)
- Garrity Boulevard (I-84 interchange to 11<sup>th</sup> Avenue)
- 11<sup>th</sup> Avenue (Garrity Boulevard to 3<sup>rd</sup> Street South)
- 12<sup>th</sup> Avenue – State Route 45 (2<sup>nd</sup> Street South to 7<sup>th</sup> Street South)
- 16<sup>th</sup> Avenue (2<sup>nd</sup> St South to 7<sup>th</sup> St South)

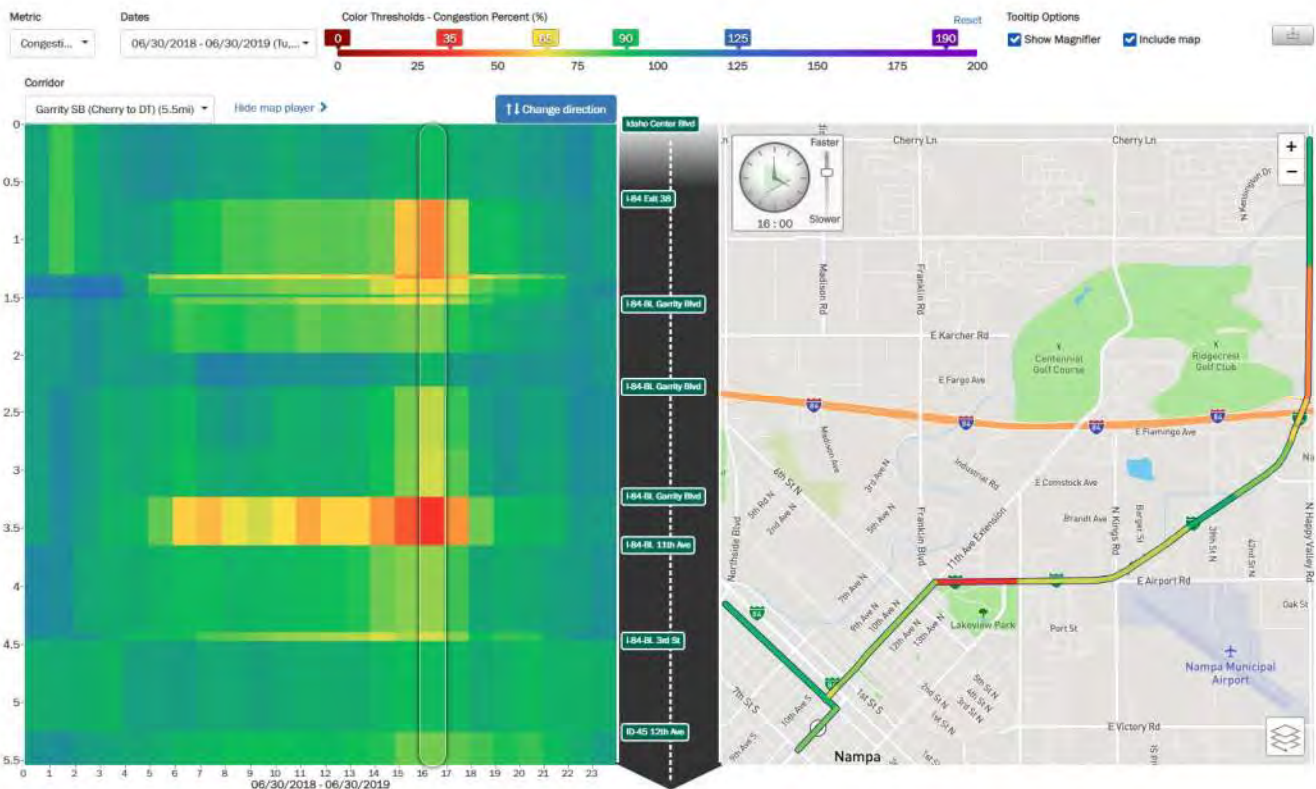
Garrity Boulevard currently serves approximately 30,000 vehicles every day resulting in significant backups impacting freight, transit, and general vehicle travel at the I-84 interchange and along the



Garrity Boulevard corridor. Table 1 provides a sample of daily traffic volumes along the route, and Figure 3 illustrates the congestion hot spots on Garrity Boulevard. The Congestion Scan on the left compares the time of day (horizontal axis) to the congestion level along a segment of the corridor for the southbound direction. The Congestion Scan Map on the right visually shows the congestion average at 4:30pm. This is an example of how probe data can be leveraged from a third-party data source (Source: INRIX).

**TABLE 1. TRAFFIC VOLUMES (VEHICLES PER DAY)**

	LOCATION	YEAR OF COUNT	TOTAL TRAFFIC VOLUME
<b>GARRITY BOULEVARD</b>	South of Flamingo	2014	27,000
<b>GARRITY BOULEVARD</b>	East of 39th	2014	30,000
<b>GARRITY BOULEVARD</b>	West of 39th	2014	28,000
<b>11<sup>TH</sup> AVENUE</b>	South of 1st	2014	24,000
<b>3<sup>RD</sup> ST S</b>	West of 7th	2014	10,000



**FIGURE 3. CORRIDOR CONGESTION MAP**

**MAJOR TRAFFIC GENERATORS**



Major traffic generators (see Figure 4) and destinations along the corridor include the following:

Medical Centers

- Saint Alphonus Medical Center and Bikeland Maternity Center

Event and Shopping Centers

- Ford Idaho Center
- Nampa Gateway Center
- Multiple car dealerships, department stores and grocery stores

Airport

- Nampa Municipal Airport

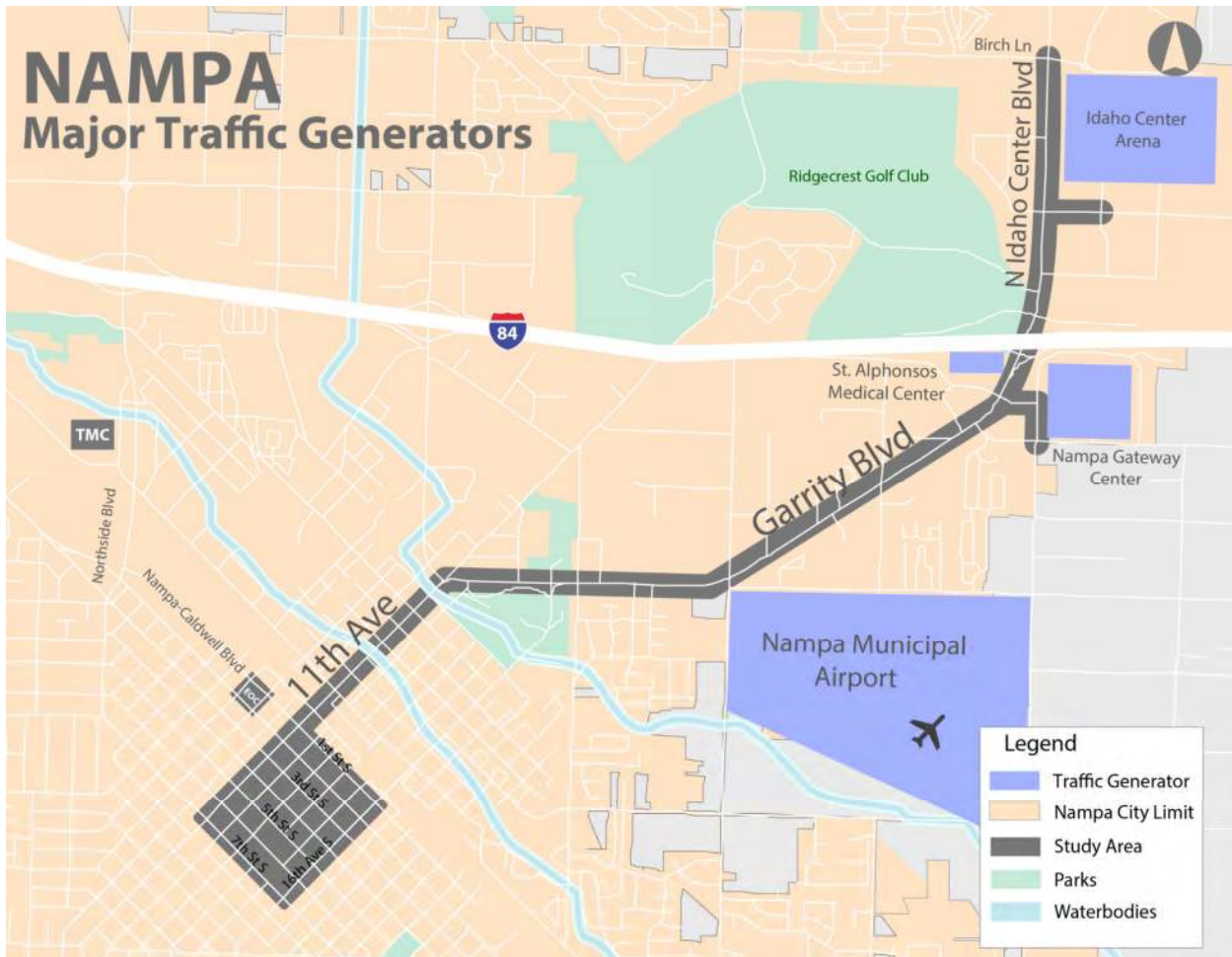
Public Schools and Universities

- College of Western Idaho
- Northwest Nazarene University
- Central Elementary
- Snake River Elementary

Public Attractions

- Lakeview Park
- Nampa Public Library





**FIGURE 4. MAJOR TRAFFIC GENERATORS**

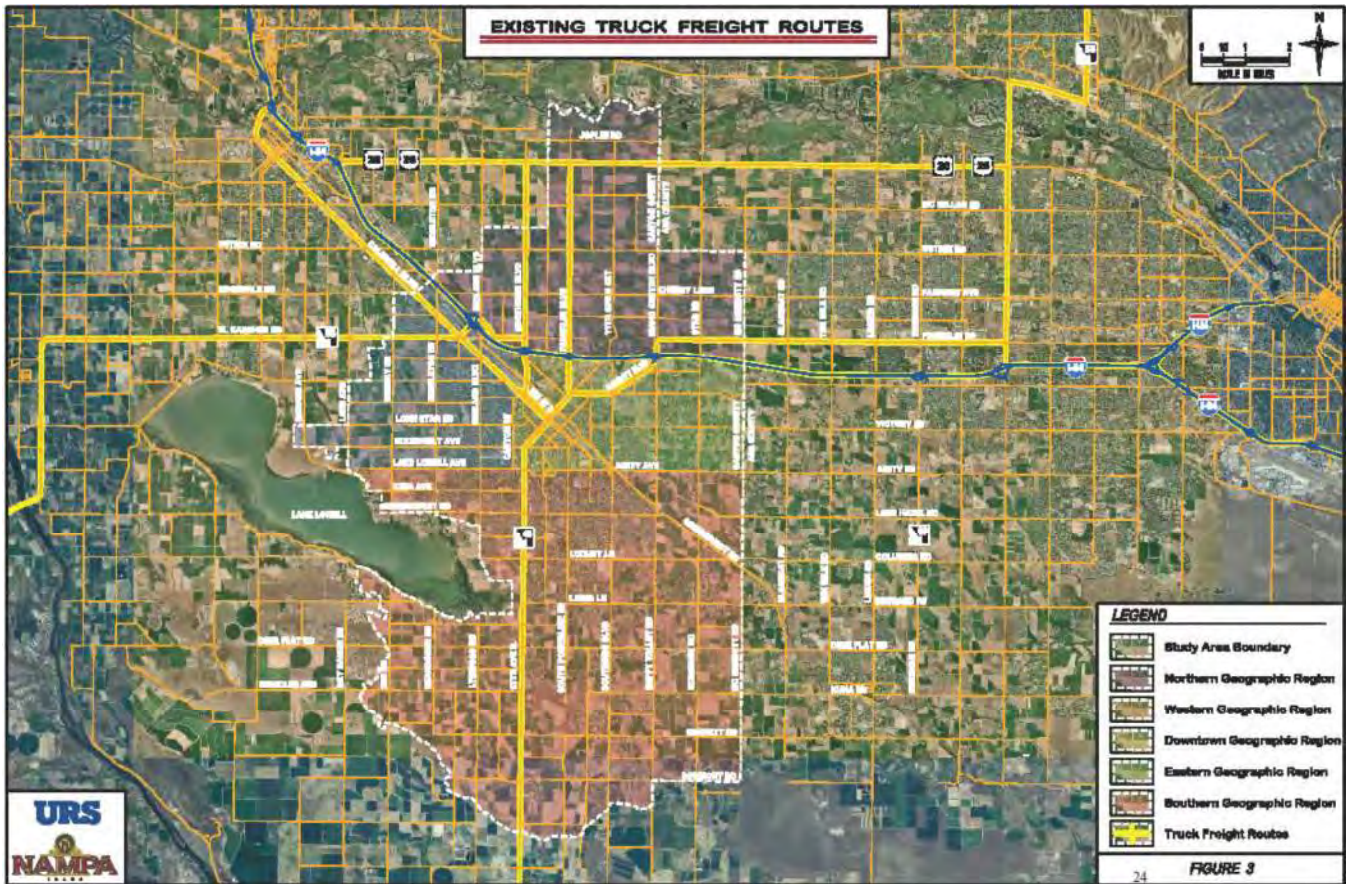
### **FREIGHT MOVEMENT**

Garry Boulevard, 11<sup>th</sup> Avenue, and 12<sup>th</sup> Avenue (State Route 45) are all designated as truck freight routes and provide the primary access for trucks from I-84 to the City of Nampa<sup>1</sup> (see Figure 5 for existing truck routes). Industrial production and distribution centers are located near the north limits of the City (see Figure 6). Truck volumes range between 10 to 15 percent of total traffic volumes. Freight traffic from this location travels along the project corridor connecting to SH-45 to the south and Garry Boulevard to the west. Planned industrial expansion to the north is expected to increase truck volumes by 15 percent.

<sup>1</sup> Nampa Citywide Transportation Plan, City of Nampa, Idaho, Adopted in April, 2012.

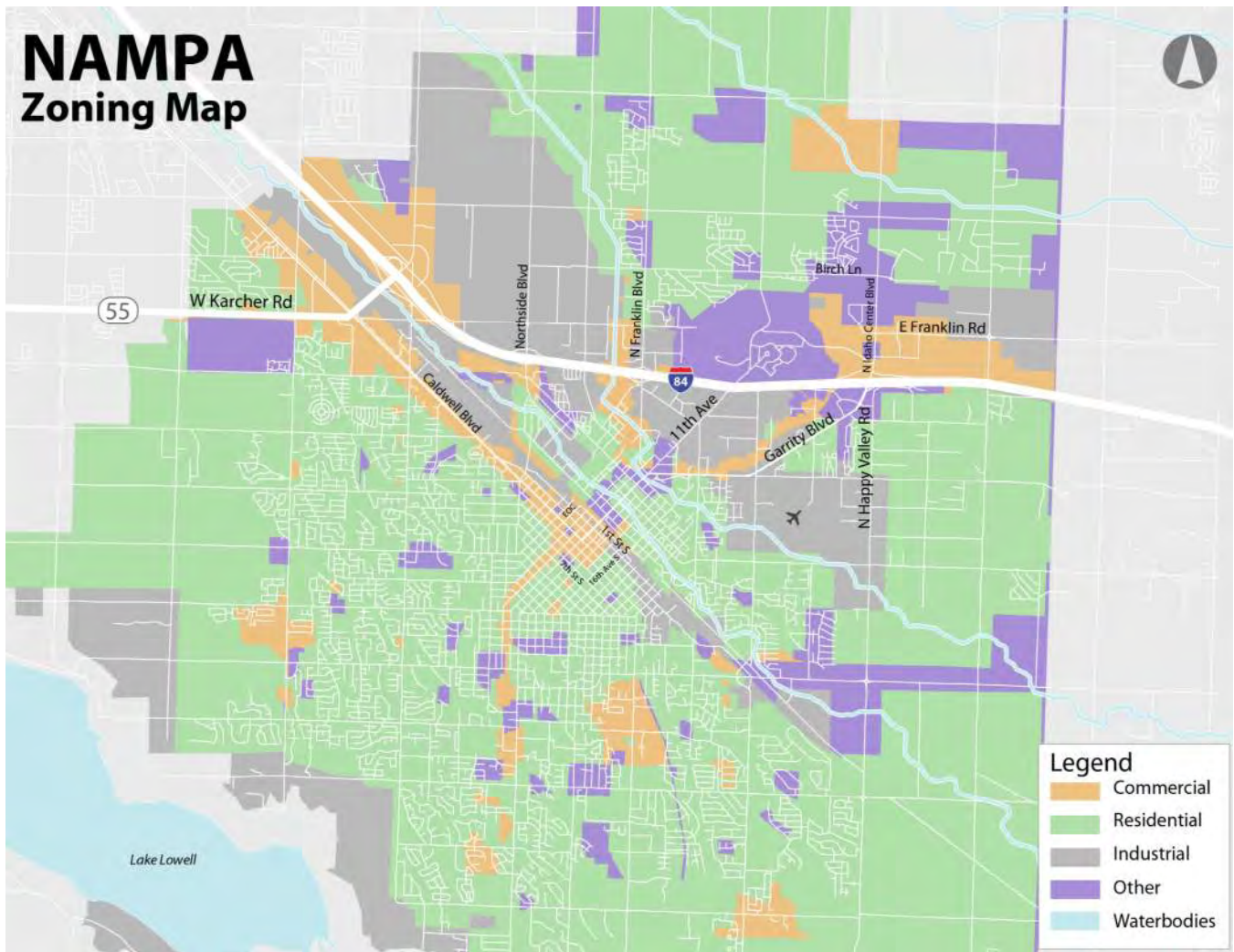






**FIGURE 5. NAMPA TRUCK FREIGHT ROUTE MAP**



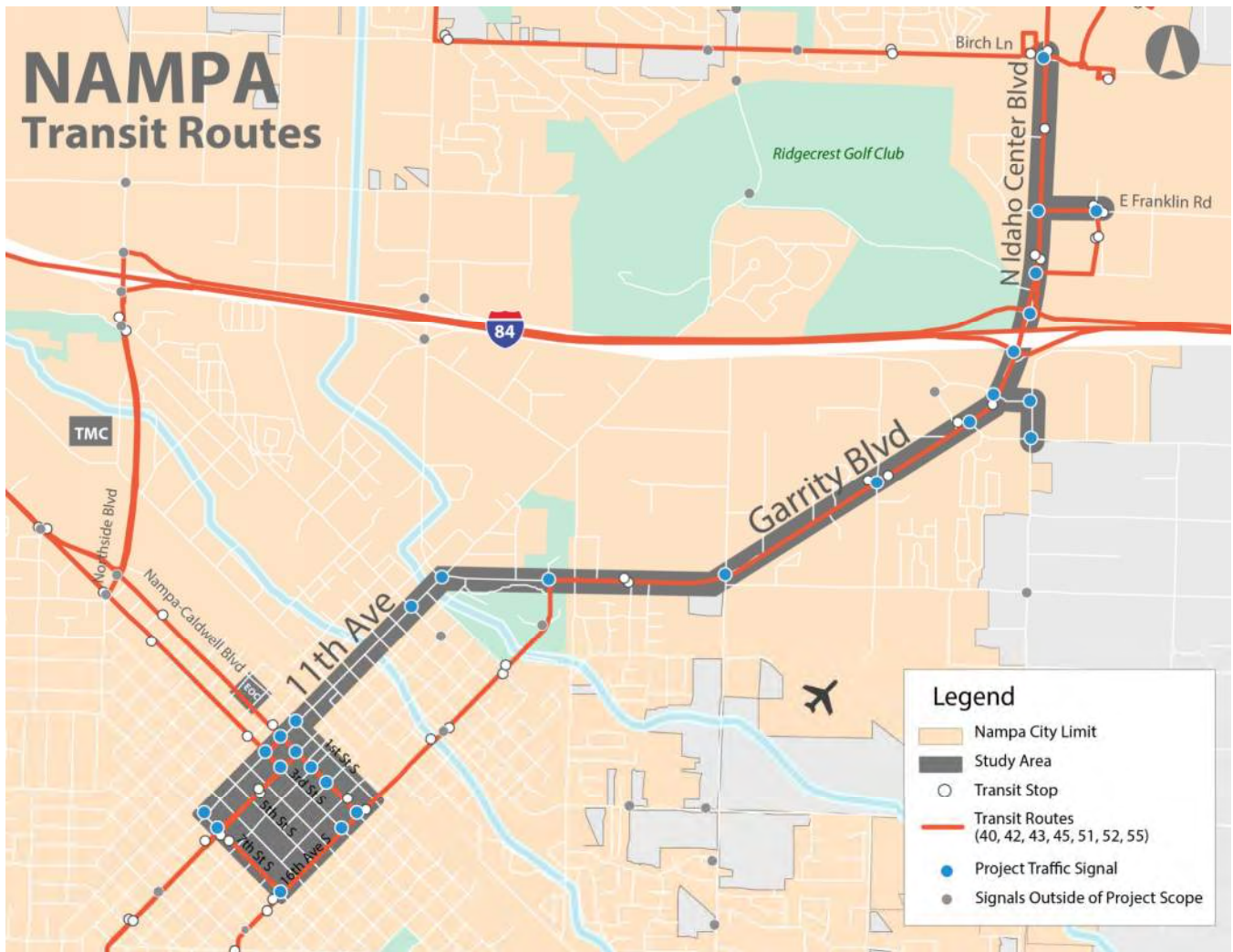


**FIGURE 6. NAMPA ZONING MAP**

**TRANSIT ROUTES**

The project corridor currently serves the Valley Regional Transit Route 51 which runs between the College of Wester Idaho located at the north end of the project limits and Northwest Nazarene University to located to the south end of the project limits. Route 51 offers an important connection to downtown Boise via Route 45 and the Boise State University (BSU) Express. Figure 7 identifies the transit routes along and near the project corridor. Additional routes passing through project intersections include the CWI Shuttle, Route 40, Route 42, and Route 52





**FIGURE 7. TRANSIT ROUTE MAP**

The Garry Boulevard connection to downtown Nampa is an important connection for transit, but one that currently experiences a lot of delay impacting arrival time reliability. In fact, Valley Regional Transit recently rerouted routes 40 and 42 onto Franklin Boulevard due to the congestion along Garry Boulevard. Based on recent transit performance data provided by Valley Regional Transit, nearly 15 percent of buses operating on Route 51 arrive late, which is defined as more than 5 minutes late.

## GOALS, OBJECTIVES, AND PERFORMANCE METRICS

The goals, objectives, and performance metrics define the main purpose of the Nampa Phase 1 ITS project ensuring a consistent vision and outcome expectation, outlining how goals could be accomplished, and validating stakeholder needs are met by the deployed technologies.

### GOALS

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The City of Nampa and partner stakeholders have identified the following overarching goals for the project:

1. **Safety - Public:** Increase response time to incidents and support investigation efforts of serious crimes.
2. **Safety – Traffic:** Increase driver, passenger, and pedestrian safety.
3. **Mobility:** Improve mobility and reduce congestion for all modes including freight and transit.
4. **Environment:** Reduce impacts to the environment.
5. **Asset Management:** Improve maintenance, operations, and performance measurement of assets.
6. **Industry Enhancement:** Share, promote, and integrate successful emerging technology deployment to other regional agencies and partners.

### OBJECTIVES

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The City of Nampa and partner stakeholders have created the following list of objectives which outline how each goal will be met:

1. **Safety – Public**
  - Share video feeds with emergency services particularly with Nampa Police for enforcement and public safety purposes.
  - Improve incident management between the City, ITD, and emergency responders via integrated emergency operations and traffic management centers.
  - Utilize video analytics to post-process video feeds for crime investigation efforts.
  - Prioritize emergency vehicles at signalized intersections well in advance of vehicle arrival to the intersection.
2. **Safety – Traffic**
  - Identify areas of high collision risk and evaluate mitigation alternatives.
  - Reduce number and severity of vehicle-to-vehicle and vehicle-to-pedestrian collisions.
3. **Mobility**



- Reduce delay at signalized intersections and improve travel time reliability and person throughput along the corridor.
- Improve accessibility – transportation mode alternatives, connections to regional Valley Regional Transit routes (e.g. Nampa to Boise), and improved access for underserved populations.
- Improve efficiency and reliability of goods movement (freight).
- Improve transit speed and reliability using Transit Signal Priority (TSP) and spot improvements such as queue jumps.
- Improve traffic management during construction activities and major events (planned).
- Partner with third-party data sources for real-time incident and congestion information (e.g. Google Waze) and historical performance information (e.g. INRIX).
- Collect, use, and disseminate real-time and historical traffic, transit, and parking data to help travelers make informed travel decisions (route and mode).

#### **4. Environment**

- Decrease transportation-related emissions by reducing vehicle delay and congestion.

#### **5. Asset Management**

- Reduce maintenance costs of signal system infrastructure and equipment using centralized management systems.
- Ensure state of good repair using automated reporting.

#### **6. Industry Enhancement**

- Expand technology throughout City and integrate with regional partners at City limits.
- Share lessons learned streamlining future regional deployments.

### **PERFORMANCE METRICS**

---

The City of Nampa and partner stakeholders will measure success by applying the following performance metrics:

#### **1. Safety – Public**

- Police enforcement success rate
- Incident response and clearance time

#### **2. Safety – Traffic**

- Intersection safety improvement before-after study – near-miss collision analysis

#### **3. Mobility**

- Corridor and intersection performance – travel times (including freight), congestion levels, and Automated Traffic Signal Performance Measures (ATSPMs)
- Transit speed, reliability, and ridership data
- Automated vehicle counts and classifications

#### **4. Environment**



- GHG emission reduction

#### **5. Asset Management**

- Reduction in roadside signal maintenance time and equipment repairs
- Signal equipment failure response time

#### **6. Industry Enhancement**

- Documented results
- Project dashboard (website)



## EMERGING TECHNOLOGY DEPLOYMENT CONCEPT

The Emerging Technology Deployment Concept details the proposed equipment and infrastructure required to meet the goals, objectives, and performance metrics established by the City of Nampa and partner stakeholders.

Each focus area below lists the associated emerging technology which is described in detail under the Proposed Project Concept.

### 1. Safety – Public

- Signalized Intersection Equipment
  - > Emergency Vehicle Detection: emergency vehicle signal preemption
  - > CCTV Cameras: incident monitoring
- Backhaul Communications
  - > Communications from field devices back to the EOC
- Nampa Police EOC
  - > Video Wall: incident monitoring
  - > Video Management and Monitoring System: incident recording and crime investigation analytics

### 2. Safety – Traffic

- Signalized Intersection Equipment
  - > Vehicle Detection: red light running notification
  - > CCTV Cameras: incident monitoring, near-miss collision recording
- Backhaul Communications
  - > Communications from field devices back to the TMC
- City of Nampa TMC
  - > Video Wall: incident monitoring
  - > Video Monitoring System: incident monitoring and near-miss collision reporting

### 3. Mobility

- Signalized Intersection Equipment
  - > Traffic Signal Controller: advanced signal controller operations, signal equipment performance reporting – Note: Traffic signal controller upgrades will occur using City funds as part of a separate project.
  - > General Vehicle Detection: vehicle counts, vehicle classifications, stop bar and advanced detection, signal performance measures – Note: General vehicle detection pgrades will occur using City funds as part of a separate project.
  - > Freight Vehicle Detection: freight signal priority
  - > Transit Vehicle Detection: transit signal priority and queue jumps
  - > CCTV Cameras: corridor performance monitoring



- Backhaul Communications
  - > Communications from field devices back to the TMC
- City of Nampa TMC
  - > Video Wall: corridor performance monitoring
  - > Video Monitoring System: corridor performance monitoring
  - > Traffic Signal Management System: signal equipment performance reporting, third-party data performance reporting, ATSPMs

#### **4. Environment**

- Signalized Intersection Equipment
  - > Traffic Signal Controller: advanced signal controller operations
- Backhaul Communications
  - > Communications from field devices back to the TMC
- City of Nampa TMC
  - > Traffic Signal Management System: environmental performance measures, corridor travel times using third-party data

#### **5. Asset Management**

- Signalized Intersection Equipment
  - > Traffic Signal Controller: signal equipment status reporting
- Backhaul Communications
  - > Communications from field devices back to the TMC
- City of Nampa TMC
  - > Traffic Signal Management System: signal equipment status reporting, centralized monitoring and management

#### **6. Industry Enhancement**

- City of Nampa TMC
  - > Traffic Signal Management System: integration with partner jurisdictions

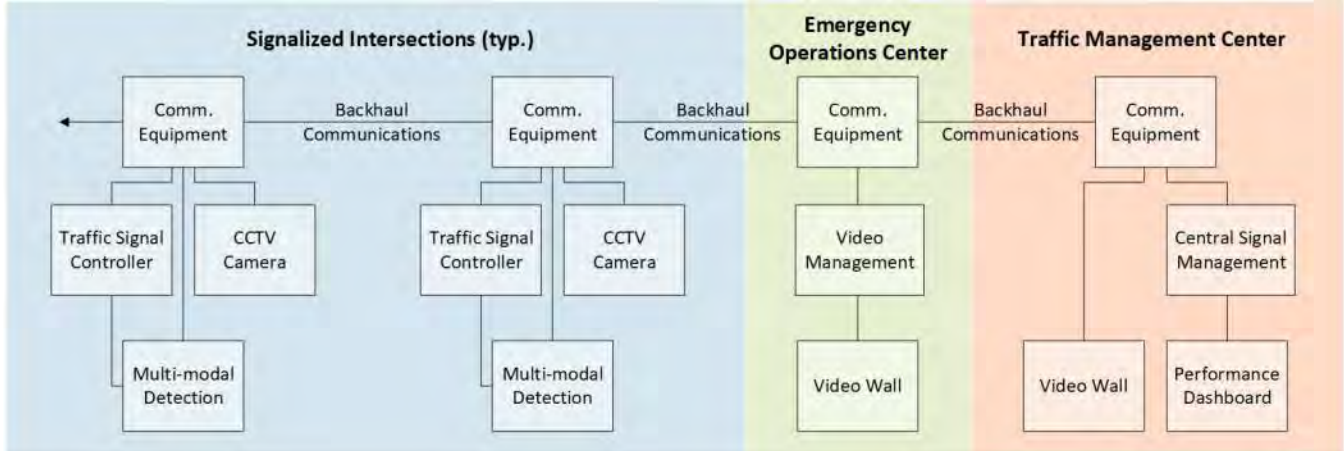
### **PROPOSED PROJECT CONCEPT**

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The Proposed Project Concept includes signalized intersection equipment, centralized management and monitoring systems, and backhaul communications connecting the two. Signalized intersection equipment is responsible for controlling the intersection, detecting vehicles, monitoring the corridor, and providing real-time equipment status and historical reports. Centralized management and monitoring systems allow operators to remotely manage and operate intersection equipment, identify incidents and safety concerns, and generate performance reports. Backhaul communications supports the network connection between the intersection equipment and central systems. Figure 8 visualizes the Proposed Project Concept architecture including key components and connections.







**FIGURE 8. CONCEPT ARCHITECTURE**

### EXISTING SIGNAL SYSTEM EQUIPMENT

The City maintains over 60 signalized intersections citywide, 29 of which are owned by Idaho Transportation Department (ITD). The project corridor includes 27 signalized intersections, five of which are owned by ITD (see Figure 9).

The Nampa Phase 1 ITS project will leverage and optimize existing equipment when feasible. The City of Nampa has deployed Intelligent Transportation System (ITS) technology as part of past projects, however, many gaps exist. Existing equipment includes:

Traffic Signal Controller: Econolite Cobalt

- Nampa Public Works has procured Econolite Cobalt traffic signal controllers for all project intersections which will replace existing Northwest Signal M1 controllers no longer supported by the manufacturer. These controllers will be procured and installed later this year using City funds. The Nampa Phase 1 ITS project will maintain the Econolite Cobalt controller. Figure 9 shows the project's signalized intersections all of which will have the Econolite Cobalt controller by the start of the project.

Transit and Emergency Vehicle Detection: GTT Opticom Infrared (IR) and Global Positioning System (GPS) Technology

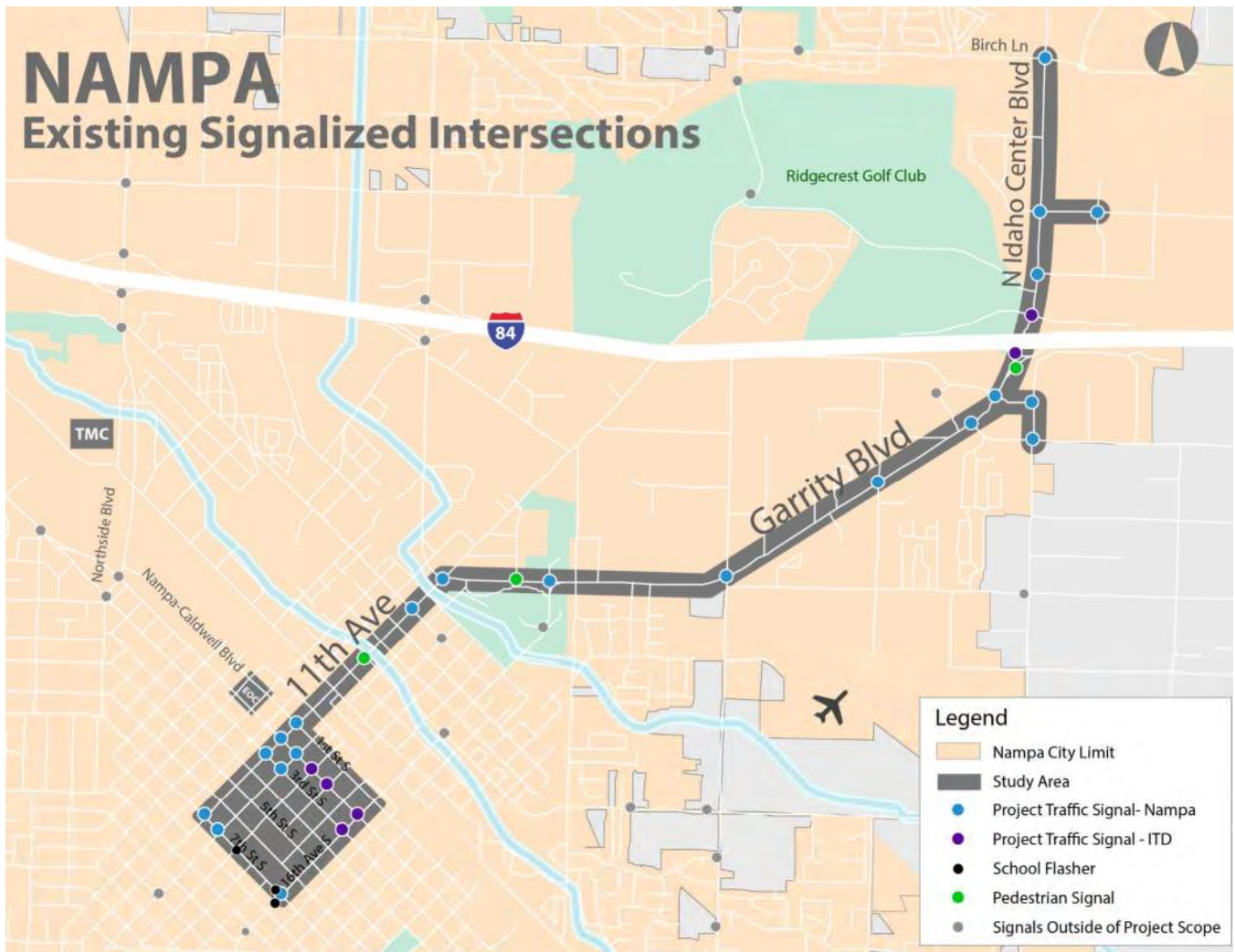
- The Nampa Fire Department currently uses the GTT Opticom IR system to request emergency vehicle priority at project intersections. The GTT emergency vehicle on-board transmitter emits an infrared light which is detected by a receiver mounted on the signal mast arm. The receiver translates and sends this call to a GTT phase selector card installed in the signal controller cabinet. The phase selector card then relays the call to the associated signal controller preemption input providing the emergency vehicle a green light. The Nampa Fire Department is

considering an upgrade of the on-board equipment to a GPS-based communication method to improve detection and location accuracy.

- The two northernmost intersections within the project boundaries also have the GTT Opticom GPS system installed. The GPS system is more accurate than the IR system as it relies on vehicle's GPS position. Valley Regional Transit coaches currently use the GTT Opticom GPS system in Boise for transit signal priority. A GTT multi-mode phase selector card can support both IR and GPS detection technologies.

#### Backhaul Communications: Fiber Optic Cabling

- The City of Nampa has installed fiber optic communications throughout the city; however, many gaps exist which are hindering a complete backhaul communications link to project signal controller cabinets. The Nampa Phase 1 ITS project will utilize existing fiber communications where present including the existing fiber connection between the proposed EOC and TMC.



**FIGURE 9. EXISTING SIGNALIZED INTERSECTIONS MAP**



## **PROPOSED SIGNALIZED INTERSECTION EQUIPMENT**

Signalized intersection equipment includes emerging technology to be installed at each project intersection focusing primarily on advanced signal controller operations, multimodal vehicle detection, and CCTV corridor monitoring.

### **Traffic Signal Controllers**

The City of Nampa is currently replacing the NW Signal M1 Signal Controller with the Econolite Cobalt Advanced Transportation Controller (ATC). The Nampa Phase 1 ITS project will leverage new Econolite Controllers procured and installed by the City at the project's signalized intersections. The Econolite Cobalt controller supports high-resolution data required for Automated Traffic Signal Performance Measures (ATSPMs) and advanced signal timing configurations such as vehicle priority logic, leading pedestrian walk intervals, and variable lane use control. The Econolite Cobalt controller is the current standard for ITD signalized intersections. The controller is Ethernet addressable supporting centralized management and reporting via backhaul communications.

#### Proposed Mobility Applications

- Multimodal vehicle priority logic including freight, transit, and emergency vehicles
- ATSPM logs and real-time status reporting
- Variable lane use control based on peak period traffic volumes
- Coordinated signal control
- Right turn overlaps

#### Proposed Safety Applications

- Leading pedestrian walk intervals
- Red light running all-red extension
- Pedestrian scramble (all-way walk)

### **General Vehicle Detection Technology**

The City of Nampa is currently upgrading general vehicle detection at project intersections using City funds. The Nampa Phase 1 ITS project will leverage new vehicle detection technology procured and installed by the City at the project's signalized intersections. Stop bar and advanced vehicle detection is essential for measuring vehicle demand along intersection approaches. Detection allows the traffic signal controller to adjust signal timing plans, activate pre-configured phases, and log vehicle counts and classification data. Vehicle detection can also support advanced signal controller logic to improve progression along the corridor and reduce delay at an approach. This detection technology will be used for standard signal timing parameters and is not expected to distinguish between modes (e.g. general vehicle, freight, emergency, and transit vehicles).

#### Proposed Mobility Applications

- Vehicle counts



- ATSPMs and real-time status reporting
- Variable lane use control based on peak period traffic volumes
- Coordinated signal control
- Future adaptive signal control

#### Proposed Safety Applications

- Red light running all-red extension

#### **Freight Detection Technology**

Freight detection technology could include (1) active detection, where an on-board system communicates with the roadside signal system or (2) passive detection, where roadside equipment detects the presence for a freight vehicle due to its size and shape. The project will evaluate both methods through a Systems Engineering process. Freight detection technology will allow freight priority at signalized intersections reducing delay in goods movement. This technology will also provide the City insight on freight movement throughout the corridor helping to prioritize freight investment. Figure 11 shows 19 proposed intersections receiving freight detection technology based on the existing freight routes shown in Figure 5.

#### Proposed Mobility Applications

- Freight vehicle counts
- Freight signal priority

#### **Transit Vehicle Detection Technology**

Transit vehicle detection technology will be upgraded at signalized intersections to support GTT's Opticom GPS system. This includes a GPS reader mounted to the signal pole mast arm and an upgraded phase selector card supporting IR and GPS as well as IP Ethernet communications for centralized reporting. Nearly all of Valley Regional Transit's coaches have the GTT on-board GPS radio installed. Transit vehicle detection technology will allow advance detection of transit vehicles supporting traffic signal timing strategies such as Transit Signal Priority (TSP) and queue jumps. Transit vehicles will benefit by receiving additional green time to clear the intersection and allowing transit vehicle to jump ahead of queued traffic. These strategies can improve transit vehicle schedule adherence (reliability) making public transportation more attractive increasing ridership which increases capacity along the corridor. Figure 11 shows 19 proposed intersections receiving transit detection technology where existing transit routes pass through these intersections as shown in Figure 7.

#### Proposed Mobility Applications

- Transit signal priority and queue jumps

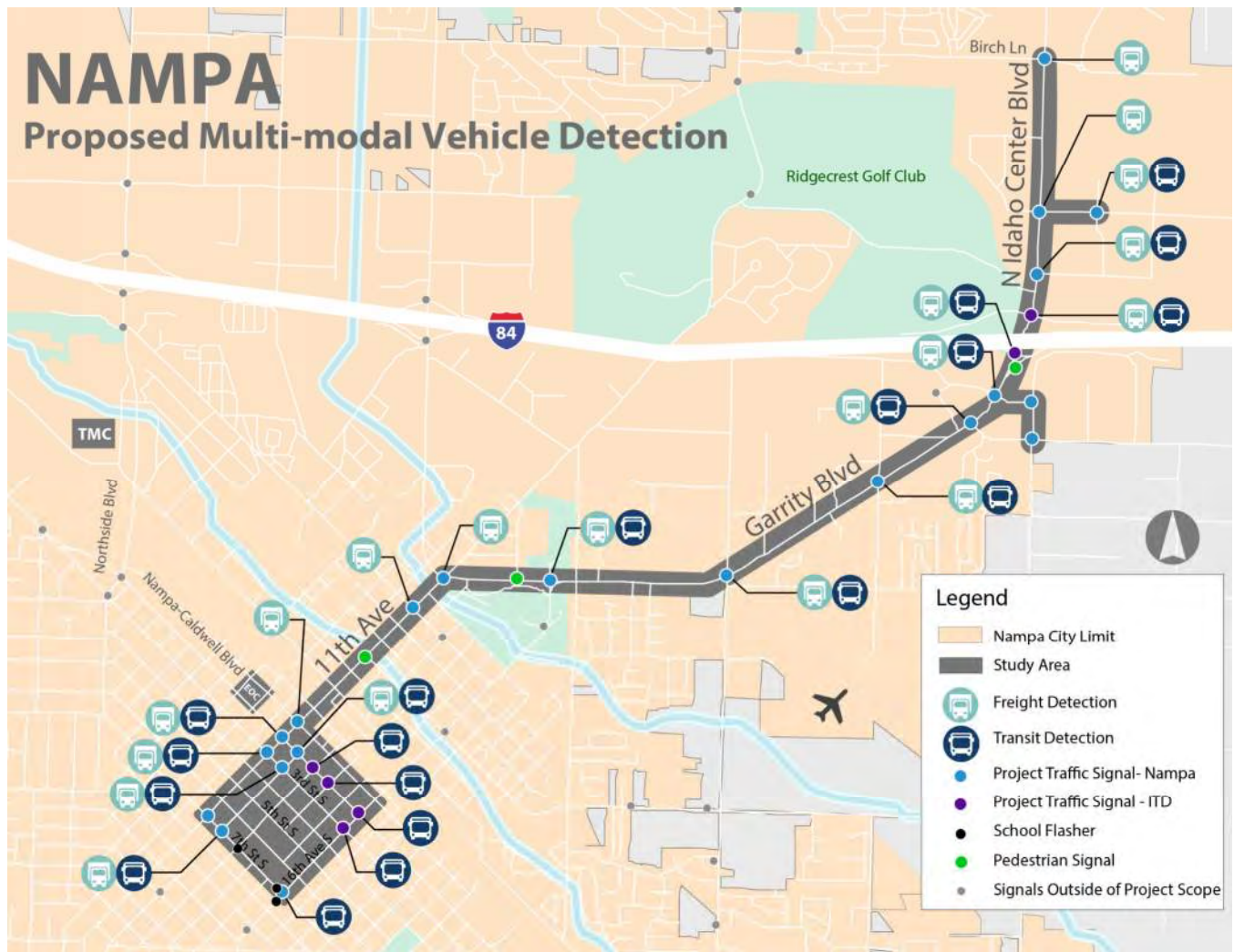
#### **Emergency Vehicle Detection Technology**

Emergency vehicle detection technology will be maintained using GTT's Opticom IR system. Emergency vehicles will continue to flash a preemption request to the traffic signal controller

providing them priority as the vehicle approaches the intersection. The Nampa Fire Department in the future may choose to upgrade their existing on-board GTT IR emitters to GTT GPS radios to improve detection. The GTT Opticom GPS technology installed for Transit Vehicle Detection will support emergency vehicles using IR or GPS.

Proposed Mobility Applications

- Emergency vehicle priority



**FIGURE 10. PROPOSED MULTIMODAL DETECTION MAP**

**CCTV Cameras**

Closed-circuit television (CCTV) cameras installed at the signalized intersection will provide live video feeds at the intersection and along the corridor. The project proposes CCTV cameras with the capability of both 360 static viewing technology and operator-controlled Pan-Tilt-Zoom (PTZ). The



360 static view will allow EOC operators to survey the entire intersection and surrounding business fronts and will primarily be used for public safety applications. The PTZ feature will allow TMC operators control of video feeds during incidents, special events, signal timing validation, etc. The CCTV camera will communicate over Ethernet communications back to a video management system housed at the EOC. The CCTV camera will meet Open Network Video Interface Forum (ONVIF) standards supporting interoperability with Internet Protocol (IP)-based security products. A Systems Engineering process will procure a CCTV camera and will also evaluate machine learning logic and video analytics. CCTV cameras will be installed at 19 Proposed CCTV installation locations are shown on Figure 11. The City has committed 2019 funds for five locations.

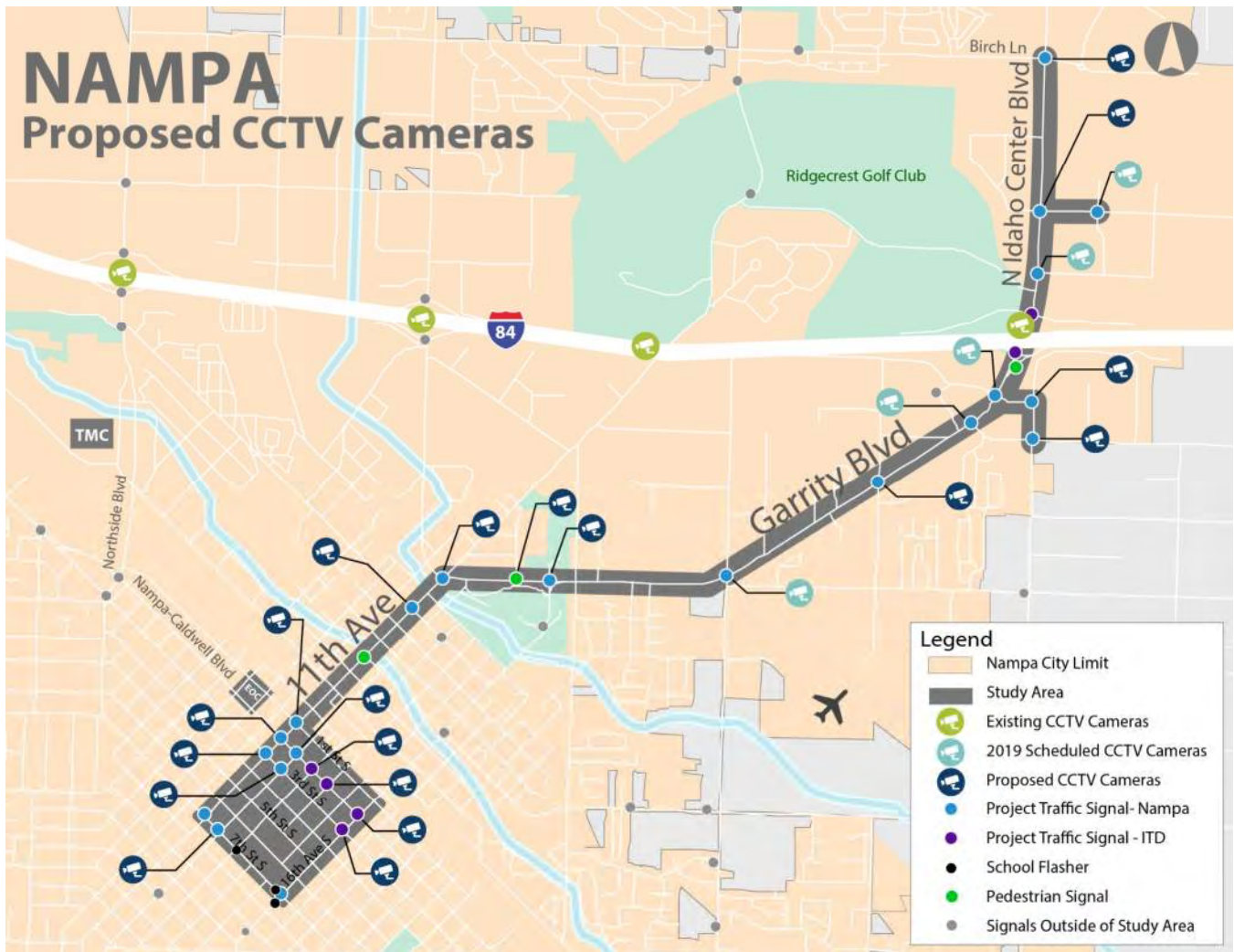
#### Proposed Mobility Applications

- Corridor operational performance monitoring

#### Proposed Safety Applications

- Public safety surveillance
- Incident monitoring and management
- Near-miss collision analysis





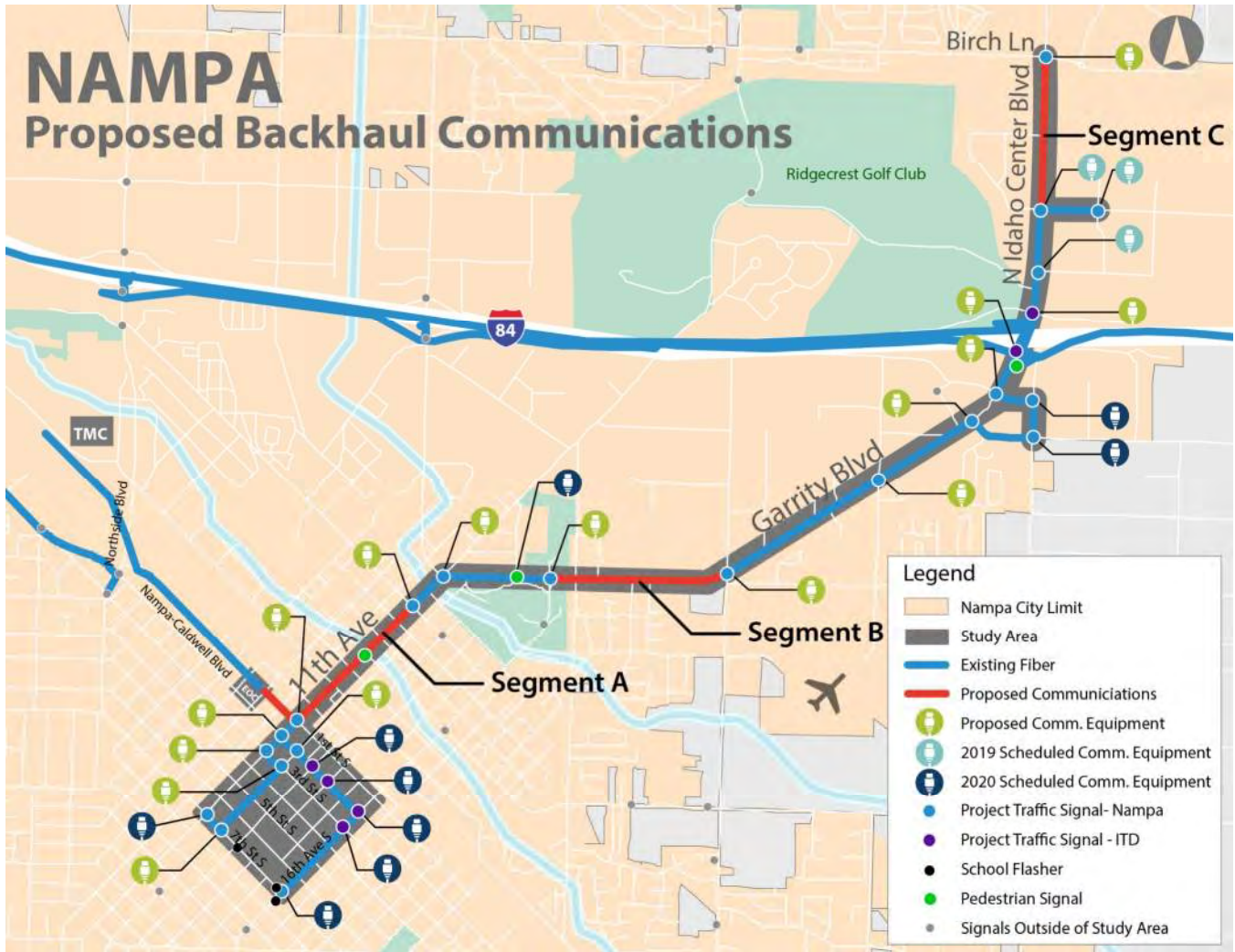
**FIGURE 11. PROPOSED CCTV CAMERA MAP**

**BACKHAUL COMMUNICATIONS**

Backhaul communications is essential for centralized monitoring and management of signalized intersection equipment. Common backhaul communications can include hardwired cabling and wireless communications. Underground fiber optic communications is the preferred communications infrastructure given the need to support high bandwidth demands of CCTV video monitoring and recording. The project has considered lower installation cost alternatives such as aerial fiber and wireless communications. Backhaul communications equipment will also include fiber optic patch panels and Ethernet switches installed at roadside signal controller cabinets as well as any necessary upgrades at the EOC and TMC. Figure 12 identifies the three main segments requiring communications infrastructure and intersections requiring communications equipment. For Segment A, underground fiber optic cable is proposed. For Segment B, aerial fiber optic cable is proposed which will attach to existing utility poles. For Segment C, wireless communications is



proposed as a cost-effective solution. The City has also committed funds in 2019 and 2020 for communications equipment upgrades at 12 intersections.



**FIGURE 12. PROPOSED BACKHAUL COMMUNICATIONS MAP**

**NAMPA POLICE EMERGENCY OPERATIONS CENTER (EOC)**

The Nampa Police EOC will be the main termination point for backhaul communications. Figure 13 shows the Nampa Police Department building which will house the EOC. The Nampa IT department currently maintains a server room with server racks, fiber optic patch panels, Ethernet switches, and firewalls. The EOC will include a dedicated room with video wall and operator workstations for CCTV video monitoring. EOC operators will be able to identify blocking incidents, coordinate incident management plans with police officers in the field, and review surveillance footage. The EOC will house the video monitoring and management system on servers located in the server room. An internet connection will allow for cloud-based video storage for up to three weeks of surveillance footage. The video monitoring and management will include analytics tools which





utilize video analytics and machine learning to identify vehicle movements and potentially license plate numbers. Video feeds and PTZ control of CCTV cameras will be shared with TMC operators over fiber communications between the EOC and TMC. The TMC will act as a backup and redundant EOC under special conditions.

#### Proposed Safety Applications

- Public safety surveillance investigation



**FIGURE 13. NAMPA POLICE DEPARTMENT BUILDING**

#### **CITY OF NAMPA TRAFFIC MANAGEMENT CENTER (TMC)**

The City of Nampa TMC will primarily function as a centralized signal system equipment management, configuration, and performance reporting space similar to the TMC shown in Figure 15. Signal technicians will utilize the TMC to reduce field visits by leveraging the proposed communications network connecting to roadside signal equipment. The TMC will also receive client access to the video monitoring and management system installed at the EOC. This would support TMC operators with incident management, signal timing validation, and near-miss safety analytics. Performance reporting dashboards will help signal technicians identify equipment failures in real-time, measure intersection movement demand flagging movements not receiving adequate green



time, and coordinate signal timing plans to improve progression along the corridor. The TMC will also act as the main interface between City of Caldwell and ITD central systems resulting in an integrated regional transportation system network.

#### Proposed Mobility Applications

- Vehicle count processing and reporting
- ATSPM processing and reporting
- Remote management of advanced signal operations
- Corridor operational performance monitoring
- Interagency video and data sharing

#### Proposed Safety Applications

- Near-miss analysis and reporting



**FIGURE 14. EXAMPLE TRAFFIC MANAGEMENT CENTER**

## KEY STAKEHOLDER ROLES AND RESPONSIBILITIES

The Nampa Phase 1 ITS project is primarily led by the City of Nampa Public Works, Nampa Police Department, and City of Nampa IT Department. Each stakeholder will take a lead responsibility role during the systems engineering, design, procurement, installation, operations, and maintenance phase of each major technology component as shown in Table 2. Key Stakeholder roles and responsibilities. In many cases, tasks will be accomplished in partnership with one another to ensure appropriate policies are followed and stakeholder needs are addressed.

**TABLE 2. KEY STAKEHOLDER ROLES AND RESPONSIBILITIES**

	<b>SIGNALIZED INTERSECTION EQUIPMENT</b>	<b>BACKHAUL COMMUNICATIONS</b>	<b>EMERGENCY OPERATIONS CENTER</b>	<b>TRAFFIC MANAGEMENT CENTER</b>
<b>SYSTEMS ENGINEERING</b>	Nampa PW <sup>a</sup>	Nampa PW <sup>b</sup>	Nampa PD <sup>c</sup>	Nampa PW <sup>b</sup>
<b>DESIGN</b>	Nampa PW <sup>a</sup>	Nampa PW <sup>b</sup>	Nampa PD <sup>c</sup>	Nampa PW <sup>b</sup>
<b>PROCUREMENT</b>	Nampa PW	Nampa PW <sup>b</sup>	Nampa PD	Nampa PW
<b>INSTALLATION</b>	Nampa PW	Nampa PW <sup>b</sup>	Nampa PD <sup>b</sup>	Nampa PW <sup>b</sup>
<b>OPERATIONS</b>	Nampa PW <sup>a</sup>	Nampa IT	Nampa PD	Nampa PW
<b>MAINTENANCE</b>	Nampa PW	Nampa IT	Nampa PD	Nampa PW

<sup>a</sup> Support from Nampa PD and Nampa IT

<sup>b</sup> Support from Nampa IT

<sup>c</sup> Support from Nampa PW and Nampa IT



## PROJECT COST ESTIMATE

The Nampa Phase 1 ITS project involves City of Nampa Public Works, Nampa Police Department, and City of Nampa IT Department. Each stakeholder will take a lead responsibility role for systems engineering, design, procurement, installation, operations, and maintenance of each project concept technology components as shown in Table 3. Project Estimate. In many cases, tasks will be accomplished in partnership with one another to ensure appropriate policies are followed and stakeholder needs are addressed.

**TABLE 3. PROJECT ESTIMATE**

### Project Estimate - Planning Level

Nampa ITS Phase 1 Project

ITEM #	ITEM DESCRIPTION	UNIT	UNIT COST	QTY	TOTAL
1	TRAFFIC SIGNAL MANAGEMENT SYSTEM	EA	\$ 150,000.00	1	\$ 150,000.00
2	FREIGHT DETECTION TECHNOLOGY	EA	\$ 5,000.00	19	\$ 95,000.00
3	TRANSIT VEHICLE DETECTION TECHNOLOGY	EA	\$ 8,000.00	19	\$ 152,000.00
4	CCTV CAMERA	EA	\$ 5,000.00	19	\$ 95,000.00
5	UNDERGROUND FIBER INSTALLATION - SEGMENT A	LF	\$ 60.00	3640	\$ 218,400.00
6	AERIAL FIBER INSTALLATION - SEGMENT B	LF	\$ 15.00	3100	\$ 46,500.00
7	WIRELESS COMMUNICATIONS - SEGMENT C	EA	\$ 5,000.00	2	\$ 10,000.00
8	COMMUNICATIONS EQUIPMENT	EA	\$ 8,000.00	15	\$ 120,000.00
9	VIDEO MANAGEMENT SYSTEM	EA	\$ 200,000.00	1	\$ 200,000.00
10	VIDEO WALL	EA	\$ 40,000.00	1	\$ 40,000.00
11	EMERGENCY OPERATIONS CENTER	LS	\$ 150,000.00	1	\$ 150,000.00
12	TRAFFIC MANAGEMENT CENTER	LS	\$ 35,000.00	1	\$ 35,000.00
SUBTOTAL					\$ 1,311,900.00
CONTINGENCY					20% \$ 262,380.00
<b>TOTAL</b>					<b>\$ 1,574,280.00</b>
SYSTEMS ENGINEERING					4% \$ 62,971.20
DESIGN					10% \$ 157,428.00
SYSTEM INTEGRATION/IT CONFIGURATION					3% \$ 47,228.40
CONSTRUCTION LABOR					10% \$ 157,428.00
<b>GRAND TOTAL</b>					<b>\$ 1,999,335.60</b>



## PROJECT SCHEDULE

Figure 15 outlines the proposed project schedule including Systems Engineering, Design, Procurement, Construction, and Project Commissioning. The City anticipates 2 to 2.5 years to complete the project. In general, Systems Engineering will occur in 2019, Design will occur in 2020, and Construction will occur in 2021. The City will proceed with the Systems Engineering task using City funds.

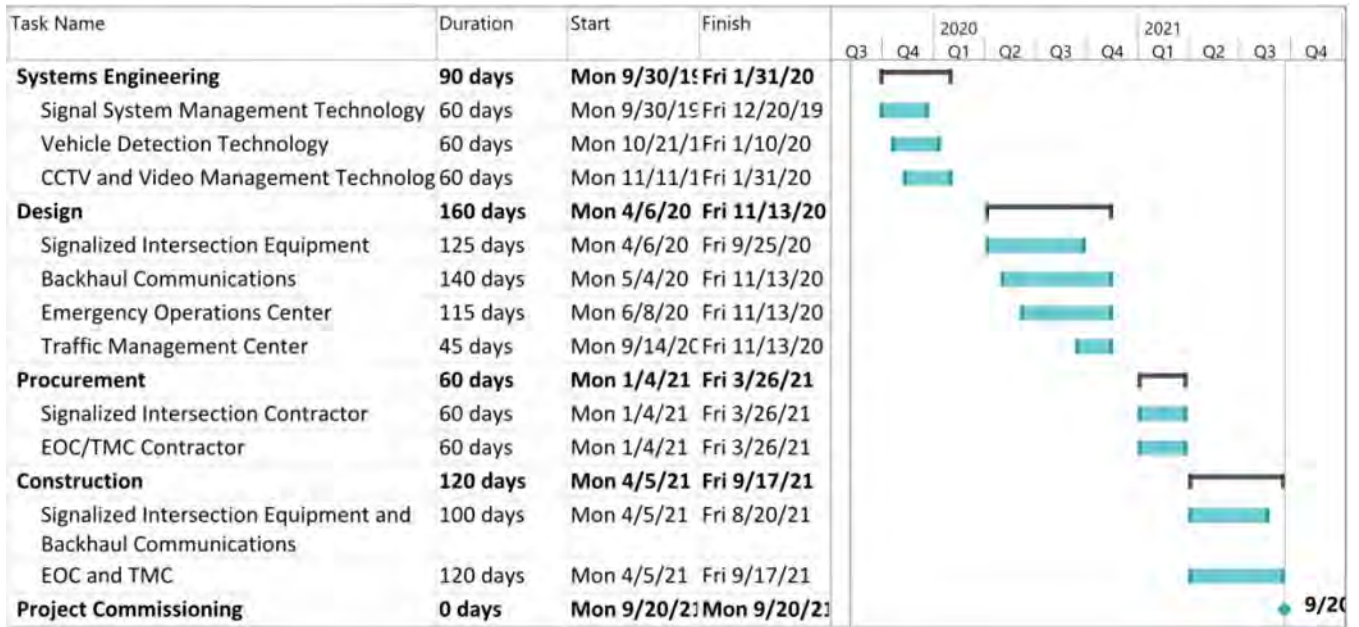
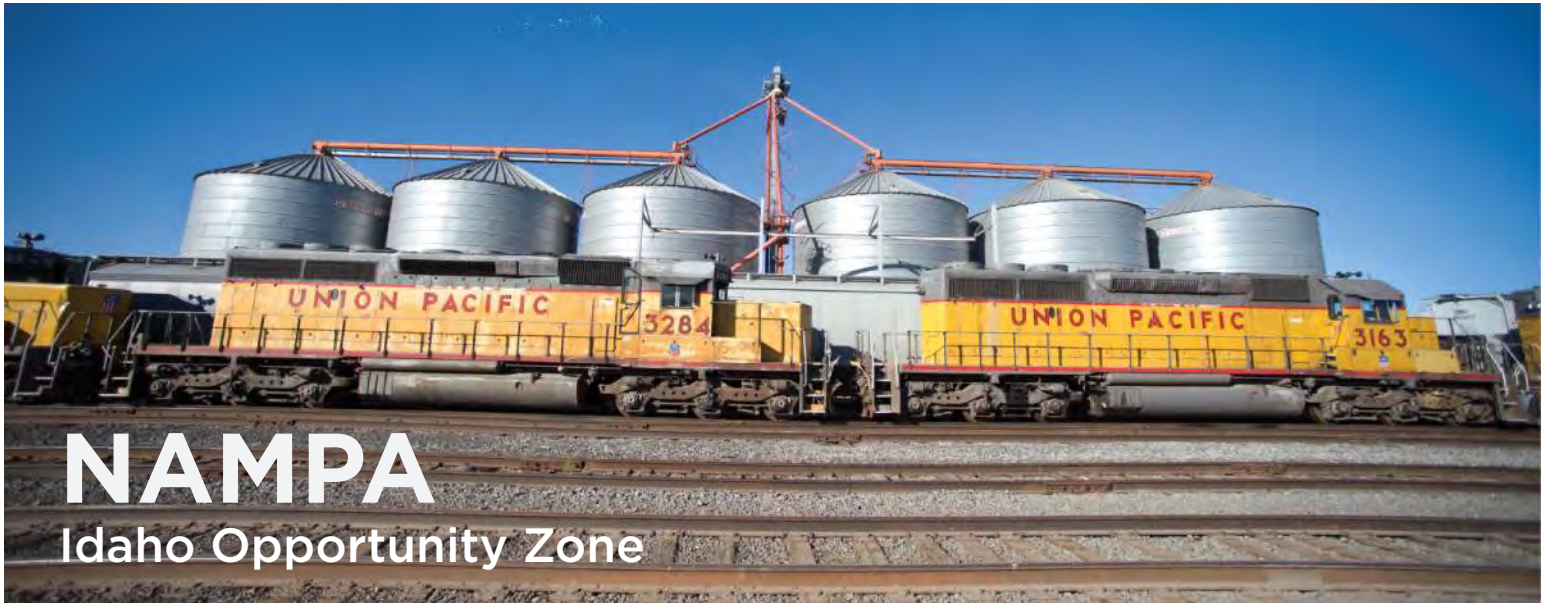


FIGURE 15. PROJECT SCHEDULE





# NAMPA

## Idaho Opportunity Zone

### OPPORTUNITY ZONE OVERVIEW

Located just north of downtown Nampa, this opportunity zone contains the iconic Lakeview Park and several historic homes.

This census tract is one of the most impoverished tracts in the Treasure Valley. The area lacks a grocery

store and contains several vacant commercial properties that are currently ripe for redevelopment.

Community improvements, including a pathway along Indian Creek, are planned to help spur residential redevelopment.

### WHAT'S IN THE ZONE?



Access to Interstate 84



More parks than any other area in the city of Nampa



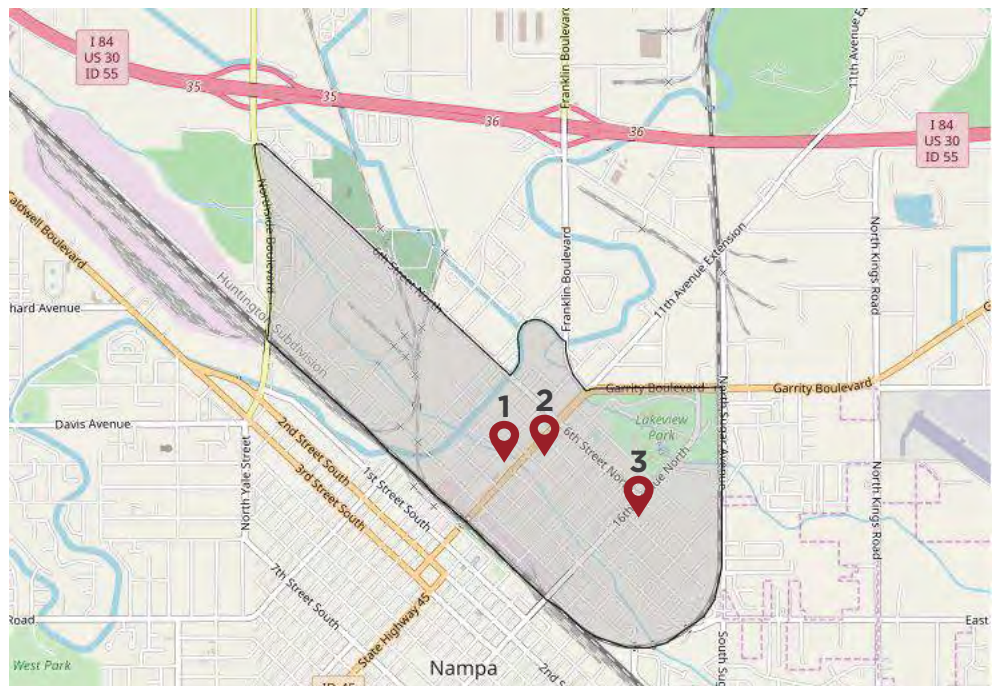
Industrial rail access for efficient movement of goods



Adjacent to the Hispanic cultural Center and Boys and Girls Club

### INVESTMENT SITES

- 301 11th Avenue North**  
3,200 square foot retail building on a main arterial road.
- 402 11th Avenue North**  
Two retail buildings on one parcel including former grocery store and multi-tenant strip center located on a major thoroughfare.
- 512 16th Avenue North**  
0.3 acres, three separate lots.



CENSUS TRACT 16027020200



## Quick Facts About Nampa, Idaho

# 94,079

Population

# 2.8%

Unemployment  
Rate

# \$45,404

Median Income

# 28.1%

Population With  
College Degree

### LOCAL PRIORITIES

In 2013, the opportunity zone lost Paul's Market, its local grocery store. The closing of the grocery store resulted in a significant loss of access to healthy, fresh food. Community partners are very interested in bringing a small grocery store back to the neighborhood.

Additionally, this opportunity zone has numerous zoning designations supporting a wide variety of housing, commercial and industrial land uses.

Long-term plans in this zone call for a continuous pathway along Indian Creek. Once complete, this pathway will likely spur residential redevelopment outside of the Indian Creek floodway.

### MAIN STREET

Nearby downtown Nampa is accredited as a Main Street Community by the National Main Street Center due to the city's dedication to revitalize the downtown district through preservation-based economic development and community revitalization.

### ACCOLADES

Nampa was named the No. 1 best-run city in the United States by WalletHub in 2017.

In 2015, Nampa was named No. 8 in the top ten most affordable places to live in the United States, according to Livability.com.



Beth Ineck, City of Nampa, [ineckb@cityofnampa.us](mailto:ineckb@cityofnampa.us), 208-468-5488

Robyn Sellers, City of Nampa, [sellersr@cityofnampa.us](mailto:sellersr@cityofnampa.us), 208-468-5430

Contact Idaho Commerce for information on doing business in Idaho  
[info@commerce.idaho.gov](mailto:info@commerce.idaho.gov) | 800.842.5858 | [www.commerce.idaho.gov](http://www.commerce.idaho.gov)

**POLE ATTACHMENT AND CONDUIT USE AGREEMENT**

**BETWEEN**

**IDAHO POWER COMPANY**

**AND**

CITY OF NAMPA

This POLE ATTACHMENT AND CONDUIT USE AGREEMENT (the "Agreement") is entered into by and between Idaho Power Company, an Idaho corporation authorized to do business in Idaho and with its principal office and place of business at 1221 W. Idaho Street, Boise, Idaho 83702 ("Idaho Power"), and City of Nampa, a governmental entity authorized to do business in the state of Idaho and having its principal office and place of business at 411 3<sup>rd</sup> Street South, Nampa, Idaho 83651 ("City of Nampa" or "Licensee") (who may hereinafter be referred to individually as a "Party" or collectively as the "Parties") as of this 7<sup>th</sup> day of MARCH, 2014 (the "Effective Date").

WITNESSETH:

WHEREAS, Licensee seeks to attach to Idaho Power's poles and/or make use of its conduit space; and

WHEREAS, in accordance with applicable laws, rules, and regulations, and according to the terms set forth herein, Idaho Power will permit the Attachment of Licensee's Equipment to its Facilities.

NOW, THEREFORE, in consideration of the mutual covenants, agreements, and benefits hereinafter set forth and for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, the Parties agree as follows:

**1. INCORPORATION OF RECITALS**

The above-stated recitals are incorporated and made a part of this Agreement by this reference to the same extent as if these recitals were set forth in full at this point.

**2. DEFINITIONS**

Capitalized terms in this Agreement and all exhibits and attachments hereto shall have the meanings set-forth below:

**Attachment** means, collectively or individually as applicable, any attachment to or occupation within or on Idaho Power Facilities.

**Communications Space** means that space located below the communication worker safety zone as defined by the current applicable standards as set forth in Section 9 entitled "Specifications" in this Agreement.



**Entry** means, collectively or individually as applicable, the act of first making an Attachment to Idaho Power Facilities.

**Facilities** means Idaho Power's poles, ducts, or conduits, as applicable.

**Joint Use Rate** means the annual rental rate to be paid by the Licensee to maintain an Attachment on Idaho Power's Facilities, which is listed on Exhibit C as the Pole Attachment Rate or Conduit Rate.

**Licensee's Equipment** means Licensee's cables, wires, or other equipment which may be attached to Idaho Power's Facilities.

**Permit** means Idaho Power's authorization for the Licensee to attach to or occupy Idaho Power's Facilities. This Permit will be in the form of an approved Exhibit A.

**Power Space** means the inside of power vaults and that portion of a pole that supports electric utility equipment as defined by the current applicable standards as set forth in Section 9 entitled "Specifications" in this Agreement.

**Service Drop** means a single span of overhead conductor between the Licensee's Attachment and the building or structure being served by the Licensee.

### **3. SCOPE OF AGREEMENT**

- A. This Agreement shall affect Licensee's Entry and Attachment to Facilities of Idaho Power now existing or hereafter erected or acquired in the state of Idaho.
- B. Idaho Power agrees to issue to the Licensee, for any lawful and authorized purpose, a nonexclusive, revocable Permit authorizing the Licensee to install, maintain, rearrange, transfer, and remove, at its sole expense, its Equipment to Idaho Power's Facilities, unless there is insufficient capacity or for reasons of safety, reliability, and generally applicable engineering purposes. Idaho Power provides access to its Facilities in accordance with the applicable federal, state, and local laws, rules, ordinances, or regulations which govern this Agreement in the state in which Facilities are provided. Nothing in this Agreement shall be construed to compel Idaho Power to construct, install, modify, or place any Facilities for use by the Licensee.
- C. Idaho Power may reserve space on its Facilities for the provision of its core utility service. In granting permission to use a Facility or Facilities upon which space has been reserved, Idaho Power may inform Licensee of the space reservation at the time the Permit is granted. Idaho Power shall permit use of its reserved space until such time as Idaho Power has a need for that space as determined by Idaho Power in its

sole discretion, which Idaho Power may recover the reserved space for its own use. Idaho Power shall give the displaced Licensee commercially reasonable notice of the reclamation of space as well as the opportunity to make alternate arrangements, if available, including but not limited to allowing Licensee to pay for any reasonable modifications needed to continue to accommodate the Attachments that would otherwise be displaced.

4. **TERM OF AGREEMENT** - Subject to the termination provisions of Section 30, the Parties hereto agree that the term of this Agreement shall begin on the Effective Date and shall continue in effect for a period of thirty (30) years, unless either Party provides at least sixty (60) days prior written notice to terminate this Agreement.
5. **COMPENSATION AND PAYMENT** - Licensee shall pay to Idaho Power for Joint Use Rates, Application Fees, and Other Fees (“Joint Use Rates and Fees”) made under this Agreement and as listed and described on Exhibit C. Joint Use Rates are calculated pursuant to rate formulas, which may be obtained by contacting Idaho Power.

Annual Joint Use Rates for Attachment to Idaho Power Facilities shall be invoiced in January of each year for use of Facilities for that calendar year. In the event Licensee begins using Idaho Power’s Facilities after the billing for a calendar year, Licensee shall not be required to pay applicable annual Joint Use Rates until the following January. No refunds or credits shall be given to Licensee in the event either Party terminates the Agreement prior to the end of a calendar year or Licensee disconnects its Equipment from Idaho Power’s Facilities prior to the end of a calendar year.

Application Fees accumulated during a calendar year and Entry fees not associated with Applications, if any, shall be invoiced and paid annually along with the annual Joint Use Rates in January of the following calendar year. The billing will reflect the number of Licensee’s Attachments in place and/or linear feet of conduit/duct occupied as of January 1<sup>st</sup> of the current year multiplied by the applicable Joint Use Rate.

Idaho Power may, at its sole discretion, update the Joint Use Rate and Fee Schedule in Exhibit C on an annual basis with thirty (30) days prior notice to Licensee. Licensee hereby agrees to pay such revised Joint Use Rates and Fees, unless Licensee has a good faith dispute regarding the changes to Exhibit C.

Payment for all rates and fees under the Agreement shall be due upon Licensee’s receipt of the invoice and payable within thirty (30) days of receipt. Invoices which are more than thirty (30) days past due shall accrue simple interest at the rate specified on Exhibit C in addition to any reasonable collections or attorneys’ fees incurred by Idaho Power in enforcing payment and/or collection of invoices. Non-payment of bills will constitute a default of this Agreement and Idaho Power will have the right to proceed as specified in Section 30 of this Agreement.

Any payments made by the Licensee under the foregoing provisions of this Agreement shall not in any way entitle Licensee to any ownership of such Facilities.

6. **APPLICATION** - With the exception of customer Service Drops, before making Entry or removing an Attachment to any Facilities of Idaho Power, including overlashing additional cables to an existing Attachment, or installing cable inside Idaho Power's duct, conduits, or vaults, Licensee shall make application in the form of submitting an Application, a copy of which is attached hereto as Exhibit A. The Licensee will be assessed the Application Fee specified on Exhibit C for each Application.

Except in cases of emergency (which shall mean imminent danger to public safety or imminent danger to the Facilities or Licensee's Equipment or other equipment on the Facilities), any relocation (unless by Idaho Power's request) or replacement of Licensee's Equipment on or in Idaho Power's Facilities shall require a new Application and Permit from Idaho Power.

7. **FIELDING AND PERMIT, MAKE READY, AND ENTRY**

**A. Fielding and Permit:** Once Licensee has made Application for Attachment to Idaho Power's Facilities via a completed Exhibit A, Idaho Power will perform a site review to determine if the Facilities are suitable for the Licensee to enter. Idaho Power will approve or deny Licensee's Application in writing within 45 days of the receipt of Exhibit A. If approved, the approved Exhibit A is Licensee's nonexclusive, revocable Permit authorizing the Licensee to install, maintain, rearrange, transfer, and remove, at its sole expense, its Equipment to Idaho Power's Facilities.

**B. Make Ready:** In the event that any Facilities of Idaho Power to which Licensee desires to make Entry are deemed by Idaho Power to be inadequate to support Licensee's Equipment in accordance with the specifications prescribed in Exhibit B, as reasonably interpreted by Idaho Power, Licensee may propose an alternate route by submitting a new Exhibit A or request that Idaho Power provide it with a Make Ready design estimate. If requested by Licensee in writing, Idaho Power will create a Make Ready design estimate to replace or modify such Facilities in order to accommodate Licensee's Equipment. Idaho Power will provide such Make Ready design estimate within fourteen (14) days of receipt of Licensee's written request. Such Make Ready design estimate will be billed on an hourly basis at the rate shown on Exhibit C for Engineering Fees.

Licensee shall accept or reject in writing the Make Ready design estimate within fourteen (14) days of receipt of the estimate. If Licensee accepts the Make Ready design estimate, Idaho Power will invoice Licensee as set forth in Section 5. If the Licensee does not pay the Make Ready design estimate invoice in total within thirty (30) days of receipt of invoice by Licensee, Idaho Power will consider the Make Ready design estimate rejected. Idaho Power shall complete Make Ready construction within sixty (60) days of receipt of Licensee's Make Ready design estimate payment. Idaho Power will refund or invoice the Licensee for the difference between actual costs and the Make Ready design estimate payment. If there is to be a refund, Idaho Power will refund Licensee within 30 days following the completion of Make Ready construction. If there is to be a bill for additional amounts owed, such amounts will be invoiced and due according to the provisions set forth in Section 5.

In the event the Licensee requests a Make Ready design estimate, and later decides it does not want Idaho Power to provide it with such Make Ready design estimate, Licensee shall pay Idaho Power for all time and expenses incurred while preparing the Make Ready design estimate prior to Licensee's notice to not go forward with said Make Ready design estimate.

An Exhibit A that requires Make Ready construction will not be considered approved until Make Ready construction has been completed and inspected.

Upon completion of the Make Ready construction, Idaho Power will provide Licensee with an approved Exhibit A and route maps showing the location of poles, conduits, and vaults associated with the relevant application and will include where the Licensee is to attach or enter the Facilities (e.g. location of Attachment in relation to other communications or power cables, roadside or field side of pole, location on cross arm, and use of standoff brackets). Nothing within this section shall relieve the Licensee from its obligations under Section 10.

C. **Entry:** Licensee shall have 180 days from the date of approval of its Exhibit A in order to attach to or utilize Idaho Power Facilities. In the event a Permit has been granted for Attachment to particular Idaho Power Facilities, but Licensee has not completed its Entry into or onto Idaho Power Facilities within a reasonable period of time (not to exceed 180 days), Licensee must resubmit an Exhibit A and begin the process outlined in this Section 7 anew. Idaho Power reserves the right to cancel or revoke Licensee's Permit upon thirty (30) days notice if Licensee has not completed Entry within 180 days.

8. **SERVICE DROPS** - Licensee shall have the right to install Service Drops without prior approval by Idaho Power. This includes Service Drops made from Facilities on which the Licensee may not originally have had an Attachment, as long as the Equipment is adjacent to Facilities on which the Licensee does have authorized Attachments. Prior notification is not required for the attachment of Service Drops where Licensee has an existing Attachment. However, when Licensee installs Service Drops, Licensee must follow all procedures applicable to Attachments generally and Licensee shall submit Application for such Attachment to Idaho Power within five (5) business days from the installation date. Notwithstanding the above, no notification shall be required for Service Drops that are mid-span self-supporting wire or wires, and that do not require the use of messenger strand and lashed cable. Required notifications of Service Drop installations shall contain information identifying the Facility to which the Service Drop was added and the amount of the new space on the Facility, if any, being used. With the exception of the requirements waived in this paragraph, Service Drop Attachments are subject to all other terms and conditions of this Agreement. Service Drops that necessitate additional attachment to, occupation within, or space upon Idaho Power Facilities will be considered a new Attachment or may, as context requires, expand the space occupied for purposes of calculating the Joint Use Rate formula for the original Attachment. Should Idaho Power deny permission to install the Service Drop, Licensee shall re-route the Service Drop as soon as practicable.

9. **SPECIFICATIONS** - Licensee shall, at its sole risk and expense, have its Attachments placed and maintained in accordance with the requirements and specifications of the current applicable standards of the latest edition of the National Electrical Safety Code (NESC), the Parties' current construction specifications, the Idaho Power Company Joint-Use Specifications (Overhead Distribution Manual, Underground Distribution Manual and Joint Use and Special Circuits Standards), and the Occupational Safety and Health Act and its implementing rules and related regulations, in a manner suitable to Idaho Power and substantially in accordance with the specifications provided in Idaho Power's relevant construction manuals, the Overhead Construction, Underground Construction, and Distribution Manuals, a current copy of which are attached hereto as Exhibit B, and any other applicable laws, rules, regulations, and orders, all of which are incorporated herein by this reference, and any governing authority having jurisdiction of the subject matter of this Agreement. Where a difference in specifications exists, the more stringent shall apply. Idaho Power shall provide Licensee with any updated Idaho Power construction manuals as soon as practicable. Licensee shall not be held to altered or updated construction manual standards for a period of ninety (90) days after receipt of the manuals. Licensee agrees to correct any conditions that violate any of the aforementioned provisions within the timelines set forth in the Section 18 entitled "Non-Complying Attachments." Licensee's failure to correct said condition(s) within the specified time limit or failure by the Licensee to maintain Attachments in accordance with the above requirements shall be cause for termination of the relevant Attachment by Idaho Power, as defined under Section 30 of this Agreement. Idaho Power's procedures governing its standard maintenance practices shall be made available upon request for public inspection at the appropriate Idaho Power Facilities. Licensee's procedures governing its standard maintenance practices and relevant construction specifications for Attachments shall be made available to Idaho Power upon reasonable request. The Licensee shall comply with all requests from Idaho Power made pursuant to this Agreement to bring its Attachments into compliance with these terms and conditions.

When, in the sole opinion of Idaho Power, existing anchors are adequate in size and strength to support the equipment of both Parties; the Licensee may attach its guys thereto at no additional cost. When the existing anchors are not of adequate size and strength, such determination to be at the sole discretion of Idaho Power, the Licensee, at its own expense, shall install new anchors to accommodate its Attachments. The Licensee is responsible for properly guying and anchoring the poles to support the additional longitudinal loads caused by its Attachments. Down guys shall be properly installed to prevent slack in existing guys. Licensee is solely responsible for complying with span clearance requirements.

10. **MAINTENANCE AND ACCESS** - Licensee shall, at its own expense, maintain all of Licensee's Equipment located on or in Idaho Power's Facilities in a safe condition in a place and manner satisfactory to Idaho Power and so as not to conflict with Idaho Power's use of Facilities or any third party's attachments, cables, and equipment attached to Idaho Power's Facilities.

In cases of emergency (defined to mean that imminent danger to public safety or imminent damage to the Facilities or Licensee's Equipment or others on the Facilities),

Idaho Power may, at Licensee's cost and expense, relocate or transfer Licensee's Equipment to substituted Idaho Power Facilities or perform any other emergency work in connection with such Licensee's Equipment that may be required for the service needs of Idaho Power or other entity using such Idaho Power Facilities.

Physical access to any Attachment located above the Communications Space may be limited by the availability of a scheduled power line outage. Scheduled outages are subject to seasonal load conditions and must be coordinated with Idaho Power. If a scheduled outage can be coordinated with Licensee, communication workers must be escorted into the Power Space by fully trained and authorized personnel approved by Idaho Power. Any Attachments above the Communications Space may result in additional costs charged to the Licensee associated with scheduling the power line outage and use of Idaho Power's trained personnel. Such charges are described in Exhibit C as the Power Space Entry Fee. Licensee understands that there are significant safety concerns associated with Attachments above the Communications Space. If Licensee, its personnel, agents, or workers gain access above the Communications Space, whether or not escorted by Idaho Power and regardless of liability provisions located elsewhere in this Agreement, the Licensee shall assume all risk of injury, death, or damage to person or property related to or caused by such access to the space.

Licensee, its employees and its contractors, shall at all times exercise Licensee's rights and perform Licensee's responsibilities under the terms of this Agreement in a manner that treats all Facilities as energized at all times. Licensee shall assume complete responsibility for its employees' or contractors' conduct and Licensee shall determine and provide the appropriate training and safety precautions to be taken by Licensee's employees and contractors. Licensee shall indemnify, defend, and hold Idaho Power harmless from any liability of any kind arising from Licensee or Licensee's employees' or contractors' failure to abide by the terms of the section.

The Parties shall exercise all necessary precautions to avoid causing damage to the other Party's Facilities and its Equipment and other third party attachers' equipment and shall assume responsibility to each other for any and all loss from any damage to the other Party's Facilities and its Equipment and reimburse the other Party for the entire expense incurred in making such repairs. Each Party shall assume responsibility to third parties for any and all loss from any damage caused to third party's equipment by such Party and shall reimburse such third party for the entire expense incurred in making repairs.

11. **TREE TRIMMING** - Any tree trimming Licensee determines is required for Licensee's Equipment shall be the responsibility and obligation of the Licensee, and shall take into account current NESC standards and considerations for tree trimming.
12. **TRANSFERS** - Idaho Power, as a result of construction, maintenance, repair, or other improvements made to its Facilities ("Work") and at its sole discretion, may require that Licensee remove or transfer its Equipment from Idaho Power's existing Facilities to new or alternate Facilities. Any new or alternate Facility shall be sufficient to accommodate Licensee's Equipment unless there are safety, capacity, reliability, or engineering concerns preventing such accommodation. If such new or alternate Facility is located on

private property, Licensee shall obtain its own easement or other lawful right to attach to the new or alternate Facility as set out in Section 15.

Idaho Power shall provide fourteen (14) days prior notice to Licensee that Idaho Power is commencing its Work and that Licensee's Attachments and Equipment must be relocated or transferred as provided in this section, except in cases of emergency in which case notice shall be provided as soon as practicable. Idaho Power will notify Licensee upon completion of its Work, and Licensee shall have thirty (30) days after receipt of such notice to transfer its Attachments. If the Licensee fails to transfer its Attachments within said thirty (30) days, then Idaho Power shall have the right, at its sole discretion, to: a) transfer Licensee's Equipment to new Facilities and Licensee will reimburse Idaho Power for all expenses for such transfer; or b) assess Licensee a monthly Non-Complying Attachment Fee in an amount shown on Exhibit C for Licensee's failure to transfer its Equipment.

13. **REMOVAL** - Licensee may, at any time, remove its Equipment from any Idaho Power Facilities, and shall give written notice prior to such removal by completing the applicable portion of Exhibit A and sending it to Idaho Power.

In the event Licensee fails to make application for removal of attachments, cables, and equipment in the form of Exhibit A, Licensee shall continue to pay to Idaho Power the applicable annual Joint Use Rate until Licensee makes proper application for removal.

14. **INSPECTION OF ATTACHMENTS** - Idaho Power may inspect any or all of Licensee's Attachments from time-to-time without providing Licensee any notice thereof. Idaho Power may conduct an inspection at any time after attachment of Licensee's Equipment (a "Post Inspection"). If non-complying Attachments are found at any time, the Licensee shall reimburse Idaho Power the costs of any re-inspections as required. Idaho Power will give the Licensee at least fourteen (14) days advance written notice of such re-inspection, except in those instances, where, in the sole judgment of Idaho Power, safety or electrical system reliability or pole or conduit integrity considerations justify the need for such an inspection. A Licensee's representative may accompany Idaho Power on such re-inspections. The making of periodic inspections, or failure to make such inspections, shall not impose any liability of any kind upon Idaho Power nor relieve Licensee of any responsibilities, obligations, or liability assumed under this Agreement.

15. **CONSENTS, PERMITS, AND/OR LICENSES** - Licensee's authority to erect and maintain its Equipment upon Idaho Power's Facilities is conditional upon Licensee obtaining the necessary consents, permits, licenses, easements, rights-of-way, or grants necessary from landowners and from federal, state, or local authorities, as the case may be. This Agreement does not grant to Licensee the right to utilize the public or private property where Idaho Power's Facilities are located. If, after a Permit is granted, Idaho Power determines that the Licensee does not have the necessary consent from landowners or other authorities, Idaho Power may revoke the Permit. Licensee agrees to indemnify, defend, reimburse, and hold harmless Idaho Power from, for, and against any and all claims, demands, lawsuits, losses, costs, and damages, including attorneys' fees, arising from or relating to Licensee's failure, or alleged failure, to have the requisite authority.

Licensee shall procure, and upon request, shall submit to Idaho Power, evidence of its authority to erect and maintain Licensee's Equipment within public streets, highways, and other thoroughfares, and shall secure any necessary consent from federal, state, or local authorities or from private landowners to construct and maintain Licensee's Equipment on Idaho Power's Facilities which Licensee desires to use.

16. **UNPERMITTED ATTACHMENTS** - In the event Licensee's Equipment is attached to Idaho Power's Facilities, but Licensee has not received a Permit from Idaho Power for said Attachment of Licensee's Equipment, Idaho Power may, in addition to any other rights it may have under the terms of this Agreement or pursuant to applicable laws, rules, regulations, or orders, impose a charge for each Attachment, require the removal of the Attachment(s) at the sole cost of the Licensee, or both. Idaho Power shall charge Licensee an Unpermitted Attachment Fee, which, unless otherwise specified shall be in the amount specified on Exhibit C for each Unpermitted Attachment plus the equivalent of five (5) years back rental (i.e. applicable Joint Use Rates) for each Unpermitted Attachment on an annual basis until Licensee submits an application for each Attachment. The charge for five (5) years back rental may be reduced, at Idaho Power's sole discretion, if a Licensee can prove, within thirty (30) days of Idaho Power's notice of the Unpermitted Attachment, the actual date of Entry of said Unpermitted Attachment.

Nothing herein shall relieve Licensee from making application and receiving a Permit from Idaho Power prior to Entry or Attachment to Idaho Power's Facilities, and action or inaction by Idaho Power shall not be deemed to be a ratification of said Facility use or a waiver of any right that Idaho Power may have under this Agreement with respect to an Unpermitted Attachment. Idaho Power may not apply the Unpermitted Attachment Fee to any Unpermitted Attachment on Idaho Power's system that was made prior to the date of this Agreement, if Licensee follows the necessary procedures to obtain a Permit for such Unpermitted Attachment from Idaho Power within six (6) months after the date of this Agreement.

17. **UNAUTHORIZED ATTACHMENT** - Upon delivery to Licensee of notice that the use of any Facilities is unauthorized, forbidden by property owners, or by federal, state, or local authorities, Licensee shall have sixty (60) days to remedy an Unauthorized Attachment. If the Licensee fails to remedy such Unauthorized Attachment within sixty (60) days, unless the Parties have mutually agreed in writing to an extension of time, the Permit covering the Attachment to such Facilities shall immediately terminate and Licensee's Equipment shall be removed at once from the affected Facilities. After sixty (60) days from delivery by Idaho Power of initial written notice to Licensee, or such extended time agreed to by the Parties, Idaho Power may remove Licensee's Equipment at Licensee's sole risk and expense. If a conflict to the right of Attachment, use, or occupancy occurs, it will be the responsibility and expense of the Licensee to show proof as to the right of such Attachment, use, or occupancy.

Licensee agrees to indemnify, defend, reimburse, and hold harmless Idaho Power from, for and against any and all claims, demands, lawsuits, losses, costs and damages,



including attorneys' fees, arising from or relating to Licensees Unauthorized Attachment(s) to the affected Facilities.

18. **NON-COMPLYING ATTACHMENTS** - If any Permit or Entry or Attachment to Idaho Power's Facilities is found to be in violation of this Agreement or the terms of the Permit, such use, Entry, or Attachment will be referred to as a Non-Complying Attachment. The provisions of this section shall apply in addition to other rights that Idaho Power may have under the terms of this Agreement or pursuant to applicable laws, rules, regulations, or orders.

Idaho Power shall notify Licensee of a Non-Complying Attachment and will categorize it as a low or high level violation using Categories 1-4, with Category One being the most severe violation. Upon notice of a Non-Complying Attachment, the Licensee shall have time to respond with a correction or a plan and correction as follows:

<b>Category</b>	<b>Time to Respond</b>	<b>Action Required</b>
One	24 hours	Correct the violation.
Two	30 days	Correct the violation.
Three	60 days	Submit a plan.
	Within 6 months	Correct the violation.
Four	60 days	Submit a plan.
	Within 1 year	Correct the violation.

The time to respond shall begin upon delivery by Idaho Power of notice specifying the Non-Complying Attachment(s) and shall apply unless the Parties have mutually agreed to an extension of time in writing. Should the Licensee fail to correct such Non-Complying Attachment within the times described above or such extended time agreed in writing to by the Parties, Idaho Power may assess and the Licensee shall pay a Non-Complying Attachment Fee, which, unless otherwise specified shall be in the amount specified on Exhibit C for each Non-Complying Attachment. In addition, upon the expiration of the time periods listed above, Idaho Power shall have the right to correct such Non-Complying Attachment at Licensee's expense.

In the event Idaho Power determines such Non-Complying Attachment is an immediate threat to the safety of utility workers or the public, interferes with the performance of Idaho Power's or third party attachers' service obligations, or is an immediate threat to the electrical system reliability or integrity of Idaho Power's or third party attachers' Facilities or equipment, Idaho Power may perform or authorize such work and/or take such action that it deems necessary in its sole discretion without first giving written notice to Licensee and without subjecting itself to any liability, except to the extent of Idaho Power's negligence or willful misconduct. As soon as practicable thereafter, Idaho Power shall advise Licensee in writing of the work performed or the action taken and shall endeavor to arrange for the accommodation of any affected Attachments. The Licensee shall reimburse Idaho Power or third party attachers, if applicable, upon invoice, for the entire expense thereby incurred by Idaho Power or third party attachers to remedy the violation, including but not limited to all work, removal, and inspection expenses related to identifying Non-Complying Attachments.

Licensee agrees to indemnify, defend, reimburse, and hold harmless Idaho Power from, for and against any and all claims, demands, lawsuits, losses, costs, and damages, including attorneys' fees, arising from or relating to Licensees Non-Complying Attachment(s).

19. **LIMIT OF LIABILITY** - Idaho Power reserves to itself and to any other entity licensed to use attachments, cables, and equipment upon its Facilities, the right to maintain said Facilities, and to operate its attachments, cables, and equipment thereon in such manner as will best enable them to fulfill its own service requirements. Idaho Power shall not be liable to Licensee for any interference with the operation of Licensee's Equipment, arising in any manner from the use of Idaho Power's Facilities and the attachments, cables, and equipment thereon by Idaho Power and each such other entity, except to the extent of the gross negligence or willful misconduct of Idaho Power.
20. **PROTECTION OF PERSONS AND PROPERTY** - Licensee agrees to take any and all necessary precautions, by the installation of protective equipment or otherwise, to protect all persons and property against injury or damage that may result from Licensee's Attachments to Idaho Power's poles. If, in Idaho Power's reasonable opinion, Licensee has not taken such necessary precautions, Idaho Power shall have the right to terminate the Permit herein granted upon at least thirty (30) days prior written notice to Licensee or, in the case of an emergency, immediately. However, Idaho Power shall not be considered in any way responsible for injury or damages to person(s) or property resulting from such adequacy or inadequacy of such precautions of Licensee. Licensee shall compensate Idaho Power in full for any damage or injury caused by Licensee, its employees, agents, or contractors, to Idaho Power property or employees.
21. **WARRANTIES** - Both Parties represent and warrant that its work in constructing and maintaining Attachments covered by this Agreement shall be consistent with prudent utility practices. Idaho Power disclaims all other warranties, express or implied, including but not limited to the warranty of merchantability, fitness for particular purpose, and similar warranties. Idaho Power's liability to Licensee for any action arising out of its activities relating to this Agreement shall be limited to repair or replacement of any defective Facilities. Under no circumstances shall Idaho Power be liable to Licensee for any economic losses, costs, or damages, including but not limited to special, indirect, incidental, consequential, punitive, or exemplary damages.
22. **INDEMNIFICATION** - Licensee shall indemnify, defend, reimburse, and hold harmless Idaho Power and Idaho Power's officers, directors, shareholders, employees, agents, contractors, and servants, and their successors and assigns, (collectively, the "Indemnitees"), from, for, and against any and all claims, losses, damages, expenses, actions, judgments, and penalties, including, without limitation, reasonable attorneys' fees and expenses, (collectively, "Claims"), arising from or relating to any damages to property and injury or death to persons which may arise out of or be caused by: (a) Licensee's (or Licensee's agent or other party under the control or direction of Licensee) erection, maintenance, presence, use, or removal of Licensee's Equipment, including, without limitation, any relocation, replacement, renewal, or removal required by Idaho

Power under this Agreement or any removal performed by Idaho Power pursuant to any paragraph of this Agreement; (b) any act of Licensee on or in the vicinity of Idaho Power's poles and conduits; or (c) other liabilities arising from any interruption, discontinuance, or interference with Licensee's service to its customers which may be caused, or which may be claimed to have been caused, by any action of Idaho Power undertaken in furtherance of the purposes of this Agreement; provided that such damages, injuries, or death are not directly caused by the gross negligence or willful misconduct of Idaho Power or a third party not under the direction or control of Licensee. Under no circumstances shall Idaho Power be liable for any economic losses, costs, or damages, including but not limited to special, indirect, incidental, consequential, punitive, or exemplary damages.

In addition, Licensee shall, upon demand, and at its sole risk and expense, defend any and all suits, actions, or other legal proceedings which may be brought against Idaho Power, or its Indemnitees, on any Claims arising from or relating to any interruption, discontinuance, or interference with Idaho Power's service to Idaho Power's customers to the extent caused, or which may be claimed to have been caused, by any action of Licensee or its agents. To the extent Licensee or its agents shall be found to have caused such interruption, discontinuance, or interference, Licensee shall pay and satisfy any judgment or decree which may be rendered against Idaho Power, or its Indemnitees, in any suit, action, or other legal proceeding; and further, Licensee shall reimburse Idaho Power for any and all legal expenses, including attorneys' fees, incurred in connection therewith, including appeals thereof.

The obligations of the Licensee hereunder shall survive this Agreement and shall be binding on the heirs, successors, and assigns of the Licensee to the fullest extent allowed by law.

23. **REMEDIES FOR DEFAULT** - If either Party shall default in any of its obligations under this Agreement and such default continues thirty (30) days after written notice thereof has been provided to the defaulting Party, the Party not in default may exercise any of the remedies available to it. Provided however, in such cases where a default cannot be cured within the thirty (30) day period by the exercise of diligent, commercially reasonable effort, the defaulting Party shall have an additional sixty (60) days to cure the default for a total of (90) days after the Party not in default provides its notice of default. The remedies available to each Party shall include, without limitation: (i) refusal to grant any additional permission for Attachments to the other Party until the default is cured; (ii) termination of this Agreement; and (iii) injunctive relief.
24. **INSURANCE** - The Licensee, at its own expense, shall procure and maintain, during the entire term of this Agreement, the following types of insurance with limits as specified on Exhibit C:
- A. **Workers' Compensation Insurance** shall be at statutory limits and shall comply with the laws of the state in which the work is to be performed. An endorsement shall be issued for waiver of subrogation in the name of Idaho Power.

**Employer's Liability Insurance** shall have the minimum limits found on Exhibit C:

- B. Automobile Liability Insurance** covering all owned, non-owned, or hired automobiles used in connection with the work performed under this Agreement. Bodily Injury and Property Damage Liability limits shall not be less than the amount specified on Exhibit C for each accident Combined Single Limit. An endorsement shall be issued naming Idaho Power as an additional insured.
  - C. Commercial General Liability Insurance** with limits not less than the amount specified on Exhibit C for each occurrence Combined Single Limit. The insurance shall include coverage for Premises and Operations, Broad Form Property Damage, Contractual Liability, Idaho Power's & Contractor's Protective Liability, Products and Completed Operations (extended for at least 12 months after completion of the operations) and Personal Injury. The policy shall also include coverage for the hazards commonly referred to as XCU (explosion, collapse and underground). An endorsement shall be issued naming Idaho Power as an additional insured.
  - D.** Any of the Licensee's subcontractors of any tier shall be required by the Licensee under the terms of any subcontract to obtain like insurance coverage to that specified in Paragraphs A, B, C and E of this section.
  - E.** Insurance coverage described in Paragraphs A, B, C and D above shall be carried with insurance companies reasonably satisfactory to Idaho Power. Upon execution of this Agreement, Licensee shall provide to Idaho Power a Certificate of Insurance evidencing such insurance coverage and naming Idaho Power Company as an additional insured on the coverage described in Paragraphs B and C and provide for waiver of subrogation on the coverage described in subsection A. These certificates shall contain a provision that coverage afforded shall not be canceled until at least thirty (30) days prior written notice has been given to Idaho Power.
  - F.** If requested by Idaho Power, Licensee shall provide a copy of the original insurance policies and all endorsements.
- 25. BOND** - Licensee will furnish a bond, issued by a company selected by the Licensee and reasonably satisfactory to Idaho Power, to cover faithful performance by Licensee of all terms and provisions of this Agreement. The amount of the bond will be determined on the basis of the number of pole attachments as set forth on Exhibit C. The amount of the required bond may be changed from time to time by Idaho Power if Licensee has failed to comply with the provisions of the Agreement or due to an increase in the number of pole attachments. Upon execution of this Agreement, the Licensee will immediately obtain and furnish a bond of the amount requested. Failure to furnish such bond within a reasonable time shall be grounds for termination as specified in Section 30 of this Agreement.
- 26. TAXES** - Licensee will promptly pay any tax, fee, or charge that may be levied or assessed against Idaho Power's Facilities solely because of use by Licensee (collectively, a "Tax"). If Licensee shall fail to pay any such Tax on or before such Tax becomes

delinquent, Idaho Power, at its option, may pay such Tax on account of Licensee, in which case Licensee will promptly reimburse Idaho Power for the full amount of Tax so paid plus simple interest at the rate called for on Exhibit C until the full amount of the Tax is reimbursed. If Licensee disputes such Tax, Licensee shall (1) notify Idaho Power of said dispute to ensure that Idaho Power does not pay the Tax on Licensee's behalf, and (2) remedy dispute with Parties making said Tax.

27. **NO THIRD PARTY BENEFICIARIES; NOT EXCLUSIVE** - No persons or entities, including without limitation, subcontractors at any tier, shall be deemed to be third party beneficiaries of this Agreement. This Agreement is not exclusive; nothing herein contained shall be construed as affecting the rights or privileges previously conferred by Idaho Power to third parties to use any Facilities covered by this Agreement; and Idaho Power shall have the right to continue and extend such rights or privileges to other third parties.
28. **NO OWNERSHIP** - The use of Idaho Power's Facilities under this Agreement shall not create or vest in Licensee any ownership or property rights in said Facilities, and Licensee's rights therein shall be and remain a mere license. Nothing herein contained shall be construed to compel Idaho Power to maintain any of said Facilities for a period longer than demanded by its own service requirements, including, without limitation, the installation of underground Facilities of Idaho Power, nor shall such Agreement be construed to obligate Idaho Power to grant Licensee permission to use any particular Facilities or provide for alternate Facilities for use of Licensee.
29. **ASSIGNMENT OF RIGHTS** - Licensee shall not sublet its Attachments or the privileges granted herein without the prior written consent of Idaho Power. Neither this Agreement nor any rights or obligations of Licensee hereunder may be assigned, in whole or in part, by operation of law or otherwise, without the prior written approval of Idaho Power. A transfer or change in the person or entities who control ten percent (10%) or more of the equity securities or voting interest of Licensee (whether in a single or multiple separate transactions resulting in such a change in control of equity interest or voting securities) shall be deemed an assignment of this Agreement requiring the prior written consent of Idaho Power for the purposes of the foregoing sentence. Any purported assignment in derogation of the foregoing shall be void. Idaho Power's consent to such sublease or assignment shall not be unreasonably withheld, conditioned, or delayed. Nothing in this section shall prevent or limit the Licensee from subletting or leasing capacity within Licensee's Equipment.
30. **TERMINATION**
- A. For Cause.** Either Party may terminate this Agreement for the other Party's material breach of this Agreement. Material breach shall include, but not be limited to, non-payment of any fees or uncorrected violations. Upon receipt of written notice of termination, the breaching Party shall have thirty (30) days to remedy the material breach, unless the Parties have mutually agreed to an extension of time in writing. If, after thirty (30) days or such mutually agreed upon time, the breaching Party fails to

remedy the breach, this Agreement shall terminate and Licensee shall immediately remove its Equipment from all Idaho Power Facilities.

**B. For Convenience.** This Agreement may be terminated for any reason by either Party hereto upon written notice delivered to the other Party at least sixty (60) days prior to the intended date of termination.

**C. Effect of Termination.** Upon termination or expiration of this Agreement, all obligations of the Parties (other than obligations that expressly or by nature survive termination) shall terminate. Termination of this Agreement shall not nullify liabilities and obligations incurred prior to the date of termination. Immediately upon termination, Licensee shall remove its Equipment from Idaho Power Facilities. If not so removed, Idaho Power shall have the right to remove Licensee's Equipment at Licensee's expense. No refunds or credits for Joint Use Rates or Fees shall be given to Licensee in the event either Party terminates the Agreement prior to the end of a calendar year.

**31. ATTORNEYS' FEES & COSTS** - In the event that legal action arises between the Parties relating to this Agreement, or to interpret or enforce any rights under this Agreement, the prevailing Party may recover all reasonable attorneys' fees and costs incurred in prosecution or defense of the legal action (including, without limitation, any fees on appeal).

**32. NOTICE** - Except as otherwise provided for herein, all notices shall be given to the Parties as follows:

**If to Idaho Power:**

Joint Use Department (BP-4)  
Idaho Power Company  
1221 W. Idaho St.  
Boise, ID 83702  
Telephone: 208-388-2886  
Email: LJointUseDepartment@idahopower.com

**If to Licensee:**

Dennis D. Elledge - Director, Information Technology  
City of Nampa  
820 2<sup>nd</sup> Street South  
Nampa, ID 83651  
Telephone: 208-468-5480  
Email: elledged@citynampa.us

All notices regarding breach, default, or termination of the Agreement shall be sent by prepaid U.S. certified mail, return receipt requested, or overnight courier to the above addresses.

All notices to Licensee regarding violations, non-compliance, inspection, relocation, transfer, removal, or the like, shall be sent electronically to Licensee to the following address: davism@cityofnampa.us.

Notices sent by U.S. certified mail, return receipt requested, or overnight courier shall be deemed delivered or received upon actual receipt or upon refusal of delivery. A Party may change its notice address(es) at any time by sending at least ten (10) days' notice to the other Party of the change.


33. **SEVERABILITY** - Whenever possible, each provision of this Agreement shall be interpreted so as to be effective and valid under applicable law. If any provision is adjudged to be invalid, the remaining provisions in this Agreement shall remain in force.
34. **SURVIVAL** - Any obligation in this Agreement, which may involve performance subsequent to termination of this Agreement, or which cannot be ascertained or fully performed until after termination of this Agreement, including without limitation, indemnification, confidentiality, insurance, and warranty obligations, shall survive.
35. **ENTIRE AGREEMENT** - This Agreement together with its Exhibits, constitutes the entire Agreement between the Parties with respect to the subject matter hereof and supersedes all prior negotiations, proposals, commitments, writings, agreements, written or oral, and all other communications between the Parties. This Agreement sets forth all of the provisions, terms, and conditions relating to said Attachments except as expressed herein. Any Entry or Attachment of Licensee's Equipment to Idaho Power's Facilities made under a prior agreement shall be subject to the terms and conditions of this Agreement upon full execution of this Agreement.
36. **DISPUTE** - Any dispute arising out of or in connection with this Agreement shall, to the extent practicable, be settled amicably by negotiation between the Parties represented by management of each Party, prior to either Party taking legal action. Notwithstanding the foregoing, either Party may seek provisional legal remedies if in such Party's judgment such action is necessary to avoid irreparable damage or preserve the status quo.
37. **WAIVER** - Waivers of any right, privilege, claim, obligation, condition, or default shall be in writing and signed by the waiving Party. No waiver by a Party of any breach of this Agreement shall be a waiver of any preceding or succeeding breach, and no waiver by a Party of any right under this Agreement shall be construed as a waiver of any other right.
38. **FORCE MAJEURE** - Neither Party shall be liable for any delay in performance hereunder caused by: fire, flood, earthquake, elements of nature, riots, civil disorders, rebellions or revolutions in any country, changes in governmental rules, laws, regulations, ordinances, permits, or licenses, relating to the Agreement, discovery of undisclosed hazardous materials, or any other cause beyond the reasonable control of the Party and not reasonably anticipated by such Party. A Party shall immediately notify the other Party in writing of the occurrence of any such event that will or may adversely affect the performance of the Party's obligations under this Agreement.


39. **HEADINGS AND NUMBERING** - The section headings used in this Agreement are intended solely for convenience of reference and shall not in any manner amplify, limit, modify, or otherwise be used in the interpretation of any provision hereof. As used in this Agreement, the term “including” means by way of example and not limitation.
40. **CONFIDENTIALITY** - In the course of performing under this Agreement, each Party may receive, be exposed to, or acquire confidential and/or proprietary information of the other Party (“Confidential Information”). All information, in whatever form, whether oral, visual, or electronic format, furnished by or on behalf of the disclosing Party hereunder, directly or indirectly to the receiving Party, shall be deemed Confidential Information, regardless of whether marked as “CONFIDENTIAL” or otherwise. Each Party agrees to take reasonable steps to protect the other Party’s Confidential Information, including not disclosing it to third parties except as otherwise permitted by this Agreement or required by law or any governmental or court order, provided the disclosing Party shall first give notice to the other Party of such order and give the other Party a reasonable opportunity to obtain a satisfactory protective order. Neither Party will be obligated to keep confidential any information of the other Party that is or becomes publicly available without breach of this Agreement, is already known or is independently developed by the receiving Party outside the scope of this Agreement, or is rightfully obtained by the receiving Party from a third party.
41. **GOVERNING LAW** - Enforcement and interpretation of this Agreement shall be in accordance with the laws of the state of Idaho notwithstanding its choice of law provisions.
42. **RELATIONSHIP OF THE PARTIES** - Nothing contained herein shall be construed to create an association, joint venture, trust, or partnership, or impose a trust or partnership covenant, obligation, or liability on or with regard to either Party. Each Party shall be individually responsible for its own covenants, obligations, and liabilities under this Agreement and otherwise.

IN WITNESS WHEREOF, the Parties hereto have caused these presents to be duly executed the day and year hereinabove written.

IDAHO POWER COMPANY

LICENSEE

By:   
 Name: Paul Hanberg  
 Title: JOINT USE LEADER

By:   
 Name: Dennis D. Elledge  
 Title: IT Director



## **PIPELINE CROSSING AGREEMENT**

Mile Post: 0.84, Idaho Industrial Ind Subdivision/Branch  
Location: Nampa, Canyon County, Idaho

**THIS AGREEMENT (“Agreement”)** is made and entered into as of October 26, 2015, (“Effective Date”) by and between **UNION PACIFIC RAILROAD COMPANY**, a Delaware corporation, (“Licensor”) and **CITY OF NAMPA, IDAHO**, to be addressed at 411 3<sup>rd</sup> Street S., Nampa, Idaho 83651 (“Licensee”).

**IT IS MUTUALLY AGREED BY AND BETWEEN THE PARTIES HERETO AS FOLLOWS:**

**Article 1.      LICENSOR GRANTS RIGHT.**

In consideration of the license fee to be paid by the Licensee and in further consideration of the covenants and agreements herein contained to be by the Licensee kept, observed and performed, the Licensor hereby grants to the Licensee the right to construct and thereafter, during the term hereof, to maintain and operate

one 12 inch encased pipeline for transporting and conveying potable water only

across Licensor's track(s) and property (the “Pipeline”) in the location shown and in conformity with the dimensions and specifications indicated on the print dated October 06, 2015 and marked **Exhibit A**, attached hereto and hereby made a part hereof. Under no circumstances shall Licensee modify the use of the Pipeline for a purpose other than transporting and conveying potable water, and the Pipeline shall not be used to convey any other substance, any fiber optic cable, or for any other use, whether such use is currently technologically possible, or whether such use may come into existence during the life of this Agreement.

For the purposes of Exhibit A, Licensee acknowledges that if it or its contractor provides to Railroad digital imagery depicting the Pipeline crossing, Licensee authorizes Railroad to use the Digital Imagery in preparing the print attached as an exhibit hereto. Licensee represents and warrants that through a license or otherwise, it has the right to use the Digital Imagery and to permit Railroad to use the Digital Imagery in said manner.

**Article 2.      ADMINISTRATIVE HANDLING CHARGE.**

Upon execution and delivery of this Agreement, the Licensee shall pay to the Licensor an Administrative Handling Charge of **Five Hundred Five DOLLARS (\$505.00)** for clerical, administrative and handling expense in connection with processing this Agreement.

**Article 3.      CONSTRUCTION, MAINTENANCE AND OPERATION.**

The grant of right herein made to the Licensee is subject to each and all of the terms, provisions, conditions, limitations and covenants set forth herein and in **Exhibit B**, attached hereto and hereby made a part hereof.

**Article 4. DEFINITION OF LICENSEE.**

For purposes of this Agreement, all references in this Agreement to the Licensee shall include the Licensee's contractors, subcontractors, officers, agents and employees, and others acting under its or their authority. If a contractor is hired by the Licensee for any work performed on the Pipeline (including initial construction and subsequent relocation or maintenance and repair work), then the Licensee shall provide a copy of this Agreement to its contractor and require its contractor to comply with all the terms and provisions hereof relating to the work to be performed. Any contractor or subcontractor shall be deemed an agent of Licensee for the purpose of this Agreement, and Licensee shall require such contractor or subcontractor to release, defend and indemnify Licensor to the same extent and under the same terms and conditions as Licensee is required to release, defend and indemnify Licensor herein.

**Article 5. INSURANCE.**

A. During the life of the License, Licensee shall fully comply with the insurance requirements described in **Exhibit C**.

B. Failure to maintain insurance as required shall entitle, but not require, Licensor to terminate this License immediately.

C. If the Licensee is subject to statute(s) limiting its insurance liability and/or limiting its ability to obtain insurance in compliance with **Exhibit C** of this license, those statutes shall apply.

D. Licensee hereby acknowledges that is has reviewed the requirements of **Exhibit C**, including without limitation the requirement for Railroad Protective Liability Insurance during construction, maintenance, installation, repair or removal of the pipeline which is the subject of this Agreement.

**Article 6. TERM.**


This Agreement shall take effect as of the Effective Date first herein written and shall continue in full force and effect until terminated as herein provided.

**IN WITNESS WHEREOF**, the parties hereto have caused this Agreement to be executed as of the date first herein written.

**UNION PACIFIC RAILROAD COMPANY**

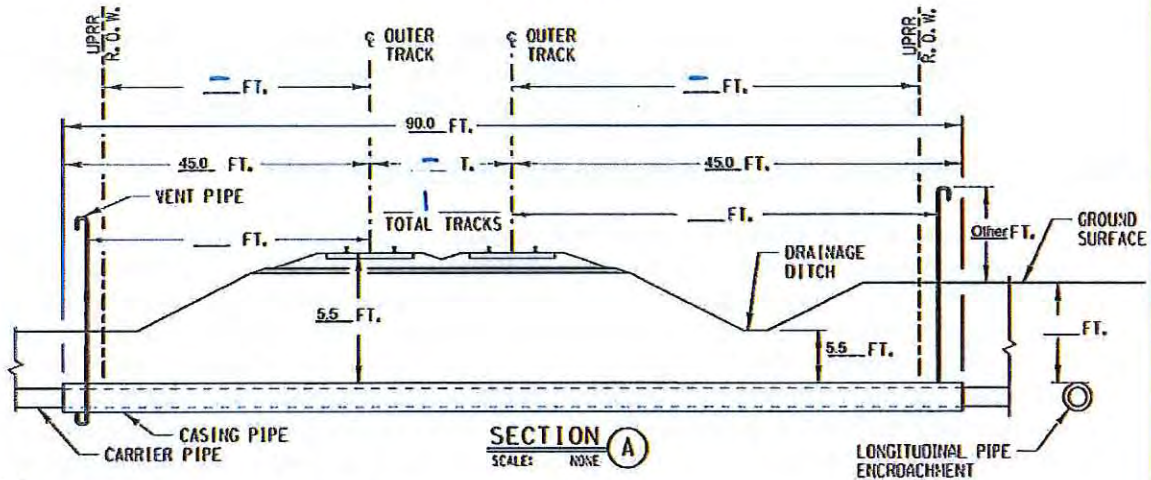
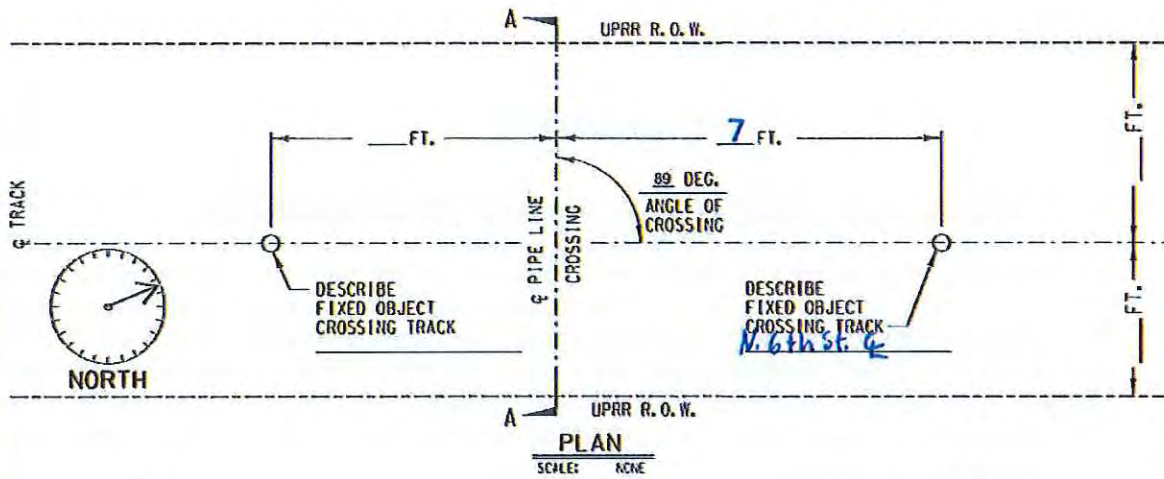
**CITY OF NAMPA, IDAHO**

By: \_\_\_\_\_  
Nicholas R. Andersen  
Asst Manager

By:  \_\_\_\_\_  
Name Printed: Michael Foss  
Title: Public Works Dir

# NON-FLAMMABLE LIQUID PIPELINE

- CROSSING
- ENCROACHMENT
- BOTH



- NOTES:**  
 1) ALL DIMENSIONS MEASURED PERPENDICULAR TO THE CENTERLINE OF TRACK  
 2) REFER TO AREMA VOLUME 1, CHAPTER 1, PART 5, SECTION 5.1

- A) METHOD OF INSTALLATION Bored and Jacked
- B) DIST. FROM CENTERLINE OF TRACK TO PIPE ENCROACHMENT \_\_\_\_\_
- C) SIGNS PROVIDED? At minimum signs will be provided as stated above
- D) CARRIER MATERIAL Plastic, IF RCP, CLASS V? NA  
 COMMODITY TO BE CONVEYED Municipal Water (Potable Water)  
 OPERATIONAL PRESSURE 100.0 PSI, MAOP 100.0 PSI.  
 WALL THICKNESS (INCH)/ SCHEDULE 900.0, DIAMETER 12.0 IN.  
 CATHODIC/COATING PROTECTION Yes
- E) CASING MATERIAL Steel Pipe, IF RCP, CLASS V? NA  
 TOTAL LENGTH CASING PIPE: 90.0 FT.  
 WALL THICKNESS 0.25 IN. DIAMETER 18.0 IN.  
 CATHODIC/COATING PROTECTION Yes  
 CASING PIPE IS Open AT THE ENDS.
- F) DISTANCE FROM CENTERLINE OF TRACK TO NEAR FACE OF BORING AND JACKING PITS WHEN MEASURED AT RIGHT ANGLES  
50.0 AND 50.0



**BUILDING AMERICA®**

**EXHIBIT "A"**

SUBDIVISION: <u>Idaho Northern Ind Ld</u>	
TRACK TYPE: <u>Mainline Track</u>	
M.P.: <u>0.84</u>	LAT.: <u>43.590761766873</u>
E.S.M.: <u>34+40</u>	LONG.: <u>-116.5617549419</u>
NEAREST CITY: _____	COUNTY: _____ STATE: _____
NAMPA _____	Canyon _____ ID _____
APPLICANT: <u>T-O Engineers</u>	
FILE NO.: <u>0295685</u>	DATE: <u>10/08/2015</u>

## **EXHIBIT B**

### **Section 1. LIMITATION AND SUBORDINATION OF RIGHTS GRANTED.**

- A. The foregoing grant of right is subject and subordinate to the prior and continuing right and obligation of the Licensor to use and maintain its entire property including the right and power of the Licensor to construct, maintain, repair, renew, use, operate, change, modify or relocate railroad tracks, signal, communication, fiber optics, or other wirelines, pipelines and other facilities upon, along or across any or all parts of its property, all or any of which may be freely done at any time or times by the Licensor without liability to the Licensee or to any other party for compensation or damages.
- B. The foregoing grant is also subject to all outstanding superior rights (including those in favor of licensees and lessees of the Licensor's property, and others) and the right of the Licensor to renew and extend the same, and is made without covenant of title or for quiet enjoyment.

### **Section 2. CONSTRUCTION, MAINTENANCE AND OPERATION.**

- A. The Pipeline shall be designed, constructed, operated, maintained, repaired, renewed, modified and/or reconstructed by the Licensee in strict conformity with (i) Licensor's current standards and specifications ("UP Specifications"), except for variances approved in advance in writing by the Licensor's Assistant Vice President Engineering – Design, or his authorized representative; (ii) such other additional safety standards as the Licensor, in its sole discretion, elects to require, including, without limitation, American Railway Engineering and Maintenance-of-Way Association ("AREMA") standards and guidelines (collectively, "UP Additional Requirements"), and (iii) all applicable laws, rules and regulations ("Laws"). If there is any conflict between the requirements of any Law and the UP Specifications or the UP Additional Requirements, the most restrictive will apply.
- B. All work performed on property of the Licensor in connection with the design, construction, maintenance, repair, renewal, modification or reconstruction of the Pipeline shall be done to the satisfaction of the Licensor.
- C. Prior to the commencement of any work in connection with the design, construction, maintenance, repair, renewal, modification, relocation, reconstruction or removal of the Pipeline from Licensor's property, the Licensee shall submit to the Licensor plans setting out the method and manner of handling the work, including the shoring and cribbing, if any, required to protect the Licensor's operations, and shall not proceed with the work until such plans have been approved by the Licensor's Assistant Vice President Engineering Design, or his authorized representative, and then the work shall be done to the satisfaction of the Licensor's Assistant Vice President Engineering Design or his authorized representative. The Licensor shall have the right, if it so elects, to provide such support as it may deem necessary for the safety of its track or tracks during the time of construction, maintenance, repair, renewal, modification, relocation, reconstruction or removal of the Pipeline, and, in the event the Licensor provides such support,

the Licensee shall pay to the Licensor, within fifteen (15) days after bills shall have been rendered therefore, all expenses incurred by the Licensor in connection therewith, which expenses shall include all assignable costs.

- D. The Licensee shall keep and maintain the soil over the Pipeline thoroughly compacted and the grade even with the adjacent surface of the ground.
- E. In the prosecution of any work covered by this Agreement, Licensee shall secure any and all necessary permits and shall comply with all applicable federal, state and local laws, regulations and enactments affecting the work including, without limitation, all applicable Federal Railroad Administration regulations.

**Section 3. NOTICE OF COMMENCEMENT OF WORK / LICENSOR REPRESENTATIVE / SUPERVISION / FLAGGING / SAFETY.**

- A. If an emergency should arise requiring immediate attention, the Licensee shall provide as much notice as practicable to Licensor before commencing any work. In all other situations, the Licensee shall notify the Licensor at least ten (10) days (or such other time as the Licensor may allow) in advance of the commencement of any work upon property of the Licensor in connection with the construction, maintenance, repair, renewal, modification, reconstruction, relocation or removal of the Pipeline. All such work shall be prosecuted diligently to completion. The Licensee will coordinate its initial, and any subsequent work with the following employee of Licensor or his or her duly authorized representative (hereinafter "Licensor Representative" or "Railroad Representative"):

JAMES E. ASMUSSEN  
MGR TRACK MNTCE  
1313 1ST ST  
NAMPA, ID 83687  
Work Phone: 208-465-8234  
Cell Phone: 208-880-9072

DARIN R. SMITH  
MGR SIGNAL MNTCE  
1313 1ST ST  
NAMPA, ID 83687  
Work Phone: 208-465-8292  
Cell Phone: 775-777-6284

- B. Licensee, at its own expense, shall adequately police and supervise all work to be performed. The responsibility of Licensee for safe conduct and adequate policing and supervision of work shall not be lessened or otherwise affected by Licensor's approval of plans and specifications involving the work, or by Licensor's collaboration in performance of any work, or by the presence at the work site of a Licensor Representative, or by compliance by Licensee with any requests or recommendations made by the Licensor Representative.
- C. At the request of Licensor, Licensee shall remove from Licensor's property any employee who fails to conform to the instructions of the Licensor Representative in connection with the work on Licensor's property. Licensee shall indemnify Licensor against any claims arising from the removal of any such employee from Licensor's property.

- D. Licensee shall notify the Licensor Representative at least ten (10) working days in advance of proposed performance of any work in which any person or equipment will be within twenty-five (25) feet of any track, or will be near enough to any track that any equipment extension (such as, but not limited to, a crane boom) will reach to within twenty-five (25) feet of any track. No work of any kind shall be performed, and no person, equipment, machinery, tool(s), material(s), vehicle(s), or thing(s) shall be located, operated, placed, or stored within twenty-five (25) feet of any of Licensor's track(s) at any time, for any reason, unless and until a railroad flagman is provided to watch for trains. Upon receipt of such ten (10) day notice, the Licensor Representative will determine and inform Licensee whether a flagman need be present and whether any special protective or safety measures need to be implemented. If flagging or other special protective or safety measures are performed by Licensor, Licensor will bill Licensee for such expenses incurred by Licensor, unless Licensor and a federal, state or local governmental entity have agreed that Licensor is to bill such expenses to the federal, state or local governmental entity. If Licensor will be sending the bills to Licensee, Licensee shall pay such bills within thirty (30) days of receipt of billing. If Licensor performs any flagging, or other special protective or safety measures are performed by Licensor, Licensee agrees that Licensee is not relieved of any of responsibilities or liabilities set forth in this Agreement.
- E. The rate of pay per hour for each flagman will be the prevailing hourly rate in effect for an eight-hour day for the class of flagmen used during regularly assigned hours and overtime in accordance with Labor Agreements and Schedules in effect at the time the work is performed. In addition to the cost of such labor, a composite charge for vacation, holiday, health and welfare, supplemental sickness, Railroad Retirement and unemployment compensation, supplemental pension, Employees Liability and Property Damage and Administration will be included, computed on actual payroll. The composite charge will be the prevailing composite charge in effect at the time the work is performed. One and one-half times the current hourly rate is paid for overtime, Saturdays and Sundays, and two and one-half times current hourly rate for holidays. Wage rates are subject to change, at any time, by law or by agreement between Licensor and its employees, and may be retroactive as a result of negotiations or a ruling of an authorized governmental agency. Additional charges on labor are also subject to change. If the wage rate or additional charges are changed, Licensee (or the governmental entity, as applicable) shall pay on the basis of the new rates and charges.
- F. Reimbursement to Licensor will be required covering the full eight-hour day during which any flagman is furnished, unless the flagman can be assigned to other railroad work during a portion of such day, in which event reimbursement will not be required for the portion of the day during which the flagman is engaged in other railroad work. Reimbursement will also be required for any day not actually worked by the flagman following the flagman's assignment to work on the project for which Licensor is required to pay the flagman and which could not reasonably be avoided by Licensor by assignment of such flagman to other work, even though Licensee may not be working during such time. When it becomes necessary for Licensor to bulletin and assign an employee to a flagging position in compliance with union collective bargaining agreements, Licensee must provide Licensor a minimum of five (5) days notice prior to the cessation of the need for a flagman. If five (5) days notice of cessation is not given, Licensee will still be required to pay flagging charges for the five (5) day notice period required by union agreement to be given to the employee, even though flagging is not required for that period. An additional ten (10) days notice must then be given to Licensor if flagging services are needed again after such five day cessation notice has been given to Licensor.
- G. Safety of personnel, property, rail operations and the public is of paramount importance in the prosecution of the work performed by Licensee or its contractor. Licensee shall be responsible

for initiating, maintaining and supervising all safety, operations and programs in connection with the work. Licensee and its contractor shall at a minimum comply with Licensor's safety standards listed in **Exhibit D**, hereto attached, to ensure uniformity with the safety standards followed by Licensor's own forces. As a part of Licensee's safety responsibilities, Licensee shall notify Licensor if it determines that any of Licensor's safety standards are contrary to good safety practices. Licensee and its contractor shall furnish copies of **Exhibit D** to each of its employees before they enter the job site.

- H. Without limitation of the provisions of paragraph G above, Licensee shall keep the job site free from safety and health hazards and ensure that their employees are competent and adequately trained in all safety and health aspects of the job.
- I. Licensee shall have proper first aid supplies available on the job site so that prompt first aid services may be provided to any person injured on the job site. Prompt notification shall be given to Licensor of any U.S. Occupational Safety and Health Administration reportable injuries. Licensee shall have a non-delegable duty to control its employees while they are on the job site or any other property of Licensor, and to be certain they do not use, be under the influence of, or have in their possession any alcoholic beverage, drug or other substance that may inhibit the safe performance of any work.
- J. If and when requested by Licensor, Licensee shall deliver to Licensor a copy of its safety plan for conducting the work (the "Safety Plan"). Licensor shall have the right, but not the obligation, to require Licensee to correct any deficiencies in the Safety Plan. The terms of this Agreement shall control if there are any inconsistencies between this Agreement and the Safety Plan.

**Section 4. LICENSEE TO BEAR ENTIRE EXPENSE.**

The Licensee shall bear the entire cost and expense incurred in connection with the design, construction, maintenance, repair and renewal and any and all modification, revision, relocation, removal or reconstruction of the Pipeline, including any and all expense which may be incurred by the Licensor in connection therewith for supervision, inspection, flagging, or otherwise.

**Section 5. REINFORCEMENT, RELOCATION OR REMOVAL OF PIPELINE.**

- A. The license herein granted is subject to the needs and requirements of the Licensor in the safe and efficient operation of its railroad and in the improvement and use of its property. The Licensee shall, at the sole expense of the Licensee, reinforce or otherwise modify the Pipeline, or move all or any portion of the Pipeline to such new location, or remove the Pipeline from the Licensor's property, as the Licensor may designate, whenever, in the furtherance of its needs and requirements, the Licensor, at its sole election, finds such action necessary or desirable.
- B. All the terms, conditions and stipulations herein expressed with reference to the Pipeline on property of the Licensor in the location hereinbefore described shall, so far as the Pipeline remains on the property, apply to the Pipeline as modified, changed or relocated within the contemplation of this section.

**Section 6. NO INTERFERENCE WITH LICENSOR'S OPERATION.**

- A. The Pipeline and all parts thereof within and outside of the limits of the property of the Licensor shall be designed, constructed and, at all times, maintained, repaired, renewed and operated in such manner as to cause no interference whatsoever with the constant, continuous and

uninterrupted use of the tracks, property and facilities of the Licensor and nothing shall be done or suffered to be done by the Licensee at any time that would in any manner impair the safety thereof.

- B. Explosives or other highly flammable substances shall not be stored on Licensor's property without the prior written approval of Licensor.
- C. No additional vehicular crossings (including temporary haul roads) or pedestrian crossings over Licensor's trackage shall be installed or used by Licensor or its contractors without the prior written permission of Licensor.
- D. When not in use, any machinery and materials of Licensee or its contractors shall be kept at least fifty (50) feet from the centerline of Licensor's nearest track.
- E. Operations of Licensor and work performed by Licensor's personnel may cause delays in the work to be performed by Licensee. Licensee accepts this risk and agrees that Licensor shall have no liability to Licensee or any other person or entity for any such delays. Licensee shall coordinate its activities with those of Licensor and third parties so as to avoid interference with railroad operations. The safe operation of Licensor's train movements and other activities by Licensor take precedence over any work to be performed by Licensee.

**Section 7. PROTECTION OF FIBER OPTIC CABLE SYSTEMS.**

- A. Fiber optic cable systems may be buried on the Licensor's property. Protection of the fiber optic cable systems is of extreme importance since any break could disrupt service to users resulting in business interruption and loss of revenue and profits. Licensee shall telephone the Licensor during normal business hours (7:00 a.m. to 9:00 p.m. Central Time, Monday through Friday, except for holidays) at 1-800-336-9193 (also a 24-hour, 7-day number for emergency calls) to determine if fiber optic cable is buried anywhere on the Licensor's premises to be used by the Licensee. If it is, Licensee will telephone the telecommunications company(ies) involved, arrange for a cable locator, make arrangements for relocation or other protection of the fiber optic cable, all at Licensee's expense, and will commence no work on the Licensor's property until all such protection or relocation has been accomplished. Licensee shall indemnify and hold the Licensor harmless from and against all costs, liability and expense whatsoever (including, without limitation, attorneys' fees, court costs and expenses) arising out of or caused in any way by Licensee's failure to comply with the provisions of this paragraph.
- B. IN ADDITION TO OTHER INDEMNITY PROVISIONS IN THIS AGREEMENT, THE LICENSEE SHALL, AND SHALL CAUSE ITS CONTRACTOR TO, RELEASE, INDEMNIFY, DEFEND AND HOLD THE LICENSOR HARMLESS FROM AND AGAINST ALL COSTS, LIABILITY AND EXPENSE WHATSOEVER (INCLUDING, WITHOUT LIMITATION, ATTORNEYS' FEES, COURT COSTS AND EXPENSES) CAUSED BY THE NEGLIGENCE OF THE LICENSEE, ITS CONTRACTORS, AGENTS AND/OR EMPLOYEES, RESULTING IN (1) ANY DAMAGE TO OR DESTRUCTION OF ANY TELECOMMUNICATIONS SYSTEM ON LICENSOR'S PROPERTY, AND/OR (2) ANY INJURY TO OR DEATH OF ANY PERSON EMPLOYED BY OR ON BEHALF OF ANY TELECOMMUNICATIONS COMPANY, AND/OR ITS CONTRACTOR, AGENTS AND/OR EMPLOYEES, ON LICENSOR'S PROPERTY, EXCEPT IF SUCH COSTS, LIABILITY OR EXPENSES ARE CAUSED SOLELY BY THE DIRECT ACTIVE NEGLIGENCE OF THE LICENSOR. LICENSEE FURTHER AGREES THAT IT SHALL NOT HAVE OR SEEK RECOURSE AGAINST LICENSOR FOR ANY**



**CLAIM OR CAUSE OF ACTION FOR ALLEGED LOSS OF PROFITS OR REVENUE OR LOSS OF SERVICE OR OTHER CONSEQUENTIAL DAMAGE TO A TELECOMMUNICATION COMPANY USING LICENSOR'S PROPERTY OR A CUSTOMER OR USER OF SERVICES OF THE FIBER OPTIC CABLE ON LICENSOR'S PROPERTY.**

**Section 8. CLAIMS AND LIENS FOR LABOR AND MATERIAL; TAXES.**

- A. The Licensee shall fully pay for all materials joined or affixed to and labor performed upon property of the Licensor in connection with the construction, maintenance, repair, renewal, modification or reconstruction of the Pipeline, and shall not permit or suffer any mechanic's or materialman's lien of any kind or nature to be enforced against the property for any work done or materials furnished thereon at the instance or request or on behalf of the Licensee. The Licensee shall indemnify and hold harmless the Licensor against and from any and all liens, claims, demands, costs and expenses of whatsoever nature in any way connected with or growing out of such work done, labor performed, or materials furnished.
- B. The Licensee shall promptly pay or discharge all taxes, charges and assessments levied upon, in respect to, or on account of the Pipeline, to prevent the same from becoming a charge or lien upon property of the Licensor, and so that the taxes, charges and assessments levied upon or in respect to such property shall not be increased because of the location, construction or maintenance of the Pipeline or any improvement, appliance or fixture connected therewith placed upon such property, or on account of the Licensee's interest therein. Where such tax, charge or assessment may not be separately made or assessed to the Licensee but shall be included in the assessment of the property of the Licensor, then the Licensee shall pay to the Licensor an equitable proportion of such taxes determined by the value of the Licensee's property upon property of the Licensor as compared with the entire value of such property.

**Section 9. RESTORATION OF LICENSOR'S PROPERTY.**

In the event the Licensee in any manner moves or disturbs any of the property of the Licensor in connection with the construction, maintenance, repair, renewal, modification, reconstruction, relocation or removal of the Pipeline, then in that event the Licensee shall, as soon as possible and at Licensee's sole expense, restore such property to the same condition as the same were before such property was moved or disturbed, and the Licensee shall indemnify and hold harmless the Licensor, its officers, agents and employees, against and from any and all liability, loss, damages, claims, demands, costs and expenses of whatsoever nature, including court costs and attorneys' fees, which may result from injury to or death of persons whomsoever, or damage to or loss or destruction of property whatsoever, when such injury, death, damage, loss or destruction grows out of or arises from the moving or disturbance of any other property of the Licensor.

**Section 10. INDEMNITY.**

- A. As used in this Section, "Licensor" includes other railroad companies using the Licensor's property at or near the location of the Licensee's installation and their officers, agents, and employees; "Loss" includes loss, damage, claims, demands, actions, causes of action, penalties, costs, and expenses of whatsoever nature, including court costs and attorneys' fees, which may result from: (a) injury to or death of persons whomsoever (including the Licensor's officers, agents, and employees, the Licensee's officers, agents, and employees, as well as any other person); and/or (b) damage to or loss or destruction of property whatsoever (including Licensee's

property, damage to the roadbed, tracks, equipment, or other property of the Licensor, or property in its care or custody).

**B. AS A MAJOR INDUCEMENT AND IN CONSIDERATION OF THE LICENSE AND PERMISSION HEREIN GRANTED, TO THE FULLEST EXTENT PERMITTED BY LAW, THE LICENSEE SHALL, AND SHALL CAUSE ITS CONTRACTOR TO, RELEASE, INDEMNIFY, DEFEND AND HOLD HARMLESS THE LICENSOR FROM ANY LOSS OF ANY KIND, NATURE OR DESCRIPTION ARISING OUT OF, RESULTING FROM OR RELATED TO (IN WHOLE OR IN PART):**

**1. THE PROSECUTION OF ANY WORK CONTEMPLATED BY THIS AGREEMENT INCLUDING THE INSTALLATION, CONSTRUCTION, MAINTENANCE, REPAIR, RENEWAL, MODIFICATION, RECONSTRUCTION, RELOCATION, OR REMOVAL OF THE PIPELINE OR ANY PART THEREOF;**

**2. ANY RIGHTS OR INTERESTS GRANTED PURSUANT TO THIS LICENSE;**

**3. THE PRESENCE, OPERATION, OR USE OF THE PIPELINE OR CONTENTS ESCAPING THEREFROM;**

**4. THE ENVIRONMENTAL STATUS OF THE PROPERTY CAUSED BY OR CONTRIBUTED TO BY LICENSEE;**

**5. ANY ACT OR OMISSION OF LICENSEE OR LICENSEE'S OFFICERS, AGENTS, INVITEES, EMPLOYEES, OR CONTRACTORS OR ANYONE DIRECTLY OR INDIRECTLY EMPLOYED BY ANY OF THEM, OR ANYONE THEY CONTROL OR EXERCISE CONTROL OVER; OR**

**6. LICENSEE'S BREACH OF THIS AGREEMENT,**

**EXCEPT WHERE THE LOSS IS CAUSED BY THE SOLE DIRECT AND ACTIVE NEGLIGENCE OF THE LICENSOR, AS DETERMINED IN A FINAL JUDGMENT BY A COURT OF COMPETENT JURISDICTION, IT BEING THE INTENTION OF THE PARTIES THAT THE ABOVE INDEMNITY WILL OTHERWISE APPLY TO LOSSES CAUSED BY OR ARISING FROM, IN WHOLE OR IN PART, LICENSOR'S NEGLIGENCE.**

C. Upon written notice from Licensor, Licensee agrees to assume the defense of any lawsuit of proceeding brought against any indemnitee by any entity, relating to any matter covered by this License for which Licensee has an obligation to assume liability for and/or save and hold harmless any indemnitee. Licensee shall pay all costs incident to such defense, including, but not limited to, reasonable attorney's fees, investigators' fees, litigation and appeal expenses, settlement payments and amounts paid in satisfaction of judgments.

**Section 11. REMOVAL OF PIPELINE UPON TERMINATION OF AGREEMENT.**

Prior to the termination of this Agreement howsoever, the Licensee shall, at Licensee's sole expense, remove the Pipeline from those portions of the property not occupied by the roadbed and track or tracks of the Licensor and shall restore, to the satisfaction of the Licensor, such portions of such property to as good a condition as they were in at the time of the construction of the Pipeline. If the Licensee fails to do the foregoing, the Licensor may, but is not obligated, to perform such work of

removal and restoration at the cost and expense of the Licensee. In the event of the removal by the Licensor of the property of the Licensee and of the restoration of the roadbed and property as herein provided, the Licensor shall in no manner be liable to the Licensee for any damage sustained by the Licensee for or on account thereof, and such removal and restoration shall in no manner prejudice or impair any right of action for damages, or otherwise, that the Licensor may have against the Licensee.

**Section 12. WAIVER OF BREACH.**

The waiver by the Licensor of the breach of any condition, covenant or agreement herein contained to be kept, observed and performed by the Licensee shall in no way impair the right of the Licensor to avail itself of any remedy for any subsequent breach thereof.

**Section 13. TERMINATION.**

- A. If the Licensee does not use the right herein granted or the Pipeline for one (1) year, or if the Licensee continues in default in the performance of any covenant or agreement herein contained for a period of thirty (30) days after written notice from the Licensor to the Licensee specifying such default, the Licensor may, at its option, forthwith immediately terminate this Agreement by written notice.
- B. In addition to the provisions of subparagraph (a) above, this Agreement may be terminated by written notice given by either party hereto to the other on any date in such notice stated, not less, however, than thirty (30) days subsequent to the date upon which such notice shall be given.
- C. Notice of default and notice of termination may be served personally upon the Licensee or by mailing to the last known address of the Licensee. Termination of this Agreement for any reason shall not affect any of the rights or obligations of the parties hereto which may have accrued, or liabilities, accrued or otherwise, which may have arisen prior thereto.

**Section 14. AGREEMENT NOT TO BE ASSIGNED.**

The Licensee shall not assign this Agreement, in whole or in part, or any rights herein granted, without the written consent of the Licensor, and it is agreed that any transfer or assignment or attempted transfer or assignment of this Agreement or any of the rights herein granted, whether voluntary, by operation of law, or otherwise, without such consent in writing, shall be absolutely void and, at the option of the Licensor, shall terminate this Agreement.

**Section 15. SUCCESSORS AND ASSIGNS.**

Subject to the provisions of Section 14 hereof, this Agreement shall be binding upon and inure to the benefit of the parties hereto, their heirs, executors, administrators, successors and assigns.

**Section 16. SEVERABILITY.**

Any provision of this Agreement which is determined by a court of competent jurisdiction to be invalid or unenforceable shall be invalid or unenforceable only to the extent of such determination, which shall not invalidate or otherwise render ineffective any other provision of this Agreement.

Approved: Insurance Group  
Created: 9/23/05  
Last Modified: 03/29/10  
Form Approved, AVP-Law

**EXHIBIT C**  
**Union Pacific Railroad Company**  
**Contract Insurance Requirements**

Licensee shall, at its sole cost and expense, procure and maintain during the life of this Agreement (except as otherwise provided in this Agreement) the following insurance coverage:

**A. Commercial General Liability insurance.** Commercial general liability (CGL) with a limit of not less than \$2,000,000 each occurrence and an aggregate limit of not less than \$4,000,000. CGL insurance must be written on ISO occurrence form CG 00 01 12 04 (or a substitute form providing equivalent coverage).

The policy must also contain the following endorsement, WHICH MUST BE STATED ON THE CERTIFICATE OF INSURANCE: "Contractual Liability Railroads" ISO form CG 24 17 10 01 (or a substitute form providing equivalent coverage) showing "Union Pacific Railroad Company Property" as the Designated Job Site.

**B. Business Automobile Coverage insurance.** Business auto coverage written on ISO form CA 00 01 10 01 (or a substitute form providing equivalent liability coverage) with a limit of not less \$2,000,000 for each accident, and coverage must include liability arising out of any auto (including owned, hired, and non-owned autos).

The policy must contain the following endorsements, WHICH MUST BE STATED ON THE CERTIFICATE OF INSURANCE: "Coverage For Certain Operations In Connection With Railroads" ISO form CA 20 70 10 01 (or a substitute form providing equivalent coverage) showing "Union Pacific Property" as the Designated Job Site.

**C. Workers Compensation and Employers Liability insurance.** Coverage must include but not be limited to:

Licensee's statutory liability under the workers' compensation laws of the state(s) affected by this Agreement.

Employers' Liability (Part B) with limits of at least \$500,000 each accident, \$500,000 disease policy limit \$500,000 each employee.

If Licensee is self-insured, evidence of state approval and excess workers compensation coverage must be provided. Coverage must include liability arising out of the U. S. Longshoremen's and Harbor Workers' Act, the Jones Act, and the Outer Continental Shelf Land Act, if applicable.

**D. Railroad Protective Liability insurance.** Licensee must maintain "Railroad Protective Liability" insurance written on ISO occurrence form CG 00 35 12 04 (or a substitute form providing equivalent coverage) on behalf of Railroad only as named insured, with a limit of not less than \$2,000,000 per occurrence and an aggregate of \$6,000,000.

The definition of "JOB LOCATION" and "WORK" on the declaration page of the policy shall refer to this Agreement and shall describe all WORK or OPERATIONS performed under this agreement

**E. Umbrella or Excess insurance.** If Licensee utilizes umbrella or excess policies, and these policies must "follow form" and afford no less coverage than the primary policy.

**Other Requirements**

**F.** All policy(ies) required above (except worker's compensation and employers liability) must include Railroad as "Additional Insured" using ISO Additional Insured Endorsements CG 20 26, and CA 20 48 (or substitute forms providing equivalent coverage). The coverage provided to Railroad as additional insured shall, to the extent provided under ISO Additional Insured Endorsement CG 20 26, and CA 20 48 provide coverage for Railroad's negligence whether sole or partial, active or passive, and shall not be limited by Licensee's liability under the indemnity provisions of this Agreement.

**G.** Punitive damages exclusion, if any, must be deleted (and the deletion indicated on the certificate of insurance), unless (a) insurance coverage may not lawfully be obtained for any punitive damages that may arise under this agreement, or (b) all punitive damages are prohibited by all states in which this agreement will be performed.

**H.** Licensee waives all rights of recovery, and its insurers also waive all rights of subrogation of damages against Railroad and its agents, officers, directors and employees for damages covered by the workers compensation and employers liability or commercial umbrella or excess liability obtained by Licensee required in this agreement, where permitted by law This waiver must be stated on the certificate of insurance.

**I.** All insurance policies must be written by a reputable insurance company acceptable to Railroad or with a current Best's Insurance Guide Rating of A- and Class VII or better, and authorized to do business in the state(s) in which the work is to be performed.

**J.** The fact that insurance is obtained by Licensee or by Railroad on behalf of Licensee will not be deemed to release or diminish the liability of Licensee, including, without limitation, liability under the indemnity provisions of this Agreement. Damages recoverable by Railroad from Licensee or any third party will not be limited by the amount of the required insurance coverage.

**EXHIBIT D**  
**SAFETY STANDARDS**

**MINIMUM SAFETY REQUIREMENTS**

The term "employees" as used herein refer to all employees of Licensee or its contractors, subcontractors, or agents, as well as any subcontractor or agent of any Licensee.

**I. Clothing**

- A. All employees of Licensee will be suitably dressed to perform their duties safely and in a manner that will not interfere with their vision, hearing, or free use of their hands or feet.

Specifically, Licensee's employees must wear:

- (i) Waist-length shirts with sleeves.
- (ii) Trousers that cover the entire leg. If flare-legged trousers are worn, the trouser bottoms must be tied to prevent catching.
- (iii) Footwear that covers their ankles and has a defined heel. Employees working on bridges are required to wear safety-toed footwear that conforms to the American National Standards Institute (ANSI) and FRA footwear requirements.

- B. Employees shall not wear boots (other than work boots), sandals, canvas-type shoes, or other shoes that have thin soles or heels that are higher than normal.

- C. Employees must not wear loose or ragged clothing, neckties, finger rings, or other loose jewelry while operating or working on machinery.

**II. Personal Protective Equipment**

Licensee shall require its employee to wear personal protective equipment as specified by Railroad rules, regulations, or recommended or requested by the Railroad Representative.

- (i) Hard hat that meets the American National Standard (ANSI) Z89.1 – latest revision. Hard hats should be affixed with Licensee's company logo or name.
- (ii) Eye protection that meets American National Standard (ANSI) for occupational and educational eye and face protection, Z87.1 – latest revision. Additional eye protection must be provided to meet specific job situations such as welding, grinding, etc.
- (iii) Hearing protection, which affords enough attenuation to give protection from noise levels that will be occurring on the job site. Hearing protection, in the form of plugs or muffs, must be worn when employees are within:
  - 100 feet of a locomotive or roadway/work equipment
  - 15 feet of power operated tools
  - 150 feet of jet blowers or pile drivers

- 150 feet of retarders in use (when within 10 feet, employees must wear dual ear protection – plugs and muffs)
- (iv) Other types of personal protective equipment, such as respirators, fall protection equipment, and face shields, must be worn as recommended or requested by the Railroad Representative.

### **III. On Track Safety**

Licensee and its contractor are responsible for compliance with the Federal Railroad Administration's Roadway Worker Protection regulations – 49CFR214, Subpart C and Railroad's On-Track Safety rules. Under 49CFR214, Subpart C, railroad contractors are responsible for the training of their employees on such regulations. In addition to the instructions contained in Roadway Worker Protection regulations, all employees must:

- (i) Maintain a minimum distance of at least twenty-five (25) feet to any track unless the Railroad Representative is present to authorize movements.
- (ii) Wear an orange, reflectorized work wear approved by the Railroad Representative.
- (iii) Participate in a job briefing that will specify the type of On-Track Safety for the type of work being performed. Licensee must take special note of limits of track authority, which tracks may or may not be fouled, and clearing the track. Licensee will also receive special instructions relating to the work zone around machines and minimum distances between machines while working or traveling.

### **IV. Equipment**

- A. It is the responsibility of Licensee to ensure that all equipment is in a safe condition to operate. If, in the opinion of the Railroad Representative, any of Licensee's equipment is unsafe for use, Licensee shall remove such equipment from Railroad's property. In addition, Licensee must ensure that the operators of all equipment are properly trained and competent in the safe operation of the equipment. In addition, operators must be:
  - Familiar and comply with Railroad's rules on lockout/tagout of equipment.
  - Trained in and comply with the applicable operating rules if operating any hy-rail equipment on-track.
  - Trained in and comply with the applicable air brake rules if operating any equipment that moves rail cars or any other rail bound equipment.
- B. All self-propelled equipment must be equipped with a first-aid kit, fire extinguisher, and audible back-up warning device.
- C. Unless otherwise authorized by the Railroad Representative, all equipment must be parked a minimum of twenty-five (25) feet from any track. Before leaving any equipment unattended, the operator must stop the engine and properly secure the equipment against movement.
- D. Cranes must be equipped with three orange cones that will be used to mark the working area of the crane and the minimum clearances to overhead powerlines.

**V. General Safety Requirements**

- A. Licensee shall ensure that all waste is properly disposed of in accordance with applicable federal and state regulations.
- B. Licensee shall ensure that all employees participate in and comply with a job briefing conducted by the Railroad Representative, if applicable. During this briefing, the Railroad Representative will specify safe work procedures, (including On-Track Safety) and the potential hazards of the job. If any employee has any questions or concerns about the work, the employee must voice them during the job briefing. Additional job briefings will be conducted during the work as conditions, work procedures, or personnel change.
- C. All track work performed by Licensee meets the minimum safety requirements established by the Federal Railroad Administration's Track Safety Standards 49CFR213.
- D. All employees comply with the following safety procedures when working around any railroad track:
  - (i) Always be on the alert for moving equipment. Employees must always expect movement on any track, at any time, in either direction.
  - (ii) Do not step or walk on the top of the rail, frog, switches, guard rails, or other track components.
  - (iii) In passing around the ends of standing cars, engines, roadway machines or work equipment, leave at least 20 feet between yourself and the end of the equipment. Do not go between pieces of equipment of the opening is less than one car length (50 feet).
  - (iv) Avoid walking or standing on a track unless so authorized by the employee in charge.
  - (v) Before stepping over or crossing tracks, look in both directions first.
  - (vi) Do not sit on, lie under, or cross between cars except as required in the performance of your duties and only when track and equipment have been protected against movement.
- E. All employees must comply with all federal and state regulations concerning workplace safety.





The Office of the Governor  
**Proclamation**

Executive Department  
State of Idaho

State Capital  
Boise

*WHEREAS, the health and safety of all Idahoans is the greatest priority of our state and its leaders; and*

*WHEREAS, the Centers for Disease Control and Prevention has labeled COVID-19 a pandemic that poses a serious public health threat; and*

*WHEREAS, the Secretary of Health and Human Services declared a public health emergency for the entire United States to aid the nation in responding to COVID-19; and*

*WHEREAS, Idaho is committed to being prepared and protecting Idahoans from the 2019 novel coronavirus (COVID-19); and*

*WHEREAS, on March 13, 2020, when the first case of COVID-19 was confirmed in Idaho, I issued a proclamation declaring a state of emergency in the State of Idaho pursuant to Chapter 10, Title 46, Idaho Code, due to the occurrence and imminent threat to public health and safety arising from the effects of COVID-19; and*

*WHEREAS, President Trump issued a proclamation on March 13, 2020, declaring a national emergency due to the outbreak of COVID-19 in the United States and in order to implement additional measures to successfully contain and combat the virus in the United States; and*

*WHEREAS, I issued a proclamation on March 25, 2020, declaring a state of extreme emergency in the State of Idaho pursuant to Chapter 6, Title 46, Idaho Code, due to incidences of community spread, increasing occurrence, and the threat to public health and safety arising from the effects of COVID-19; and*

*WHEREAS, on April 9, 2020, President Trump declared that a major disaster exists in the State of Idaho, which allows for additional federal assistance to aid in recovery efforts related to COVID-19; and*

*WHEREAS, on April 30, 2020, the Board of Examiners approved, pursuant to Section 67-3516(2), non-cognizable spending authority for the Governor's Office in fund 0345 for the \$1.25 billion for the time period of March 1, 2020 through December 30, 2020; and*

*WHEREAS, on June 11, 2020, I declared an emergency in the State of Idaho due to the ongoing occurrence and imminent threat to public health and safety arising from the effects of COVID-19; and*

*WHEREAS, as of July 9, 2020, there are more than 3 million confirmed cases of COVID-19 and approximately 132,000 deaths in the United States and 9,428 confirmed or probable cases of COVID-19 and 100 deaths in Idaho due to COVID-19; and*

*WHEREAS, COVID-19 clusters with significant community spread have developed across the United States, including in Idaho and neighboring states. In Idaho, cases of COVID-19 have been reported in forty-one (41) counties and community spread of COVID-19 has been confirmed in thirty-three (33) counties. One (1) Idaho county had the highest per-capita number of cases in the country at one point in time; and*

*WHEREAS, rapid community spread in one rural Idaho county was so severe it caused the local hospital to have to significantly reduce operations to protect its healthcare workers and caused patients to have to travel or be transported into other counties to be treated for COVID-19 or other illnesses and injuries. Idaho's rural communities are particularly at risk because of limited health care capacity; and*

*WHEREAS, COVID-19 outbreaks have occurred in several long-term care facilities in Idaho and resulted in several deaths; and*

*WHEREAS, the Idaho Department of Health and Welfare, other state agencies, and the local public health districts are expending resources to treat and track cases of COVID-19, supporting healthcare system response, and addressing resource shortages through the use of supplies and equipment from the Strategic National Stockpile (SNS) throughout the State of Idaho to reduce transmission and illness severity. The costs associated with facilitating the COVID-19 preparedness and response effort are expected to increase commensurate with the severity of the outbreak; and*

*WHEREAS, the Idaho Office of Emergency Management Emergency Operations Center is coordinating resources across state government to support the Idaho Department of Health and Welfare and local officials in alleviating the impacts to people, property, and infrastructure, and is assessing the magnitude and long-term effects of the incident with the Idaho Department of Health and Welfare; and*

*WHEREAS, there continues to be a risk to life and the continued operation of public infrastructure as a result of cases of COVID-19 throughout the State of Idaho, and the declaration of an emergency pursuant to Section 46-1008, Idaho Code, is necessary to receive and distribute emergency funds from the federal government and the State; and*

*WHEREAS, the Governor may suspend the provisions of any regulations that would in any way prevent, hinder, or delay necessary action in coping with the emergency, pursuant to Section 46-1008(5)(a), Idaho Code; and*

*WHEREAS, the Governor is authorized to utilize all resources of the state, including, but not limited to, those sums in the disaster emergency account as he shall deem necessary to pay obligations and expenses incurred during a declared state of disaster emergency, pursuant to Section 46-1008(5)(b), Idaho Code; and*

*WHEREAS, the Governor is authorized to transfer the functions of state departments and agencies or units thereof for the purpose of performing or facilitating emergency services, pursuant to Section 46-1008(5)(c), Idaho Code.*

*NOW, THEREFORE, I, Brad Little, Governor of the State of Idaho, by virtue of the authority vested in me by the Constitution of the United States, the Constitution of the State of Idaho, and by Section 46-1008 of the Idaho Code do hereby find and therefore proclaim and declare:*

- 1. That a state of emergency described in Section 46-1008, Idaho Code, continues to exist in the State of Idaho.
  - a. The nature of the emergency is the occurrence and imminent threat to public health and safety arising from the effects of COVID-19.*
  - b. The area threatened by the emergency includes the State of Idaho.*
  - c. The area subject to this proclamation shall include the State of Idaho.**
- 2. That the Proclamations dated March 13, 18, 23, 25, 27, April 1, 2, 22, 23, and May 12, 2020, are superseded by this Proclamation.*
- 3. That implementation of the plans and procedures of the State of Idaho Emergency Operations Plan are to continue.*
- 4. That this declaration of emergency is necessary to protect life and property of Idahoans and ensure the state of Idaho continues to have the state and federal resources and funding needed to protect the citizens of Idaho from the dangers and rapid spread of COVID-19.*
- 5. That the list of regulations appended to the June 11, 2020 emergency declaration shall continue to be suspended for the duration of the declared state of*

*emergency, including extensions, in order to ensure these regulations do not in any way prevent, hinder, or delay necessary action in coping with the emergency. Each agency responsible for administering a regulation or regulations suspended by this Proclamation shall immediately post to its website in a place easy for the affected public to find a list identifying and stating the text of each rule that has been suspended. If an agency deems suspension of a certain regulation is no longer needed to respond to the emergency, the agency should immediately notify the Governor's Office and resume compliance with the applicable regulation.*

6. *That, related to the Idaho Rebound Cash Grants established by Executive Order 2020-08 and Executive Order 2020-08-A:*
  - a. *The Governor directs the Director of the Department of Commerce to oversee the continuation of the Idaho Rebound Cash Grants pursuant to Section 67-4703, Idaho Code.*
  - b. *The Idaho State Tax Commission shall administer and distribute the funds in account 0345 for the Idaho Rebound grant program pursuant to Sections 46-1008(5)(c), 67-4703 and 67-3516(2), Idaho Code. In the instance in which more applications are received than resources are available, the Tax Commission shall use a lottery system to select award recipients.*
  - c. *Executive Order 2020-08 and Executive Order 2020-08-A remain in effect, and are incorporated herein, to the extent consistent with this Proclamation.*
7. *That the Program to Procure and Distribute Personal Protective Equipment to Idaho Business and Nonprofits established by Executive Order 2020-09 continue pursuant to the terms of that Executive Order and this Proclamation.*
8. *That the actions related to the Idaho Department of Labor taken in Executive Order 2020-11 continue pursuant to the terms of that Executive Order and this Proclamation.*
9. *That the Return to Work Bonuses Program established by Executive Order 2020-12 continue pursuant to the terms of that Executive Order and this Proclamation.*
10. *That the state of public health emergency herein described shall continue for a period of thirty days unless terminated, modified or extended.*
11. *That state agencies and departments are directed to continue to utilize state resources and to do everything reasonably possible to assist affected political subdivisions in an effort to respond to, protect Idaho citizens from, and recover from COVID-19.*
12. *That this proclamation serves pursuant to Section 46-1008, Idaho Code, as authorization for the resources of state government to continue to assist in efforts to deal with the public health emergency of COVID-19 in Idaho.*
13. *That this proclamation shall be disseminated promptly by means calculated to bring its contents to the attention of the general public and be promptly filed with the Idaho office of emergency management, the office of the secretary of state and the office of the recorder of each county.*
14. *That this proclamation is not intended to, and does not, create any right or benefit, substantive or procedural, enforceable at law or in equity by any party against the State of Idaho, its departments, agencies, or entities, its officers, employees, or agents, or any other person.*



*IN WITNESS WHEREOF, I have hereunto set my hand and caused to be affixed the Great Seal of the State of Idaho at the Capitol in Boise on this 10<sup>th</sup> day of July in the year of our Lord two thousand and twenty.*

*Brad Little*  
GOVERNOR

*Lawrence Denney*  
Lawrence Denney  
SECRETARY OF STATE

## ATTACHMENT 2. GRANT BUDGET

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Attachment 2 includes the anticipated cost for the project including design, procurement, and installation. The high-level and detailed budgets have been developed by the City's communications design consultant.



**Idaho CARES Act Broadband Grant Budget**

<b>Line Item</b>	<b>Grant Dollars</b>				<b>Total</b>
<b>Totals</b>					

**Detailed Cost Estimate**

City of Nampa Broadband Grant  
 CM-9917(029)  
 7/15/2020



**TASK 1 - GRANT ADMINISTRATION**

1	CITY OF NAMPA	HR	\$ 100.00	80	\$ 8,000.00
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**TASK 2 - PROJECT PERMITTING**

1	IDAHO POWER MAKE READY WORK	LS	\$ 20,000.00	1	\$ 20,000.00
2	UNION PACIFIC EASEMENT	EA	\$ 5,000.00	1	\$ 5,000.00

**TASK 3 - ENGINEERING SERVICES**

1	DESIGN SERVICES	LS	\$ 40,000.00	1	\$ 40,000.00
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**TASK 4 - CONSTRUCTION LABOR, EQUIPMENT, AND MATERIALS**

ITEM #	ITEM DESCRIPTION	UNIT	UNIT COST	QTY	TOTAL
1	MINOR CHANGE	EST	\$ 10,000.00	1	\$ 10,000.00
2	RECORD DRAWINGS	LS	\$ 2,000.00	1	\$ 2,000.00
3	SPCC	LS	\$ 10,000.00	1	\$ 10,000.00
4	MOBILIZATION	LS	\$ 20,000.00	1	\$ 20,000.00
5	PROJECT TEMPORARY TRAFFIC CONTROL	LS	\$ 35,000.00	1	\$ 35,000.00
6	EROSION CONTROL AND WATER POLLUTION PREVENTION	Eq. Adj.	\$ 10,000.00	1	\$ 10,000.00
7	LANDSCAPE RESTORATION	Eq. Adj.	\$ 10,000.00	1	\$ 10,000.00
8	TRAFFIC DIVISION FACILITY UPGRADES	LS	\$ 29,000.00	1	\$ 29,000.00
	SMALL CABLE VAULT	EA	\$ 4,000.00	1	\$ 4,000.00
	FIBER OPTIC SPLICE CLOSURE	EA	\$ 20,000.00	1	\$ 20,000.00
	12 SMFO PRETERMINATED PATCH PANEL	EA	\$ 500.00	1	\$ 500.00
	12 SMFO PRETERMINATED PIGTAIL	LF	\$ 5.00	300	\$ 1,500.00
	ETHERNET SWITCH	EA	\$ 3,000.00	1	\$ 3,000.00
9	EMERGENCY OPERATIONS CENTER UPGRADES	LS	\$ 29,500.00	1	\$ 29,500.00
	SMALL CABLE VAULT	EA	\$ 4,000.00	1	\$ 4,000.00
	FIBER OPTIC SPLICE CLOSURE	EA	\$ 10,000.00	1	\$ 10,000.00
	48 SMFO PRETERMINATED PATCH PANEL	EA	\$ 1,000.00	1	\$ 1,000.00
	48 SMFO PRETERMINATED PIGTAIL	LF	\$ 5.00	300	\$ 1,500.00
	ETHERNET SWITCH	EA	\$ 3,000.00	1	\$ 3,000.00
	NETWORK FIREWALL	EA	\$ 5,000.00	1	\$ 5,000.00
	BROADBAND ROUTER	EA	\$ 5,000.00	1	\$ 5,000.00
10	FIBER INFRASTRUCTURE - SEGMENT 1	LS	\$ 293,900.00	1	\$ 293,900.00
	CONDUIT PIPE 3 IN. DIAM. SCH80 - BORE	LF	\$ 50.00	4100	\$ 205,000.00
	CONDUIT PIPE 3 IN. DIAM. RGS - MOUNTED	LF	\$ 100.00	300	\$ 30,000.00
	SMALL CABLE VAULT	EA	\$ 4,000.00	6	\$ 24,000.00
	SIDEWALK PANEL REPLACEMENT	EA	\$ 900.00	6	\$ 5,400.00
	FIBER OPTIC CABLE - 144 SMFO CABLE	LF	\$ 5.00	4700	\$ 23,500.00
	12 SMFO PRETERMINATED PATCH PANEL	EA	\$ 500.00	3	\$ 1,500.00
	12 SMFO PRETERMINATED PIGTAIL	LF	\$ 5.00	900	\$ 4,500.00
11	FIBER INFRASTRUCTURE - SEGMENT 2	LS	\$ 67,300.00	1	\$ 67,300.00
	CONDUIT PIPE 2 IN. DIAM. POLE RISER, PVC	EA	\$ 500.00	2	\$ 1,000.00
	SMALL CABLE VAULT	EA	\$ 4,000.00	2	\$ 8,000.00
	MESSENGER CABLE	LF	\$ 7.00	3000	\$ 21,000.00
	SIDEWALK PANEL REPLACEMENT	EA	\$ 900.00	2	\$ 1,800.00
	FIBER OPTIC SPLICE CLOSURE	EA	\$ 7,500.00	2	\$ 15,000.00
	FIBER OPTIC CABLE - 144 SMFO CABLE	LF	\$ 5.00	3300	\$ 16,500.00
	12 SMFO PRETERMINATED PATCH PANEL	EA	\$ 500.00	2	\$ 1,000.00
	12 SMFO PRETERMINATED PIGTAIL	LF	\$ 5.00	600	\$ 3,000.00
12	LAKEVIEW PARK INFRASTRUCTURE AND EQUIPMENT	LS	\$ 21,000.00	1	\$ 21,000.00
	WIRELESS ACCESS POINT	EA	\$ 5,000.00	1	\$ 5,000.00
	WALL MOUNTED CABINET	EA	\$ 3,000.00	1	\$ 3,000.00
	POWER CABLING	LF	\$ 10.00	50	\$ 500.00
	FIBER OPTIC SPLICE CLOSURE	EA	\$ 7,500.00	1	\$ 7,500.00
	12 SMFO PRETERMINATED PATCH PANEL	EA	\$ 500.00	1	\$ 500.00
	12 SMFO PRETERMINATED PIGTAIL	LF	\$ 5.00	300	\$ 1,500.00
	ETHERNET SWITCH	EA	\$ 3,000.00	1	\$ 3,000.00

SUBTOTAL	\$ 537,700.00
TAX	6% \$ 32,262.00
CONTINGENCY	20% \$ 107,540.00
TASK 4 SUBTOTAL	\$ 677,502.00

**TASK 5 - PROJECT VALIDATION**

1	CITY OF NAMPA	HR	\$ 100.00	40	\$ 4,000.00
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<b>PROJEC TOTAL</b>	<b>\$ 754,502.00</b>
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<b>CITY MATCH</b>	<b>\$ 50,000.00</b>
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<b>GRANT REQUEST</b>	<b>\$ 704,502.00</b>
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## ATTACHMENT 3. PROJECT SCHEDULE FORM

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Attachment 3 includes the anticipated schedule for the project. The expedited schedule has been verified by local communication contractors, accounting for equipment lead times and competitive bid requirements.







## **ATTACHMENT 4. LETTERS OF SUPPORT**

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Attachment 4 includes letters of support from proposed operators and users of the broadband communications including: Nampa Police Department, Parks & Rec Department, IT Department, and Economic & Community Development Department.





July 13<sup>th</sup>, 2020

City of Nampa Public Works Department  
500 12<sup>th</sup> Avenue South  
Nampa, Idaho 83651

RE: State of Idaho Broadband Grant – Letter of Support

Dear Jeff Barnes,

I am pleased to confirm that the City of Nampa Economic Development Department is in full support of the State of Idaho Broadband Grant application for Public Safety and Local Government.

The City of Nampa Economic Development Department supports the project intent to facilitate telework and distance learning by providing public broadband access at the Lakeview Park thereby improving public safety in compliance with COVID-19 public health precautions.

Sincerely,

7/13/20

---

Beth Ineck  
Economic Development Director

---

Date



July 15<sup>th</sup>, 2020

City of Nampa Public Works Department  
500 12<sup>th</sup> Avenue South  
Nampa, Idaho 83651

RE: State of Idaho Broadband Grant – Letter of Support

Dear Jeff Barnes,

I am pleased to confirm that the City of Nampa IT Department is in full support of the State of Idaho Broadband Grant application for Public Safety and Local Government. We have confirmed staff availability to provide technical support to aid the outsourced service and maintenance provider as needed to ensure safe implementation of the broadband access and to ensure the project meets the December 15<sup>th</sup>, 2020 completion date.

The City of Nampa IT Department supports the project intent to facilitate telework and distance learning by providing public broadband access at the Lakeview Park thereby improving public safety in compliance with COVID-19 public health precautions.

Sincerely,

*Barrell H. Schierman, Jr.*

07/15/2020

---

Butch Schierman  
IT Director

---

Date



**Debbie Kling  
Mayor**

**Nampa Parks & Forestry Department**  
312 1<sup>st</sup> Street South Nampa, ID 83651  
(208) 468-5890 Fax (208) 465-2321  
[www.nampaparks.org](http://www.nampaparks.org)

**NAMPA** *Proud*

July 15<sup>th</sup>, 2020

City of Nampa Public Works Department  
500 12<sup>th</sup> Avenue South  
Nampa, Idaho 83651

RE: State of Idaho Broadband Grant – Letter of Support

Dear Jeff Barnes,

I am pleased to confirm that the City of Nampa Parks and Recreation Department is in full support of the State of Idaho Broadband Grant application for Public Safety and Local Government. We have confirmed staff availability to ensure the project meets the December 15<sup>th</sup>, 2020 completion date. The City of Nampa Parks Department will also provide input and oversight of Wi-Fi equipment installation at Lakeview Park.

The City of Nampa Parks and Recreation Department supports the project intent to facilitate telework and distance learning by providing public broadband access at the Lakeview Park thereby improving public safety in compliance with COVID-19 public health precautions.

Sincerely,

A handwritten signature in cursive script that reads "Cody Swander".

Cody Swander  
Nampa Parks Superintendent  
Nampa Parks Division



July 15<sup>th</sup>, 2020  
City of Nampa

Idaho CARES Act Broadband Grant  
Community Match

Community: City of Nampa

Contributor name & title: Jeff Barnes, Deputy Public Works Director

Agency: City of Nampa, Public Works Department

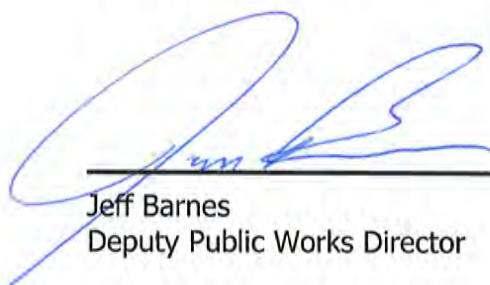
DESCRIPTION OF DONATION:

Date: July 15<sup>th</sup>, 2020

The City of Nampa, Public Works Department will commit a contribution to primarily help cover upfront costs associated with Union Pacific Railroad and Idaho Power permitting and easements.

Total Amount Contributed to Project:       **\$50,000**

I hereby certify that the above listed contributions have been made in the amount(s) shown.

  
\_\_\_\_\_  
Jeff Barnes  
Deputy Public Works Director

7/14/20  
Date

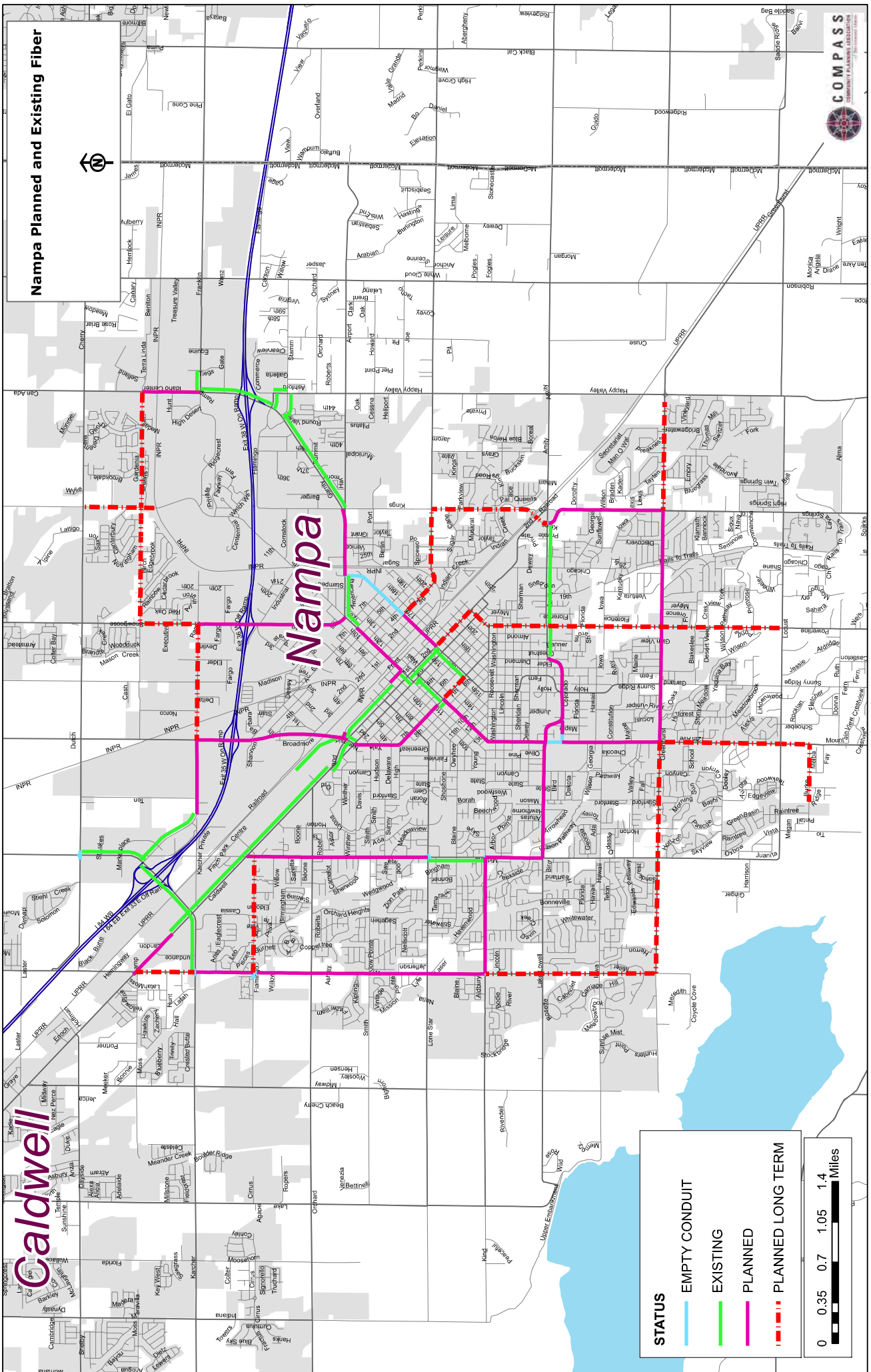
## ATTACHMENT 5. **COMMUNITY BROADBAND PLAN**

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Attachment 5 includes the Treasure Valley Transportation System Operations and Maintenance (TSMO) Strategic Plan developed by the Community Planning Association of Southwest Idaho (COMPASS). The plan identifies a critical communications gap detailed in the Nampa Project Concept (Attachment 1) and addressed by the broadband project.



**Nampa Planned and Existing Fiber**



**Caldwell**

**Nampa**

**STATUS**

- EMPTY CONDUIT
- EXISTING
- PLANNED
- PLANNED LONG TERM







*FINAL REPORT*

# Treasure Valley Transportation Systems Management and Operations (TSMO) Strategic Plan

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Submitted to Community Planning Association of Southwest Idaho (COMPASS)  
by IBI Group  
With [DKS Associates](#) and [McFarland Management](#)  
January 16, 2020

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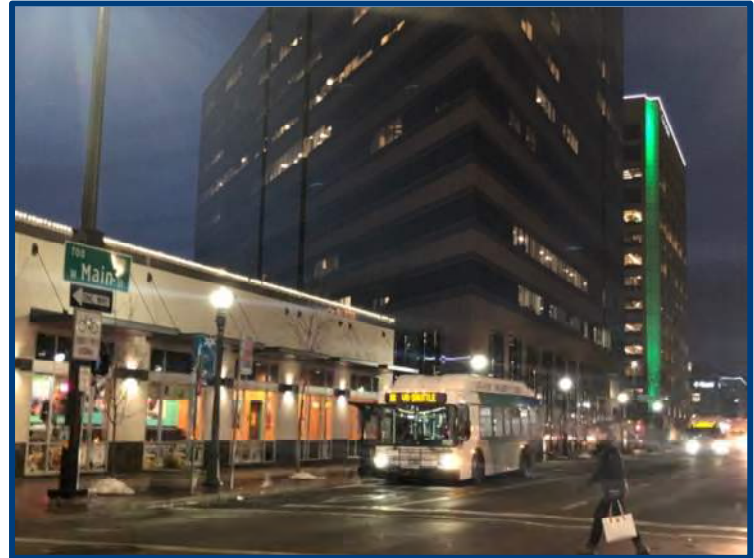
Acronym	Definition
ACHD	Ada County Highway District
ARC-IT	Architecture Reference for Cooperative & Intelligent Transportation
ATMS	Advanced Traffic Management System
AV	Automated Vehicle
CAV	Connected and Automated Vehicle
CCTV	Closed Circuit Television
CIM	Communities in Motion
CMM	Capability Maturity Model
CNG	Compressed Natural Gas
COMPASS	Community Planning Association of Southwest Idaho
CV	Connected Vehicle
DMS	Dynamic Message Signs
DOT	Department of Transportation
EMS	Emergency Medical Services
EOC	Emergency Operations Center
FAST Act	Fixing America's Surface Transportation Act
FHWA	Federal Highway Administration
FTA	Federal Transit Authority
GIS	Geographical Information System
HAR	Highway Advisory Radio
ITD	Idaho Transportation Department
ITS	Intelligent Transportation Systems
MaaS	Mobility as a Service
MAP-21	Moving Ahead for Progress in the 21st Century
MOD	Mobility on Demand
MPO	Metropolitan Planning Organization
NHD	Nampa Highway District #1
O&M	Operations and Maintenance
RAD-IT	Regional Architecture Development for Intelligent Transportation
ROWG	Regional Operations Workgroup
RWIS	Road Weather Information System
TMC	Traffic Management Center
TNC	Transportation Network Companies
TSMO	Transportation Systems Management and Operations
TSP	Transit Signal Priority
USDOT	U.S. Department of Transportation
V2I	Vehicle-to-Infrastructure
V2V	Vehicle-to-Vehicle
VRT	Valley Regional Transit

# 1 The Case for TSMO in the Treasure Valley

## 1.1 Introduction

The Treasure Valley Transportation Systems Management and Operations (TSMO) Strategic Plan presents a cooperative approach to manage and operate the region's multi-modal transportation system to improve safety, efficiency, and reliability.

The plan covers Ada and Canyon Counties, which together form Idaho's Treasure Valley. It covers a planning horizon of ten years from 2020 through 2030, with an emphasis on solutions that can be implemented in the near term, and at relatively low cost compared with conventional capital investments.



*Valley Regional Transit is a TSMO plan stakeholder that has vastly advanced its technology program over the past five years.*

Because many TSMO strategies are enabled by rapidly-evolving technologies, including Intelligent Transportation Systems (ITS) and advances in mobile technology, effective TSMO implementation requires ongoing coordination and a willingness to embrace emerging operational strategies.

Implementing TSMO will benefit the region by providing new and effective tools to address the transportation needs of the Treasure Valley while increasing mobility options for travelers.

The Community Planning Association of Southwest Idaho (COMPASS) sponsored the development of the TSMO Strategic Plan. COMPASS is the federally designated Metropolitan Planning Organization (MPO) for Ada and Canyon Counties. The plan was developed by a Regional Operations Workgroup (ROWG) representing numerous state, regional, county, and local transportation and emergency services agencies.

COMPASS anticipates maintaining the TSMO Strategic Plan as a living document going forward, with interim updates completed in consultation with participating agencies in the Regional Operations Workgroup. Updates to the plan may occur every five years.

## What is Transportation System Management and Operations (TSMO)?

As defined by the Federal Highway Administration (FHWA)<sup>1</sup>, TSMO is a set of strategies that focus on operational improvements to maintain, manage and even restore the performance of the existing transportation system before extra capacity is needed.

TSMO is an iterative process, where management and operations stakeholders and planners work together to define a common vision for transportation system operations in the region, develop operations objectives to guide the selection of management and operations strategies, and identify performance measures that will enable them to track progress toward their objectives (Figure 1).

The goal of TSMO is to maximize the performance of current transportation facilities and the transportation system. This requires knowledge, skills, and techniques to administer comprehensive solutions that can be quickly implemented at a relatively low cost, enabling transportation agencies to “stretch” their funding to benefit more areas and customers. TSMO helps agencies balance supply and demand and provide flexible solutions to match changing conditions, demographics, and technology, as well as external pressures. Successful TSMO plans have three key elements:

- **Strategic elements** are the foundation for developing a TSMO program. These elements define the relationship of TSMO to the agency mission or regional vision. The strategic aspect of TSMO program planning provides answers to questions of “why” TSMO is important, and a high-level vision of “what” the agency seeks to achieve, along with strategic goals and objectives. This Introduction, as well as Section 3, Regional TSMO Toolkit, discuss these strategic elements.
- **Programmatic elements** address issues surrounding organizational structure and business processes for implementing TSMO activities. This level of planning addresses “how” the program operates, resource and workforce needs, and internal and external coordination and collaboration. It identifies responsibilities of organizational units for specific TSMO services, projects, and activities, as well as use of analysis tools to guide investment decision-making. Section 2, Current Conditions and Regional Needs Assessment, provides these programmatic elements.
- **Tactical elements** step down from the broad institutional and organizational issues to address specific services, programs, and priorities. The Regional ITS Architecture and Regional ITS Implementation Plan provide these tactical elements.

Early involvement and buy-in of stakeholders and key decision-makers enables the development of effective TSMO strategies, as explained in the graphic below. Successful TSMO plans tend to involve multiple workshops to establish an understanding of the current and future operational contexts, regional trends, and where the greatest congestion bottlenecks occur. During these workshops, stakeholder roles and responsibilities are defined and approaches to traffic management strategies and performance measures are developed. TSMO strategies are finalized in follow-up workshops, and once accepted by the group, are implemented by stakeholders.

---

<sup>1</sup> Source: *Developing and Sustaining a Transportation Systems Management & Operations Mission for Your Organization A PRIMER FOR PROGRAM PLANNING*; prepared by USDOT Federal Highway Administration; September 2017.  
<https://ops.fhwa.dot.gov/publications/fhwahop17017/fhwahop17017.pdf> accessed September 24, 2019



Figure 1: FHWA TSMO Process



### Examples of TSMO in the Treasure Valley

TSMO strategies are employed across the region today, by multiple agencies, to improve the effectiveness of the multi-modal regional transportation system.

Examples include:

- **Incident and Emergency Management:** The Idaho Transportation Department (ITD), Ada County Highway District (ACHD), State Communications (StateComm), and emergency management personnel use technologies to identify and respond to traffic incidents, special events, and severe weather across the region.
- **Traffic Signal Coordination:** Many traffic signal systems in the region are integrated into advanced computerized systems that optimize signal timing based on prevailing traffic conditions and/or incident/event scenarios.
- **Traveler Information:** ITD provides multimodal real-time traveler information through its 511 traveler information telephone system, smartphone app, and website (511.idaho.gov). ACHD provides traffic camera feeds and other information through its website. Regional agencies partner with private providers to improve situational awareness of agencies and travelers about real-time conditions.
- **Transit Management:** Valley Regional Transit (VRT) has invested in technologies that support real-time tracking and dispatch of transit vehicles real-time bus arrival information for its customers, and other advanced applications.

While enabled by advanced transportation technologies, these TSMO strategies also rely on personnel, coordinated plans, supportive policies, and collaboration among agencies to proactively operate the transportation system.

### Geographic Coverage

The TSMO Strategic Plan, as well as the updated Regional ITS Architecture, cover Ada and Canyon Counties which form Idaho's Treasure Valley and are shown in Figure 2.

Idaho's Treasure Valley extends from the Oregon border on the west through Ada and Canyon Counties to the east, following Interstate 84 (I-84) corridor.

The Treasure Valley includes the cities of Boise, Eagle, Garden City, Kuna, Meridian, and Star in Ada County; plus, Caldwell, Nampa, Middleton, Notus, Wilder, Greenleaf, Melba, and Parma in Canyon County.

The two counties include both rural and urbanized areas. TSMO strategies are most commonly applied in urban areas where traffic congestion, high incident frequency, and other complex operating conditions merit a proactive approach to transportation system management.

However, there are rural applications of TSMO that focus on traveler information, incident management, winter maintenance, and construction/maintenance management.

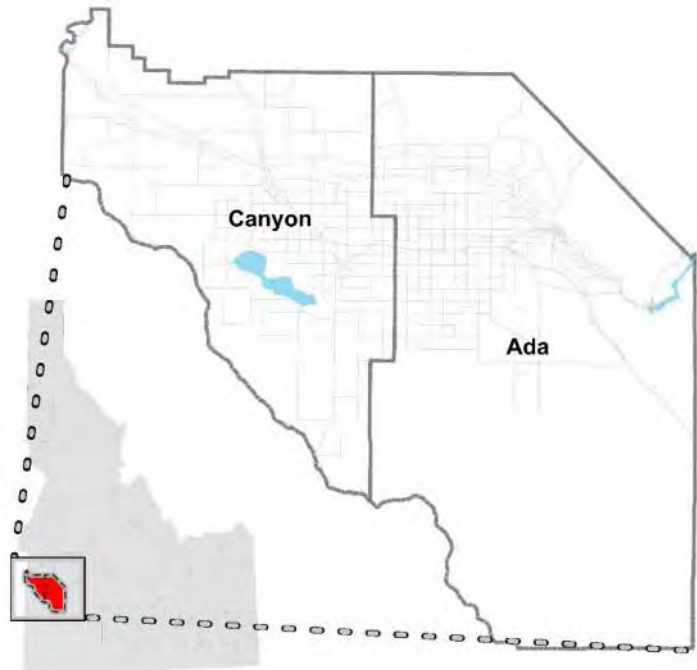


Figure 2: Map of Canyon and Ada Counties

## 1.2 Why TSMO in the Treasure Valley?

### A Vision for Active Traffic Management

Regional agencies developed a TSMO Vision for the Treasure Valley in 2014 as part of the development of the region's first TSMO plan.

Following review by participating agencies, this vision remains unchanged for the 2020 plan update.

The vision reflects the value of TSMO to the region and the commitment to cooperative approaches to operations and management of the multi-modal transportation system.

---

*Treasure Valley TSMO Vision:  
 Provide active management of the  
 Treasure Valley's multimodal  
 transportation system through agency  
 partnerships and investment in ITS  
 technology, as an essential regional  
 strategy to maximize the performance of  
 the transportation system*

### TSMO Is Important to the Region's Mobility Future

The Treasure Valley routinely ranks as one of the fastest-growing metropolitan areas in the United States. Along with rapid population growth comes substantial pressure on the regional transportation system across an expanding urbanized area.

While Ada County has long been the region's urban core, increasing growth in Canyon County communities such as Nampa and Caldwell is expanding transportation demand and congestion further to the west along the I-84 corridor.

The ability to expand transportation system capacity to accommodate the increased demand is constrained by financial, environmental, and right-of-way constraints. The pace of infrastructure expansion alone cannot keep pace with the expectations of travelers. This requires new and innovative thinking about how the region can accommodate growth by making the most of the transportation infrastructure that exists today, and by strategically investing available transportation dollars in solutions that make a difference.

Below are a number of reasons why TSMO is a key part of the Treasure Valley's transportation strategy:





- Operational issues (such as non-recurring congestion, incidents, and weather events) are a growing source of regional traffic congestion.
- Agencies are seeking affordable solutions to meet growing transportation demand.
- The public increasingly expects technology-enabled travel options and up-to-date information.
- TSMO complements other low-cost transportation strategies and can be implemented in the near term.
- Many TSMO strategies have been proven effective in other regions facing similar challenges.
- Past TSMO investments and partnerships provide a foundation for future success.

The impact of "non-recurring" congestion, due to accidents, special events, and winter weather, for example, have an outsized impact on travel conditions and the perceptions of travelers about the quality of the transportation system.

There is an opportunity to gain efficiency from the region's existing transportation infrastructure. Moreover, travelers can benefit from more up-to-date information on real-time travel conditions and mobility alternatives, such as transit, car share, and bike share.

TSMO can contribute to the improvement of each element of the Treasure Valley's multi-modal transportation system (Table 1). TSMO provides strategies and tools that allow operating agencies to proactively manage the transportation network, and for the traveling public to make more informed choices. As the region continues to grow, TSMO will remain an important part of the region's overall strategy to maintain, maximize, expand, and diversify the region's transportation network.

Table 1: TSMO Contributes to All Modes

	<p><b>Active Transportation</b> (cyclists and pedestrians) is a growing component of the Treasure Valley’s transportation system. Addressing bike and pedestrian safety and infrastructure needs is key.</p> <p><i>TSMO supports active transportation through applications such as pedestrian-actuated crossing beacons, crosswalk countdown timers, bicycle detection at traffic signals, and trip planning for shared modes.</i></p>
	<p><b>Freight</b> is vital to the Treasure Valley economy. Using data collected from previous studies, multiple critical urban freight corridors have been designated, and COMPASS has integrated freight into its planning to address safety and congestion.</p> <p><i>TSMO supports freight by increasing the reliability of the region’s arterials and freeways through active traffic management, enhanced signal traffic signal operations, and ramp metering.</i></p>
	<p><b>Public transportation</b> in the Treasure Valley is operated by VRT and Treasure Valley Transit (TVT), providing fixed route and paratransit bus service in both urban and rural communities in the region. Transit reliability and customer information needs are key components to this TSMO plan.</p> <p><i>TSMO supports public transportation through speed and reliability enhancements for transit, improved multi-modal trip planning, real-time information, convenient fare payment, and many other applications.</i></p>
	<p><b>Roadways</b> are the backbone of the transportation system in the region and include surface streets, arterials, and state and interstate highways.</p> <p><i>TSMO supports road users through improved incident management, better winter road maintenance, reduced signal delay, better routing information, and many other services.</i></p>

COMPASS, as the MPO for Ada and Canyon Counties, helps shape transportation planning and strategic planning initiatives, such as the region’s long-range transportation plan, *Communities in Motion 2040 2.0* (CIM 2040 2.0), facilitating regional cooperation, and managing how and where federal transportation funds are invested in transportation projects in Ada and Canyon Counties. COMPASS helps ensure that transportation projects continue to meet the region’s growing needs and provide the greatest benefit to the region.

TSMO supports COMPASS’ complete streets/network concepts by taking a holistic approach to the Treasure Valley’s transportation system. The intent of complete streets/network concepts are to promote a balanced approach to roadways and associated infrastructure for motorists,

bicyclists, transit, and pedestrians of all ages and abilities, with emphasis on increasing the safety, efficiency, and economic vitality of the region.

### 1.3 History of TSMO in Treasure Valley

Agencies in the Treasure Valley have been actively planning and deploying advanced transportation technologies for over 20 years. The scope and intensity of TSMO efforts has grown over the years, from a few ITS demonstration projects to full-scale regional deployments with substantial commitments of resources from multiple agencies.

---

**Since the region's first TSMO plan was completed in 2014, over \$14 million has been invested in 44 completed projects in the Treasure Valley.**

---

In 1999, the region completed its first *ITS Strategic Plan and Architecture Plan*. The plan included an ITS deployment roadmap and project list, a communication plan, and ITS architecture documents. Since that time, multiple local agencies, including ACHD and ITD, have commissioned further studies and plans for incident and emergency management, deployment statistics and inventories of capital improvements, and communications infrastructure and ITS.

By 2006, growth in the Treasure Valley required a more pragmatic approach to ITS and congestion management to meet the region's needs. The 2006 *Treasure Valley Intelligent Transportation Systems Strategic Plan* focused on coordinated approaches to ITS technologies and included additional transportation and traffic management and operations considerations.

The region's first TSMO plan, known as *Treasure Valley Transportation System: Operations, Management, and ITS*, was completed in 2014. This plan incorporated broader aspects of TSMO beyond ITS technology, such as improving interagency collaboration and linking TSMO to regional planning. For the first time, the plan covered both Ada and Canyon Counties, to reflect the growth in transportation demand and operations potential in Canyon County.

The 2014 plan established a Regional TSMO Toolkit reflecting a wide range of technology and inter-agency coordination strategies including incident management, arterial and freeway management, traveler information, public transportation management, road weather, regional data archiving, and maintenance/construction management.

#### Significant Recent Accomplishments

The 2014 TSMO plan contained a project implementation plan reflecting each of the TSMO strategies and involving multiple agencies. Substantial progress in project implementation was achieved between the release of the 2014 plan and the present.

Key TSMO implementation accomplishments since the completion of the 2014 TSMO plan are summarized in Table 2 below.

Table 2: Key TSMO Accomplishments

Category	TSMO Accomplishments since 2014
Communications Systems Upgrades	<ul style="list-style-type: none"> <li>Regional agencies installed and upgraded fiber optic communications along key corridors, arterials, and highways to support traffic management &amp; monitoring, ITS deployments and networked communications devices.</li> <li>Building on collaboration through the ROWG, ACHD, City of Boise, and Boise State University constructed a shared fiber optic project in downtown Boise. The project resulted in an estimated</li> </ul>

Category	TSMO Accomplishments since 2014
	capital cost savings of \$600,000, plus additional savings in operations and maintenance (O&M) costs.
<b>Traffic Signal Upgrades</b>	<ul style="list-style-type: none"> <li>• ACHD initiated the SMART Arterial Management program to replace traffic signal controllers and detection devices at 82 intersections and implement new traffic signal performance measures.</li> <li>• Multiple agencies performed signal timing updates in key corridors to reduce travel times and increase system reliability.</li> <li>• ACHD and VRT collaborated to install upgraded traffic signal equipment to support transit signal priority (TSP) on the State Street corridor in Boise.</li> <li>• Emergency vehicle pre-emption technology was deployed and maintained by agencies across the region.</li> <li>• The City of Nampa made initial strides towards interconnecting traffic signals and establishing a new central traffic management system.</li> </ul>
<b>Traveler Information</b>	<ul style="list-style-type: none"> <li>• ITD installed additional dynamic message signs (DMS) along freeways and other key decision points along highly-traveled routes to provide incident and travel time alerts.</li> <li>• ITD completed significant enhancements to the Idaho 511 statewide traveler information system, including text notifications.</li> </ul>
<b>Emergency and Incident Response</b>	<ul style="list-style-type: none"> <li>• Emergency response vehicles and ITD fleet vehicles were equipped to enable emergency vehicle pre-emption at signalized intersections.</li> <li>• Ada County opened a new 911 Emergency Dispatch Center which works closely with traffic agencies on incident response.</li> </ul>
<b>Public Transportation Management</b>	<ul style="list-style-type: none"> <li>• VRT procured and installed new public transportation technologies to improve efficiency and provide ridership data, including computer-aided dispatch, real-time passenger information, automatic passenger counters, new fare boxes, and onboard stop annunciation.</li> <li>• VRT partnered with ACHD to implement TSP on State Street.</li> <li>• VRT implemented and operated a new bike share service.</li> </ul>
<b>Freeway and Arterial Management</b>	<ul style="list-style-type: none"> <li>• ITD implemented a new statewide traffic management system in partnership with StateComm.</li> <li>• The ACHD Traffic Management Center was upgraded to include new closed circuit television (CCTV) camera feeds, additional ITS field devices, and a new video wall.</li> <li>• An online, multi-agency detour plan for I-84 and I-184 was developed to improve management of traffic impacts from freeway incidents.</li> </ul>
<b>Data Management</b>	<ul style="list-style-type: none"> <li>• COMPASS led the development of a Regional Data Center that hosts ITS and communications inventory data.</li> <li>• COMPASS GIS capabilities supported the development and hosting of the online I-84/I-184 Detour Plan.</li> </ul>
<b>Regional Collaboration</b>	<ul style="list-style-type: none"> <li>• Following the completion of the 2014 plan, the ROWG met to discuss implementation of planned projects and other coordination issues, as well as opportunities, benefits, and challenges of fiber optic network sharing among agencies.</li> </ul>

Category	TSMO Accomplishments since 2014
Regional Planning	<ul style="list-style-type: none"> <li>TSMO was incorporated into CIM 2040 2.0.</li> <li>COMPASS hosted educational activities to promote awareness of TSMO needs and opportunities.</li> </ul>
Other Initiatives	<ul style="list-style-type: none"> <li>The State of Idaho initiated an Autonomous and Connected Vehicle Testing and Deployment Committee, with Treasure Valley representation, to coordinate statewide efforts.</li> </ul>

### Regional Operations Workgroup Leadership

In 2011, COMPASS first convened the ROWG, comprised of regional transportation and emergency management agencies. The ROWG served as the project steering committee for the development of the Treasure Valley TSMO Strategic Plan (see sidebar).

The ROWG provides a forum for agencies interested in cooperative regional approaches to operating and managing the multi-modal transportation network. The ROWG focuses on multimodal transportation system efficiency, reliability, safety, and ease of use as it relates to the regional planning process, including planning for operations through a coordinated approach to multimodal system operations, ITS data management, and maintenance of related planning documents.

The ROWG formed to support the development of the region's initial TSMO plan and has met periodically to discuss regional TSMO issues and to complete other initiatives, such as the update of the I-84/I-184 Detour Plan. The ROWG is similar to multi-agency operating groups active in other metropolitan areas around the county, which are often also sponsored by MPOs.

In addition to guiding the development of the plan, the ROWG plays a critical role in its implementation. Many of the regional strategies identified in the TSMO plan require cooperative efforts to deploy ITS infrastructure, develop operating policies, secure capital and operating funds, and advocate for TSMO as a regional transportation strategy. The ongoing efforts of the ROWG in the future are also necessary to complete periodic updates to the plan, to ensure its relevance to the needs of the region.

#### Regional Operations Workgroup: TSMO Plan Participating Agencies

- ACHD
- Ada County Sherriff
- City of Boise
- Canyon County Sheriff
- City of Caldwell
- City of Meridian (Planning and Police Department)
- City of Nampa (Traffic Services and Police Department)
- COMPASS
- ITD District 3
- ITD – Headquarters (Operations and Emergency Management)
- Idaho State Police (ISP)
- Nampa Highway District No. 1
- StateComm
- TVT
- VRT
- FHWA – Idaho

## 1.4 TSMO Strategic Plan Development Process

COMPASS facilitated the development of the TSMO Strategic Plan in partnership with stakeholder agencies comprising the ROWG. The project initiated in fall 2019, with four meetings of the ROWG in January, May, September, and December 2019.

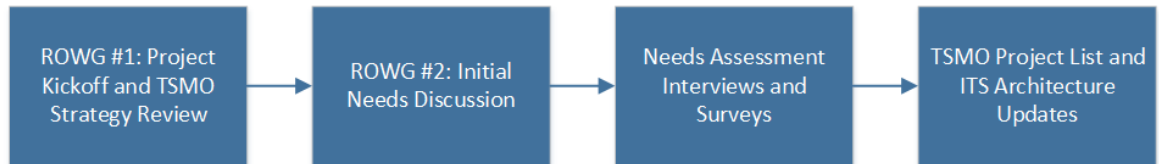
At the initial ROWG Meeting #1 in January, information on updated needs was solicited from the from stakeholder agencies. Participants also reflected on accomplishments since the 2014 plan was developed, as well as on current opportunities and challenges.

At ROWG Meeting #2, agencies reviewed a draft updated regional ITS and communications inventory prepared by COMPASS. Numerous other topics relevant to the TSMO plan

development were also discussed, including toolkit operational strategies and impacts of emerging technologies.

Following ROWG Meeting #2, in-depth interviews were held with leadership at stakeholder agencies, along with various follow-up emails, surveys, and phone calls to collect both needs and ITS inventory updates. This information was then fed into the updates to the TSMO project list and Regional ITS Architecture (Figure 3).

Figure 3: Information Gathering Process



A summary of the findings and updates was then presented at ROWG Meeting #3. Each item was presented to the group for feedback and concurrence. Finally, in ROWG Meeting #4, the workgroup reviewed the draft TSMO plan for agency input prior to finalization and also discussed implementing next steps following completion of the plan.

In total, over a dozen interviews and numerous follow-up conversations were held with the region's TSMO and ITS stakeholders. During these interviews, completed, current, and future projects were identified; feedback on the previous TSMO plan was obtained; and operational and technological needs were captured.

## 1.5 Plan Components

With this update, a deliberate shift in direction was undertaken to make the plan a living document that would be simpler to share and maintain in the face of rapidly-evolving transportation technologies. Several components of the plan have migrated from report format to electronic resources that can be more easily revised over time to keep them current and relevant to plan users, including:

- **ITS Inventory:** maintained by COMPASS in an ArcGIS database, as opposed to static maps in the report.
- **TSMO Implementation Plan (Project List):** available in tabular format from COMPASS, listing current TSMO projects by agency. The TSMO implementation plan is intended to be updated and revised each year to reflect deployment progress, commitment of funding, and changing agency needs/priorities
- **ITS Architecture:** available through COMPASS and accessible as an electronic database file using the U.S. Department of Transportation's (USDOT's) free Regional Architecture Development for Intelligent Transportation (RAD-IT) software. The electronic ITS architecture allows for more convenient access by project design teams and ease of incorporating future updates.

This document comprises the report components of the plan. The remaining sections of the TSMO Strategic Plan report are organized as follows:

- **Existing Conditions and Needs Assessment:** This section provides context into the current ITS and TSMO implementation environment in the Treasure Valley, as well as describes the roles, challenges, and priorities of the various operating agencies. These current conditions and needs provide the baseline and framework into which new projects and initiatives must align.
- **Emerging Technology Impacts and Considerations:** This section provides an overview of changes in freight delivery, Mobility as a Service (MaaS), and



Connected and Automated Vehicles (CAV), and how the Treasure Valley is preparing for them.

- **Building a TSMO Toolkit:** This section describes the TSMO strategies that are applicable to the region and that will support the region in moving forward with addressing the needs in Section 2 (Current Conditions and Future Needs).
- **Putting the Pieces Together – The Regional ITS Architecture:** This section provides an overview of the Regional ITS Architecture, which is a federally-mandated database of ITS inventory, services, and information exchanges.
- **Communications Priorities:** This section describes how the region has invested in its communications infrastructure and will continue to do so, to provide the connections needed for future TSMO and ITS implementation.
- **Measuring and Managing Performance:** This section provides the performance metrics that COMPASS uses to provide regular monitoring and reporting. These metrics help to provide feedback on how the region is addressing its transportation needs and extensive growth, and where additional ITS and capital improvements may be necessary. The deployment of ITS devices provides greater opportunity to collect and assess data that measures the performance of the transportation network.
- **Implementing TSMO and Achieving the Vision:** This section focuses on steps to implement the TSMO strategies and achieve the vision over the next five to ten years through project implementation and regional collaboration.

## 2 TSMO in the Treasure Valley: Current Conditions and Future Needs

This section provides information on existing transportation and infrastructure conditions in the Treasure Valley, as well as an overview of agencies and stakeholders that are part of the region's transportation system and were included in the development of this TSMO Strategic Plan.

This information was collected through the process described in Section 1 (The Case for TSMO) and is presented both regionally, in describing the current conditions, equipment, and needs of the region, as well as through individual stakeholder profiles. The stakeholder profiles describe each stakeholder's functions, infrastructure, key needs, and what they will be focusing on from an operational and infrastructure perspective over the next ten years.

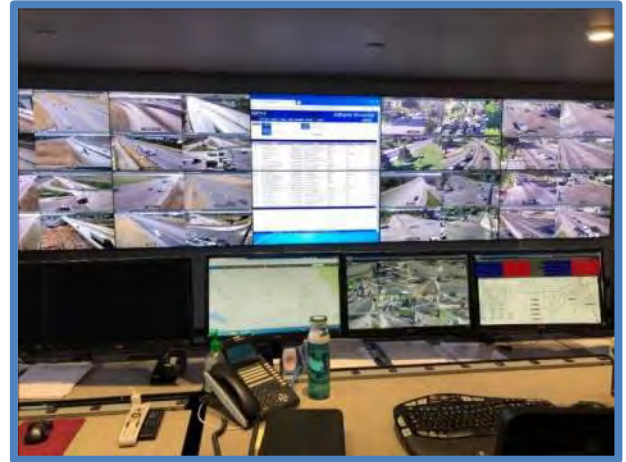


Figure 4: ACHD Traffic Management Center

### 2.1 Regional Operations Roles

Agencies in the region provide a wide range of transportation system management and operations services in the Treasure Valley through multiple partnerships and through the sharing of information, resources, and infrastructure. The region's growing population is served by a multi-agency street and highway network, fiber optic and wireless data communications system, regional transit system, and multiple law enforcement and emergency response agencies at the federal, state, county, and local levels. Key TSMO roles include:

- **StateComm** provides statewide traffic management center functions on state highways, under contract to ITD.
- **ACHD** manages, operates, and maintains the transportation infrastructure for all the cities within Ada County, as well as select ITD traffic signals (Figure 4).
- In Canyon County, the **City of Caldwell** and the **City of Nampa** manage, operate, and maintain their respective road networks, including certain ITD traffic signals.
- **ITD, StateComm, ACHD, and the Idaho State Police** coordinate incident response, but many other transportation and emergency management agencies, including Ada/Canyon County emergency dispatch and police and fire agencies, are also involved.
- VRT, the primary public transit agency, recently completed development of a five-year technology plan. **TVT** also provides rural transit services in the area.

Based on official demographic forecasts developed by COMPASS, the Treasure Valley is projected to surpass one million inhabitants by 2040. Therefore, the region is expected to face increases in congestion — investments in additional ITS infrastructure and regional TSMO strategies can help alleviate the additional pressure on the transportation system.

## 2.2 Regional Intelligent Transportation System Assets

Regional agencies have invested heavily in the development of the region’s communications and ITS capabilities. Existing roadway ITS assets are summarized in Table 3. Transit ITS infrastructure is detailed in the Treasure Valley Transit agency profile later in this section.

A current, detailed regional ITS inventory is available and maintained online by COMPASS.

Table 3: ITS Assets



ITS technologies generally use networked communication completed via cellular connections or fiber optic cable to connect to the Traffic Management Center (TMC) or owner/operator of the ITS equipment. In the Treasure Valley, over **545 miles of fiber** have been installed, providing connectivity and control capabilities to traffic signals, CCTV cameras, DMS signs, and other sensing equipment.



Advanced Traffic Management System (ATMS) software is used by TMCs to manage and control field devices and supporting systems. Both ACHD and ITD have their own ATMS software systems; however, the systems are from different vendors and are not integrated. The City of Nampa has reached a point in its growth where it is considering the need for ATMS capabilities within its own jurisdiction.



Approximately **544** intersections are signalized in the Treasure Valley. The majority of these traffic signals are equipped to provide emergency vehicle pre-emption and some are equipped to provide TSP, with the **first installation of TSP** completed on State Street in Boise.



Of the **544** intersections where **traffic signals** exist throughout the Treasure Valley, the majority can be managed by a central control system, which allows adjustment of signal timing for traffic demand management purposes and can also provide maintenance alerts if equipment is malfunctioning.



Approximately **197** intersections include **CCTV cameras** that are operated by multiple agencies in the Treasure Valley. The CCTV cameras are generally installed at high-traffic intersections in the urban core and along highways and arterials. The cameras are used to detect and manage traffic and incidents in the transportation network by providing a live view to traffic managers.



**Seventeen DMSs** have been deployed along major highways in the Treasure Valley. DMSs primarily serve traveler information functions, providing messages about en-route traffic conditions and incidents impacting travel. DMSs are controlled by ITD, ACHD, and StateComm.



ITD operates **eight highway advisory radio (HAR)** beacons in the Treasure Valley, which broadcast travel condition information over a three- to five-mile radius. HAR sites are often supplemented with static or dynamic message signs that alert drivers to tune into a radio station when important traveler information is being broadcast. However, ITD is now planning to decommission the HAR as drivers are using other mobile-based methods of receiving traveler information.

**Traffic monitoring equipment** is installed in many locations throughout the region and includes traffic loop detectors, radar, video, and Bluetooth readers to collect traffic volume, speed, and occupancy data.



**Sixteen road/weather information stations (RWIS)** have been deployed in the Treasure Valley. RWIS collect pavement and atmospheric data and are used by O&M personnel to support winter weather operations and provides alerts about road conditions via the traveler information systems such as 511 and DMS.



ITD, ACHD, Canyon County, City of Caldwell, and City of Nampa all operate **vehicle fleets for road weather and maintenance activities**. During the winter, keeping roadways clear of snow is important from both mobility and public safety standpoints. Both counties in the region use automatic vehicle location on their vehicles to support efficient winter weather operations.

## 2.3 Regional Needs

In the individual stakeholder interviews, as well as ROWG meetings, a commonly-heard theme across the region was that population and economic growth have continuously increased pressure on the road network, while funding remains limited to address congestion and expand the multimodal network in the region. Broadly speaking, stakeholders indicated that the region in the future will need to:

- Increase intra-jurisdictional coordination for **incident management**.
- Expand traffic and emergency management **center-to-center information sharing** and coordination between state and local jurisdictions.
- Increase **safety of pedestrians and cyclists** by prioritizing improvements for non-motorized travelers.
- Identify and deploy solutions that are **low-cost** and can be deployed in the **near term**.
- Preserve operational capabilities by **maintaining investments** made in TSMO.
- Address the increased user demand on the road network by providing **reliable public transportation**.
- Adapt to and leverage **new transportation technologies** and changing consumer expectations for urban travel, such as MaaS, transportation network companies, and first mile/last mile applications.
- Have a **flexible approach** to new transformative technologies such as automated and connected vehicles.

## 2.4 Stakeholder Profiles

The following tables summarize each regional agency that is active in regional TSMO programs and/or ITS deployment. Each table includes an operational profile, functions, key needs, and agency focus for moving forward with internal and collaborative TSMO programs. An ITS inventory maintained by each stakeholder and compiled by COMPASS is provided in Appendix C.

### Ada County Highway District



ACHD has operated its own TMC since 2000. The center includes day-to-day O&M, incident management, and traveler information dissemination for the roadway network within Ada County.

Operational Priorities	<ul style="list-style-type: none"> <li>• ACHD has achieved most of its objectives in building out its communications and ITS infrastructure and is now focusing on maintenance for the future.</li> <li>• ACHD strongly supports its TMC. The TMC enables good coordination with other agencies, especially emergency responders.</li> <li>• Future ITS projects will focus on proven technology and signal performance measurement.</li> </ul>
Functions	<ul style="list-style-type: none"> <li>• Freeway and Arterial Traffic Management</li> <li>• Incident and Emergency Management</li> <li>• Road Weather and O&amp;M</li> <li>• Traveler Information</li> </ul>
Key Needs	<ul style="list-style-type: none"> <li>• Continuous management of arterials for efficiency and safety.</li> <li>• Providing ongoing support to emergency responders to address incidents in the county.</li> </ul>
Forward Focus	<ul style="list-style-type: none"> <li>• Signal performance measurement and data collection.</li> <li>• Improving freight management and operations strategies, including truck traffic signal priority and freight data collection.</li> </ul>

## City of Boise



The City of Boise does not directly operate any ITS infrastructure, as it is managed by ACHD along with other transportation functions. From a planning and policy perspective, the City of Boise is working to improve overall multimodal movement of people into, out of, and through the city.

Operational Priorities	<ul style="list-style-type: none"> <li>The City of Boise supports public transportation, pedestrian, and bicycle services and facilities.</li> </ul>
Functions	<ul style="list-style-type: none"> <li>Improved bicycle and pedestrian crossings on arterials so they do not become barriers.</li> <li>Reliable public transportation service.</li> </ul>
Key Needs	<ul style="list-style-type: none"> <li>Continuing to support and expand VRT services, including the expansion of TSP to other routes (beyond State Street) in Boise City.</li> <li>Promoting and deploying technologies to enhance pedestrian and bicycle operations, comfort, and safety.</li> <li>Working with ACHD and ITD to improve vehicle movement in the city.</li> </ul>
Forward Focus	<ul style="list-style-type: none"> <li>Working closely with other agencies to promote safe and efficient vehicle, transit, bicycle, and pedestrian movement in and through the city.</li> </ul>

## City of Caldwell



The City of Caldwell's Traffic Operations Team provides traffic management and control support during incidents or other events. The City of Caldwell maintains street and traffic sign infrastructure, signals, and winter weather operations.

Operational Priorities	<ul style="list-style-type: none"> <li>The City of Caldwell continues to improve their ability to manage local traffic with better systems, and coordination with other agencies.</li> </ul>
Functions	<ul style="list-style-type: none"> <li>Arterial Traffic Management</li> <li>Incident and Emergency Management</li> <li>Road Weather and O&amp;M</li> <li>Traveler Information</li> </ul>
Key Needs	<ul style="list-style-type: none"> <li>Stronger coordination with City of Nampa and ITD District 3.</li> <li>Improving signal systems, timing coordination, and management of traffic flows throughout area.</li> </ul>
Forward Focus	<ul style="list-style-type: none"> <li>Continue to pursue funding and implement defined traffic management projects.</li> </ul>

### ITD District 3



ITD District 3 manages the operations and maintenance of state routes for a ten-county area in southwest Idaho. ITD also partners with StateComm for around-the-clock response to incidents and other traffic events. Key focus areas in the Treasure Valley include management of freeways and state highways, incident management, winter operations, and traveler information dissemination.

Operational Priorities	<ul style="list-style-type: none"> <li>• ITD D3 is focused on the basics of roadway maintenance and construction, incident management, and signal operation.</li> <li>• Generally satisfied with the coverage of interstate ITS infrastructure such as RWIS and signage.</li> <li>• Interested in expanding active freeway management operations. Better understanding will come from the planned I-84 Corridor Operations Plan.</li> </ul>
Functions	<ul style="list-style-type: none"> <li>• Freeway and Arterial Traffic Management</li> <li>• Incident and Emergency Management</li> <li>• Road Weather and O&amp;M</li> <li>• Traveler Information</li> </ul>
Key Needs	<ul style="list-style-type: none"> <li>• Increased data sharing and inter-departmental coordination with ACHD, City of Nampa, and City of Caldwell.</li> <li>• Clarification of roles and responsibilities for dynamic message signs.</li> <li>• Funding for additional incident response vehicles.</li> </ul>
Forward Focus	<ul style="list-style-type: none"> <li>• Complete I-84 Corridor Operations Plan and implement near-term recommendations.</li> </ul>

### ITD Headquarters



ITD Headquarters has overall statewide responsibility for ITS programs, including operation of the statewide 511 system. Most ITD traffic management and maintenance functions are performed at the district level with certain ATMS and dispatch functions performed by StateComm and ITS operations and maintenance provided by Headquarters.

Operational Priorities	<ul style="list-style-type: none"> <li>• ITD Headquarters is focused on continuing to maintain existing statewide systems.</li> </ul>
Functions	<ul style="list-style-type: none"> <li>• Interstate and Highway Traffic Management</li> <li>• Incident and Emergency Management</li> <li>• Traveler Information</li> </ul>
Key Needs	<ul style="list-style-type: none"> <li>• ITD Headquarters will continue to focus on maintenance of its key systems, including asset management for ITS and looking for additional information sharing and coordination opportunities with other agencies.</li> </ul>
Forward Focus	<ul style="list-style-type: none"> <li>• Improving engagement and coordination with other agencies, including ITD District 3, for traffic management, operations, and incident management.</li> </ul>

## City of Nampa



Multiple divisions within the Public Works Department work together to ensure the efficient movement of traffic in the City of Nampa, located in eastern Canyon County. The Street Division manages Nampa’s roadway network, this including maintenance of pavement, markings, and signals, and ensuring operations during winter weather conditions. The Nampa Police Department also plays an important role in responding to traffic incidents and supporting safe travel in the region.

Operational Priorities	<ul style="list-style-type: none"> <li>• The City of Nampa is focusing on significantly improving their ability to manage traffic through active monitoring at a new TMC with central control of signals and advanced communications systems.</li> <li>• The Nampa Police Department wants to be an active partner to use video to enhance law enforcement activities.</li> </ul>
Functions	<ul style="list-style-type: none"> <li>• Arterial Traffic Management</li> <li>• Incident and Emergency Management</li> <li>• Road Weather and O&amp;M</li> <li>• Traveler Information</li> </ul>
Key Needs	<ul style="list-style-type: none"> <li>• Improved signal, communications, and system management infrastructure.</li> <li>• Development and build-out of TMC, co-located with police department.</li> <li>• Improving coordination with other transportation and emergency response agencies.</li> </ul>
Forward Focus	<ul style="list-style-type: none"> <li>• Planning, designing, and building city-wide TMC, along with needed infrastructure and management software.</li> </ul>

## Emergency Management and Law Enforcement



Multiple 911 dispatch centers in the Treasure Valley exist; they serve as public safety answering points, operate 24-7, and dispatch the appropriate law enforcement, fire, and/or life safety services. During dispatch and emergency response, they also coordinate with traffic management and operations agencies.

Key 911/dispatch centers in the Treasure Valley include:

- Ada County 911 Communications Center
- Canyon County Communications Center
- Nampa Police Dispatch Center
- Idaho State Police Regional Communications Center South
- StateComm (ITS statewide dispatch center)

Operational Priorities	<ul style="list-style-type: none"> <li>• Emergency management and law enforcement agencies continue to work closely with transportation agencies and each other to support efficient and safe travel throughout the Treasure Valley.</li> </ul>
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Functions	<ul style="list-style-type: none"> <li>Incident and Emergency Management</li> </ul>
Key Needs	<ul style="list-style-type: none"> <li>Enhanced, automated integration of data between transportation agencies and other emergency management/law enforcement agencies.</li> <li>Access to, and limited control of, ITS assets and data to support emergency response and law enforcement activities (including CCTV cameras, signage, and traffic data).</li> </ul>
Forward Focus	<ul style="list-style-type: none"> <li>Continuing to be an active partner with transportation agencies to collaboratively support the enhancement and operations of technology systems to ensure efficient and safe movement of traffic/people throughout the Treasure Valley.</li> </ul>

### State Communications (StateComm)



StateComm, part of the Idaho Department of Health and Welfare, provides emergency management, dispatch, and communications for emergency medical services (EMS), ITD, Idaho Department of Fish and Game, hazardous material incidents, public health emergencies, AMBER Alerts, and many other situations and scenarios. StateComm coordinates with regional agencies at the local, state, and federal level, depending on the scope of the incident. Sixty-five percent of StateComm's operations focus on ITD activities. Medical emergencies take precedence over StateComm's day-to-day traffic management and operations.

Operational Priorities	<ul style="list-style-type: none"> <li>StateComm is focused on traffic incident management statewide, including training, engagement, and implementation.</li> <li>Continued strong relationship and support for ITD dispatch and 511 traveler information system data entry.</li> </ul>
Functions	<ul style="list-style-type: none"> <li>Freeway and Arterial Traffic Management</li> <li>Incident and Emergency Management</li> <li>Road Weather and O&amp;M</li> <li>Traveler Information</li> </ul>
Key Needs	<ul style="list-style-type: none"> <li>Ensuring proper implementation of traffic incident management principles.</li> <li>Supporting ITD's efforts to deploy future system O&amp;M software.</li> </ul>
Forward Focus	<ul style="list-style-type: none"> <li>Conducting traffic incident management courses in the Treasure Valley.</li> <li>Supporting effective region wide multi-agency coordination of operations.</li> </ul>

## Valley Regional Transit



VRT is the primary public transportation provider in the Treasure Valley and operates fixed route transit (ValleyRide) and Americans with Disability paratransit services, and coordinates other transportation services through a variety of partners such as local senior centers, TVT, Harvest Transit, and Rides2Wellness. VRT also supports ACHD’s Commuteride

vanpool program and the Boise GreenBike, bike share program. Additionally, TVT provides rural community transit and Medicaid transportation. Operations centers used for public transportation management include:

- ValleyRide Dispatch Centers in Boise and Caldwell
- VRT Meridian Call Center
- TVT Dispatch Center in Nampa

Operational Priorities	<ul style="list-style-type: none"> <li>• VRT has accomplished significant foundational technology projects in the past five years.</li> <li>• Their goal is to leverage their successes and continue to utilize technology advances to enhance operational efficiencies, on-time performance, and safety in all transit operations.</li> </ul>
Functions	<ul style="list-style-type: none"> <li>• Public Transportation Management</li> <li>• Traveler Information</li> <li>• Customer Service (One-call center)</li> </ul>
Key Needs	<ul style="list-style-type: none"> <li>• Implement technology solutions that reduce customer’s barriers to access, improve efficiency of operations, increase the utilization of transportation options by removing barriers between service providers, and enhance essential infrastructure.</li> </ul>
Forward Focus	<ul style="list-style-type: none"> <li>• Implementing the recently updated and approved the VRT Technology Plan, which includes numerous specific prioritized projects.</li> <li>• Report on the effectiveness of transit signal priority and explore opportunities to manage travel demand through additional priority treatments.</li> </ul>

### 3 Emerging Technology Impacts and Considerations

This section focuses on the changing transportation landscape due to emerging technologies and changing user preferences, and their impact on the Treasure Valley's transportation system. Conventional ITS continues to evolve into integrated tools for use by transportation professionals implementing TSMO.

Networked ITS, combined with advancements in CAV can provide additional reporting and situational data to improve safety and mobility in the Treasure Valley. In addition to CAV, the rise in transportation network companies (TNCs) such as Uber and Lyft and micromobility companies (e.g., bike and electric scooter share companies) have changed the transit landscape across the U.S. Reduced transit ridership, as a result of a more competitive transportation landscape, has required transit agencies to take a more agile approach, establishing innovative partnerships for first mile/last mile mobility needs, or integrating new technologies that will allow for more efficient service delivery.

Consumer preferences for e-commerce, delivered in ever-shortening timespans, are placing additional pressures on transportation systems and infrastructure (e.g., wear and tear on roads) and increasing congestion along major corridors and in urban centers. E-commerce pressures, combined with the Treasure Valley's growth, increase the importance of keeping the region's freight corridors and roads operating efficiently and in a state of good repair.

#### 3.1 Connected and Automated Vehicles

CAVs of varying capabilities are currently being tested by both the private and public sectors across the U.S (Figure 5). USDOT has funded three connected vehicle (CV) pilot projects in New York City, New York; Tampa, Florida; and the State of Wyoming to implement a suite of CV applications, each tailored to meet unique transportation needs.



Figure 5: Connected and Automated Vehicles

The CV pilot sites are all applying different types of CV technology. The New York City pilot aims to improve the safety of travelers and pedestrians through the deployment of Vehicle to Vehicle (V2V) and Vehicle to Infrastructure (V2I) technologies at signalized intersections and on a mixed fleet of cabs, commercial deliver trucks, and city vehicles. The Tampa pilot will similarly deploy V2V and V2I technologies in downtown Tampa on private vehicles, buses, and volunteer pedestrians. The Tampa pilot will test multiple V2V and V2I

applications address mobility, pedestrian and vehicle safety, and traffic monitoring. The Wyoming pilot will deploy V2V, V2I, and Infrastructure to Vehicle along I-80 and on Wyoming Department of Transportation's vehicles, snow plows, highway patrol, and commercial trucks. These are aimed at addressing safety, winter weather, situational awareness, work zone warning, and distress notifications.

In addition to USDOT funded activities for CVs, the private sector has been testing automated vehicles (AVs) across the U.S. (Figure 6). Ranging from low-speed shuttles to small to medium-sized vehicles, to trucks, multiple technology firms, TNCs, and vehicle manufacturers are testing AVs in mixed environments. State and federal regulations for testing and future deployment vary from state to state, and widespread deployment is not expected in the near-term. However, transportation agencies, first responders, and government agencies must prepare for the arrival of AVs on roads, operating in both the urban and rural settings, by incorporating flexible AV regulations in policy documents that have long time horizons.



Figure 6: Waymo Automated Vehicle

The Treasure Valley TSMO stakeholders understand the importance of these activities, from economic competitiveness, technological compatibility, and equity standpoints. AVs have multiple applications for surface transportation in the Treasure Valley and will need to operate safely in the existing built environment (e.g., roads and intersections and roadside equipment) over the long term. Specific CAV benefits include increasing efficiency and the safety of all transportation users, in addition to providing additional real-time reporting and performance data to TMCs.

In 2018, the State of Idaho established an Autonomous and Connected Vehicle Testing and Deployment Committee to deal with the technological, regulatory, and policy impacts of these emerging technologies at the state level. The committee provided a report to the Idaho governor with multiple recommendations, including encouraging legislation that allows for autonomous vehicle testing and deployment and encouraging transit agencies to incorporate autonomous vehicles into their future transit plans.

At the local level, it is recommended that transportation agencies continue to perform regular roadway maintenance activities (such as high visibility signage and striping) that benefit all users, including AVs, as well as continue to expand the regional communications backbone that enables connected vehicle safety applications. The region can also continue to stay abreast of technology advances and federal, state, and local regulatory activities through recurring CAV-related discussion topics at future ROWG meetings.

### 3.2 Mobility on Demand and Mobility-as-a-Service

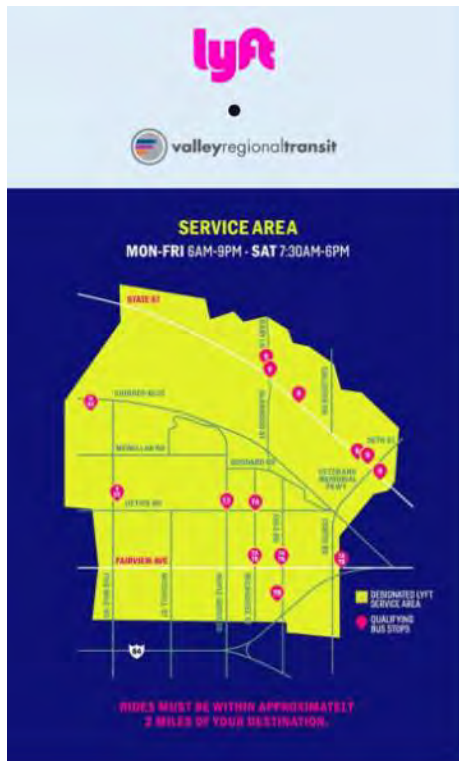


Figure 7: Lyft Transit Connections Service Area

TNCs, micromobility, and on-demand transit technologies have changed the mobility landscape across the U.S., providing additional user choice, flexibility, and connectivity. Building off this success, some transit agencies have forged partnerships with the TNCs and other micromobility companies to provide first and last mile connectivity, while others have integrated on-demand dispatching systems that increase the efficiency of transit service. These actions have spurred the development of new services for users and Mobility on Demand (MOD) and MaaS concepts. To meet the increased use of TNCs, the City of Boise is testing a new curbside pick-up and drop-off zone in downtown Boise. The new zone will provide a safe area for people to get in and get out of vehicles safely.

An example of the application of MOD for new and innovative approaches to transit in the Treasure Valley is VRT's multiple partnerships with Lyft, called Lyft Transit Connections and VRT Late Night.

Lyft Transit Connections allows users in Boise to use Lyft's ride-sharing services for \$2 to/from 14 ValleyRide bus stops. This unique solution provides multimodal first mile/last mile connectivity to ValleyRide's core bus network (Figure 7).

In addition to Lyft Transit Connections, VRT also has an agreement with Lyft to provide late night service in the cities of Nampa and Boise, when VRT buses aren't running, for qualified low-income residents. Called VRT Late Night, the participant is responsible for a \$3 fare and VRT pays up to \$20 for the cost of the ride. The participant is responsible for any amount above \$20 plus the original \$3 fare.

Beyond MOD and vehicle-based transportation options, bike and scooter share have arrived in the Treasure Valley. Both types of transportation can be considered MaaS, providing subscription and one-time use payments, and include providers such as Boise GreenBike, and Lime and Bird scooter share companies (Figure 8).



Figure 8: Boise Green Bike

Though MOD and MaaS address mobility needs, they can create additional pressures on the region's transportation system, such as congestion at population centers (e.g., airports, stadiums after sporting event, etc.) and increased wear and tear on infrastructure. Shared micromobility also presents safety concerns, as scooter riders and cyclists could get into crashes with vehicles, requiring additional awareness from drivers and new infrastructure to enhance safety of bicyclists and scooter riders. Currently additional infrastructure such as

protected bike lanes, sidewalks, pathways, and crossing beacons are being built and installed.

Going forward, COMPASS and its partners will continue to look for flexible approaches to harnessing the capabilities of TNCs to improve mobility for all. VRT also expects to continue partnering with TNCs, and integrating on-demand transit technologies where applicable, as a tool to provide equitable service, address changing user preferences, and benefit from technological changes.

### 3.3 Maintaining Freight Mobility

Over \$27.3 billion of commodities flow in and out of the Treasure Valley, and account for up to 29% of the region's total gross domestic product every year. As noted in CIM 2040 2.0 and COMPASS's 2018 freight study<sup>2</sup>, the safe and efficient transport of freight is vital for the region's continued economic growth and competitiveness. However, the rise of e-commerce and consumer preference for ever-shortening delivery windows have placed additional pressures on freight companies to adapt and compete in this new business environment, as well as placing new pressures on the transportation system.

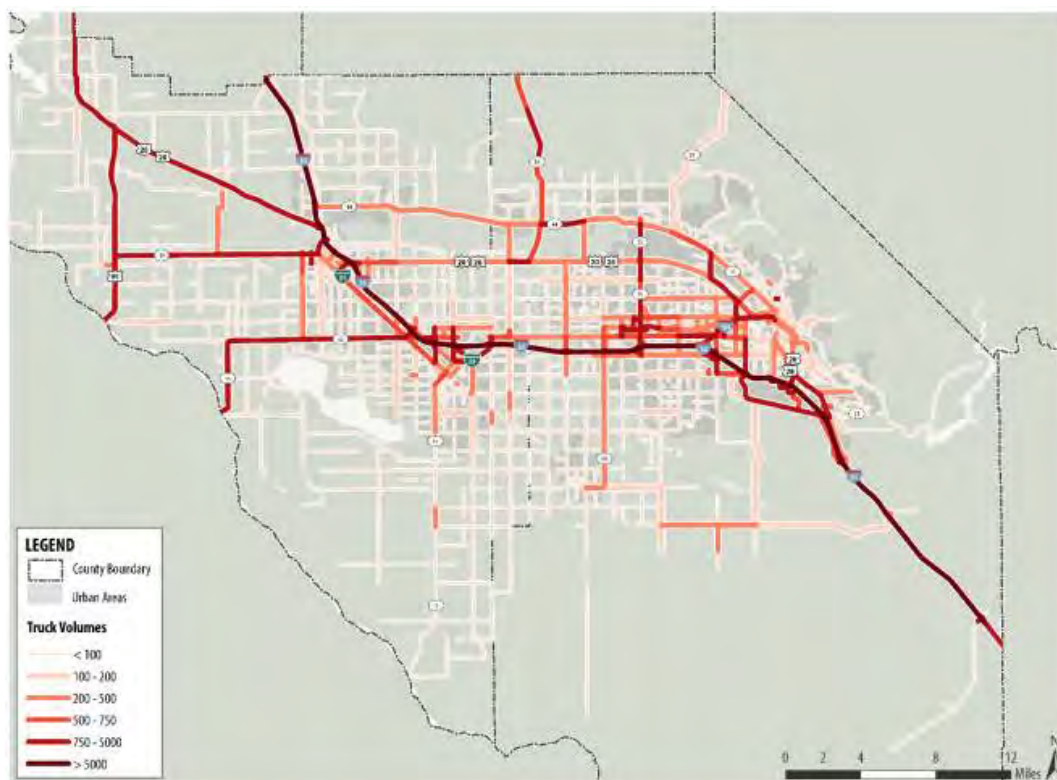


Figure 9: Truck Volumes in the Treasure Valley

Whereas freight companies previously used large trucks for deliveries to traditional brick and mortar stores from depots, deliveries are now being made directly to customers at residential and commercial addresses. Deliveries are increasingly being performed by contracted staff using personal vehicles or freight companies using additional smaller box trucks to fit in urban centers, resulting in an increase in the number of delivery vehicles on roads, additional congestion, and additional wear and tear on the region's infrastructure.

<sup>2</sup> COMPASS Freight Study  
[https://www.compassidahoh.com/documents/prodser/CIM2040\\_20/COMPASS%20Freight%20Study%20Final%20Report\\_June%202018.pdf](https://www.compassidahoh.com/documents/prodser/CIM2040_20/COMPASS%20Freight%20Study%20Final%20Report_June%202018.pdf)

To address increasing freight and delivery congestion, COMPASS and its stakeholder agencies have invested in multiple studies to identify freight corridors and bottlenecks (Figure 9), solicited industry input via a Freight Advisory Workgroup, and prioritized capital projects that address congestion mitigation and increased wear and tear. In addition to studies and capital improvement projects, agencies have implemented enhanced signal timing and traffic management capabilities. A potential future virtualized regional TMC would further enhance the region's ability to monitor and manage developing congestion issues, including freight congestion.

## 4 Regional TSMO Toolkit

The TSMO Toolkit identifies strategies that the region will employ to actively manage the multi-modal regional transportation system. Toolkit strategies are enabled by ITS technologies, but staffing, policies, plans, training, and other factors are equally important to successfully implementing the toolkit in the Treasure Valley.

Toolkit strategies are often applicable at the individual agency and the regional level, with maximum benefit realized when agencies collaborate to seamlessly address operational needs and challenges.

Many of the TSMO strategies initially identified for the region have already been implemented through various projects and initiatives. Therefore, it is important to further refine the TSMO strategies from the previous plan and carry forward strategies that meet the region's changing transportation needs.

The TSMO Toolkit strategies are reflected in agency and regional implementation plans and projects. The toolkit incorporates feedback received from agencies and stakeholders, and consideration of technological, economic, and demographic changes in the region. Several of the toolkit strategies are mainstays of regional operations programs, and have been integrated into agency day-to-day policies and operations.

The toolkit strategies are grouped into thematic categories as follows:

- **Regional Transportation Operations, Coordination, and Management:** Establishes planning efforts and communication to encourage regional cooperation and coordination. The foundation for effective planning for operations, this group of strategies involves multiple stakeholders across the transportation system, including transportation agencies, infrastructure owners and operators, and emergency and incident response teams working to implement regional system management programs. The goal of these strategies is to create a more "seamless" transportation system across jurisdictional boundaries.
- **Freeway Management:** Requires multi-jurisdictional coordination and uses operations, management, and performance tools to proactively manage freeways to improve safety, efficiency and reliability.
- **Arterial Management:** Uses advances in operations, management, and performance tools applied to arterial corridors to ensure traveler safety, efficiency and reliability. This group of strategies requires coordination across jurisdictional boundaries where the corridor is located.
- **Incident and Emergency Management:** Aims to efficiently coordinate response to, and recovery from, traffic incidents and emergencies.

- **Traveler Information:** Harnesses the widespread availability and dissemination of traveler information through DMS, agency websites, and mobile applications to provide travelers with personalized information to support informed travel choices.
- **Public Transportation Management:** Uses technologies such as Computer-Aided Dispatch/Automatic Vehicle Location, real-time passenger information, and transit signal priority to improve transit operational performance and enhance passenger convenience.
- **Road Weather Operations:** Uses sensing technologies and other tools deployed to accurately monitor, predict, and inform travelers and operators of roadway weather conditions with a goal of mitigating weather-related impacts on the transportation system.
- **Maintenance and Construction:** Involves multi-jurisdictional cooperation to ensure the coordination and planning of construction and maintenance responsibilities and activities.
- **Emerging Technologies Readiness:** Contains strategies to prepare for the expected emergence of CAV in the coming decades.

#### 4.1 TSMO Toolkit Strategies

TSMO Toolkit strategies have been tailored in response to the needs expressed by stakeholder agencies, as well as the perceived capabilities to make meaningful progress towards implementation within the 10-year horizon of the TSMO plan. This reflects financial considerations as well agency priorities, technology maturity, and other factors.

The applicability of TSMO Toolkit strategies to individual agencies and the region was vetted through individual agency consultations as well as review by the ROWG.

Table 4, below, provides a brief description of each of the strategies included in the TSMO Toolkit, organized by category. For each strategy listed, a brief description is provided, which details how the strategy can be implemented, associated ITS infrastructure, and benefits of implementation.

Table 4: Descriptions of TSMO Strategies

Category	Strategy	Description and Associated Benefits
<b>Regional Transportation Operations, Coordination, and Management</b>	Traffic and CCTV Monitoring	Uses video and detection equipment (e.g., detectors, vehicle/cell phone probe) to monitor traffic and congestion across the transportation network. Improves operations, incident detection, response, and verification times, while providing real-time and historic operation data. Supports the dissemination of real-traveler information.
	Transportation Demand Management	Develops response plans to traffic operations based on current and forecasted network performance. Coordinates transit, parking, tolling, and ramp metering management. Reduces network congestion on arterials and freeways, increases parking availability, and improves alternative mode choice.



Category	Strategy	Description and Associated Benefits
	Multi-Agency Operations, Coordination, and Planning	Involves the creation of multi-jurisdictional committees to identify regional needs, promote resource sharing, plan, invest, and evaluate coordinated ITS and foster interagency cooperation.
<b>Freeway Management</b>	Ramp Metering	Meters traffic flow rates at freeway on-ramps adjacent to freeway sections and recurrent congestion. Reduces mainline travel delays, increases travel time reliability during peak periods, and increases freeway speed and carrying capacity by up to 10%.
	Active Traffic Management	Manages congested corridors based on prevailing and predicted traffic conditions. Uses advances in adaptive transportation infrastructure such as ramp meters and traffic signals to increase throughput during congested periods.
<b>Arterial Management</b>	Enhanced Traffic Signal Operations	Improves existing traffic signal operations through detection of vehicles, re-timing, optimization, and implementation of traffic signal performance measures. Reduces travel times by 10-25% and increases safety, throughput, and reliability for all users.
	Pedestrian and Bicycle Operations Safety	Manages the detection and warning systems that interact with pedestrians, cyclists, or other mixed road users. Improves safety for all road users and promotes active transportation.
<b>Incident and Emergency Management</b>	Regional Incident and Emergency Management	Uses and refines current incident response programs to support quick, safe, and coordinated response, and support first-responder safety. Improves emergency and incident response, duration, clearance times, and secondary crashes by 25-70%.
	Emergency Vehicle Routing and Signal Preemption	Allows emergency vehicles to pre-empt traffic signals. Improves emergency vehicle reliability and response times.
	Regional Alert System	Leverages current and future traveler information and dissemination systems to alert the public of emergency situations by effectively providing advanced warning to travelers.
<b>Traveler Information</b>	Roadside Traveler Information Management	Uses DMS and HAR to provide travelers with information to make informed choices. Can improve travel time reliability and reduce delays.
	Regional Traveler Information	Provides static and real-time traveler information regarding incidents, roadway construction, transit routes, and departure/arrival times from all regional agencies to one central system which disseminates information to third-parties (i.e., websites, navigation applications, or mobile alerts). Can reduce delays by up to 20%, increase traveler satisfaction, and increase the use of alternate modes.

Category	Strategy	Description and Associated Benefits
	Trip Planning and Routing Website	Trip planning and routing tools enable travelers to make informed travel decisions both pre-trip and en-route. Increases the attractiveness of transit and enhances passenger convenience.
<b>Public Transportation Management</b>	Advanced Transit Operations Management	Uses computer aided dispatch, automatic vehicle location, and automatic passenger counting technologies to enhance transit operations, better understand current operations, and make real-time adjustments to improve transit service, reliability and efficiency, and user experience.
	Regional Transit Fare Integration	Uses integrated fare media to collect transit fare payments across multiple jurisdictional boundaries. Enhances passenger convenience and improves money-handling efficiencies.
	Multimodal Travel Coordination	Improves connections between transit and other modes of transportation to reduce delays and missed connections. Makes transit a more attractive choice and improves transit user experience.
	Real-time Transit Information	Provides real-time transit and arrival information by using a variety of means, such as wayside signs, in-vehicle systems, and interactive mobile device applications. Reduces passenger wait times at stops and increases passenger convenience.
	Transit Signal Priority	Uses existing technology to allow transit vehicles to receive extra green time at signalized intersections. Improves transit time reliability, passenger throughput, and on time performance.
	Transit Traveler Information through Third-Party Services	Harnesses the internet to provide users with detailed information on transit schedules, route and map information, trip planning, and real-time arrivals and departures. Allows transit users to view this information in third party applications such as Google Maps™ or Apple Maps™.
	Mobility-as-a-Service and First Mile/Last Mile Connections	Packages all transportation costs and trip planning functions together into a single integrated service. Uses transportation network and micromobility companies or other shared mobility providers to offer enhanced connectivity in communities and improves first mile/last mile connections. Can reduce the use of single occupancy vehicles, promote active transportation, and provide greater accessibility for those with disabilities or low incomes.
	<b>Road Weather</b>	Weather Information Processing and Distribution
Weather Data Collection		Uses RWIS deployed in the field to collect data from Environmental Sensor Stations. Improves weather and

Category	Strategy	Description and Associated Benefits
		roadway condition predictions and their impacts on the transportation system.
	Weather Adaptive Traffic Management	Establishes coordinated action plans during adverse weather events. Manages traffic speed and flow in real-time through DMS and other systems. Average vehicle speed is reduced by up to 5 mph during adverse weather, lowering the occurrence of crashes by up to 15%.
	Winter Roadway Maintenance	Uses multi-jurisdictional agreements to ensure timely and effective winter roadway maintenance (e.g., snow plow, road salting, etc.) during adverse weather conditions.
<b>Maintenance and Construction</b>	Maintenance and Construction Management	Establishes coordinated plans and best practices for scheduled and unscheduled roadway maintenance. Improves worker and traveler safety during maintenance and construction activities and reduces delays on associated corridors.
	Maintenance and Construction Activity Coordination	Disseminates maintenance and construction activities to the TMC, which then forwards this information to interested parties and travelers. Reduces maintenance and construction-related disruptions and allows the TMC to make adjustments to location, speed, and traffic flow and ultimately provide this information to travelers.
	Work Zone Management	Uses variable speed limits and traveler information to increase awareness and safety of work zones. Reduces travel speed in work zones, improves safety, and increases travel time reliability.
<b>Emerging Technologies</b>	Connected and Automated Vehicle Readiness	Uses federal guidance on CAVs for future deployments and compatibility with current and future ITS infrastructure and the built environment. Ensures ITS (where applicable) can send and receive data from CAVs, including situational, traffic management, and incident management data. As recommended in the <i>2018 Autonomous and Connected Vehicle Testing and Deployment Committee Report</i> , VRT is working with state and local stakeholders to pilot autonomous vehicle technology and incorporate into transit plans.
	Electric Vehicle Readiness	VRT is acquiring electric buses to replace aging diesel and compressed natural gas buses for fixed route service. With the arrival of electric buses comes the need to plan for supporting charging infrastructure.

Implementation and use of the TSMO categories and strategies is expected to vary by stakeholder depending upon responsibilities in the Treasure Valley’s transportation system. Using information derived from stakeholder interviews, the completed and planned project list, and input received from multiple ROWG meetings, the consultant team determined each strategy’s application to each stakeholder and vice-versa. Table 5, below, displays this relationship and is intended to be updated as stakeholder responsibilities or TSMO strategies change over the life of this TSMO plan.

Table 5: TSMO Strategies by Stakeholder

		Traffic and CCTV Monitoring	Transportation Demand Management	Multi-Agency Operations Coordination and Planning	Ramp Metering	Active Traffic Management	Enhanced Traffic Signal Operations	Pedestrian and Bicycle Operations Safety	Regional Incident and Emergency Management	Emergency Vehicle Routing and Signal Preemption	Regional Alert System	Roadside Traveler Information Management	Regional Traveler Information	Trip Planning and Routing Website	Advanced Transit Operations Management	Regional Transit Fare Integration	Multimodal Travel Coordination	Real-time Transit Information	Transit Signal Priority	Transit Traveler Information through Third-Party Services	Mobility-as-a-Service and First Mile/Last Mile Connections	Weather Information Processing and Distribution	Weather Data Collection	Weather Adaptive Traffic Management	Winter Roadway Maintenance	Maintenance & Construction Management	Maintenance & Construction Activity Coordination	Work Zone Management	Connected & Automated Vehicle Readiness	Electric Vehicle Charging		
		Regional Transportation Operations, Coordination and Management			Freeway Management		Arterial Management		Incident & Emergency Management			Traveler Information			Public Transportation Management						Road Weather			Maintenance & Construction		Emerging Technologies						
Transportation Agencies	ITD District 3	•	•	•	•	•	•	•	•	•	•	•	•	•								•			•	•	•	•	•	•		
	ITD Headquarters	•		•					•		•	•	•	•								•	•		•	•	•	•	•	•	•	
	ACHD	•	•	•		•	•	•	•	•		•	•	•								•			•	•	•	•	•	•	•	
	City Of Caldwell	•		•			•	•	•	•			•												•	•	•	•	•	•	•	
	City Of Nampa	•		•			•	•	•	•			•												•	•	•	•	•	•	•	
Emergency Response	Idaho EMS (Statecomm)	•		•				•	•	•	•	•	•	•								•	•			•	•					
	Idaho State Police	•		•				•	•	•																						
	Ada County Sheriff			•				•	•	•																						
	Canyon County Sheriff			•				•	•	•																						
	Nampa Public Safety			•				•	•	•																						
Other Emergency Management Agencies	•		•					•	•	•																						
Public Transportation	Valley Regional Transit			•				•					•	•	•	•	•	•	•	•	•					•		•	•	•	•	
	Treasure Valley Transit			•				•					•	•	•					•						•		•				

## 5 Putting the Pieces Together: The Regional ITS Architecture

### 5.1 Introduction to the ITS Architecture

The Regional ITS Architecture has existed in the region for a number of years and serves as a resource for inventorying and tracking existing and planned projects. It illustrates how the ITS infrastructure communicates and interconnects with different stakeholders and the built environment to provide a reference for local agencies to support transportation technology deployments. The architecture also identifies needs and high-level concepts for future projects. FHWA also requires that agencies can demonstrate compliance with the ITS architecture for federally funded projects. FHWA provides a detailed description of the ITS architecture and how to use it in the [Regional ITS Architecture Guidance Document](#).<sup>3</sup>

Since the last Treasure Valley Regional ITS Architecture update in 2014, the National ITS Architecture has changed significantly. For instance, the connected and autonomous vehicle service packages have been combined with Turbo Architecture services into the Architecture Reference for Cooperative and Intelligent Transportation (ARC-IT). ARC-IT combined overlapping services between the two architectures and new service packages. Within ARC-IT, regional agencies can use two software packages for ITS architecture updates or systems engineering. ITS architectures can be updated using the RAD-IT software. The Systems Engineering Tool for Intelligent Transportation (SET-IT) software can be used for systems engineering activities to support development of specific projects.

The architecture is stored electronically as a database file that can be opened with the free RAD-IT software. RAD-IT helps the user identify service packages (ITS services the region intends to provide) that apply to various ITS applications as shown in Figure 10.



Figure 10: Service Package Groups by Function Area

<sup>3</sup> Regional ITS Architecture Guidance Document: <https://ops.fhwa.dot.gov/publications/regitsarchguide/index.htm>

The service package categories listed above contain from two to 23 subcategories that include more detailed descriptions of individual services. For example, Transit Signal Priority is a service package within the Public Transportation group. Service packages along with descriptions can be found on the [National ITS Reference Architecture website](#).<sup>4</sup> Appendix A includes a list of existing and planned service packages for the regional architecture.

In addition to service packages, there are various other data elements that must be entered and customized to create the Regional ITS Architecture, including:

- **Stakeholders:** Description of each key stakeholders in the region. Stakeholders may also be clustered into groups.
- **Inventory elements:** All ITS inventory in the region, with each inventory element mapped to a responsible stakeholder and a correlating ITS architecture subsystem or terminator.
- **Interconnects/Information flows:** Detailed description of Interconnects and information flows between devices and stakeholder.
- **Standards:** Potentially-relevant ITS standards.

Figure 11 illustrates the Treasure Valley physical architecture diagram.

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<sup>4</sup> National ITS Reference Architecture: <https://local.iteris.com/arc-it/html/servicepackages/servicepackages-areaspsort.html>

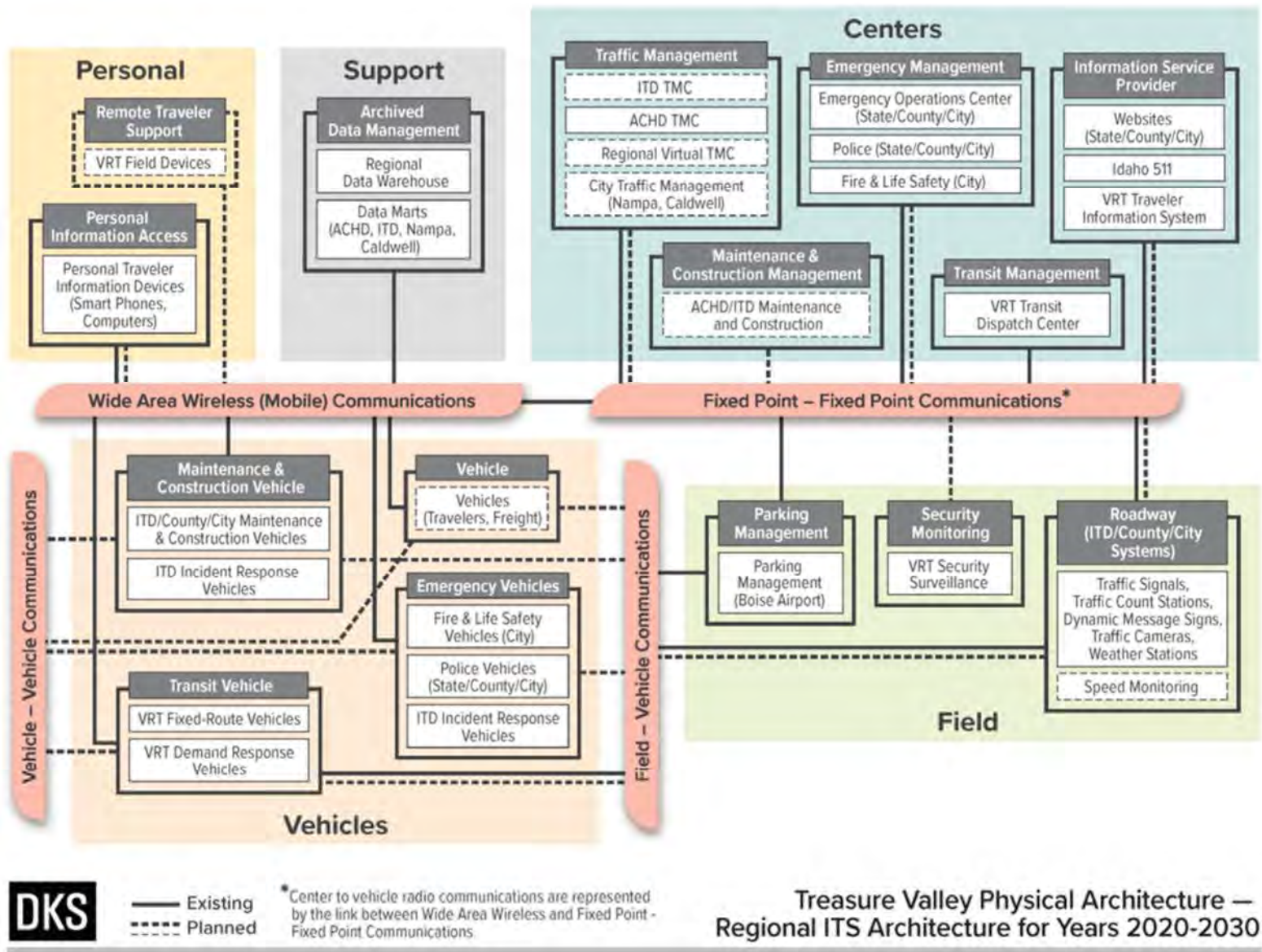


Figure 11: Treasure Valley Physical Architecture

For the 2019 update, the stakeholders, system inventory, service packages, information flows, and standards were all reviewed and evaluated for currency. The updated information was gathered through the stakeholder needs assessment process.

## Stakeholders

The stakeholders in the region have remained consistent overall; Nampa Highway District #1 (NHD) was the only new stakeholder identified. NHD develops roadway projects in the area around the City of Nampa. Typically, NHD completes the construction of projects and turns ownership over to the City of Nampa if it is near the city limits. Appendix B lists all new and existing stakeholders.

## Inventory Elements

This update to the ITS architecture includes several new inventory elements:

- Caldwell Traffic Management Center: Introduces the City of Caldwell as an emerging traffic management center.
- Nampa Highway District #1 Field Equipment: Recognizes the increasing implementation of ITS in the City of Nampa.
- Nampa Traffic Management Center – Emergency Operations Center (TMC-EOC): Represents the City of Nampa’s plans to fully build out the TMC-EOC in the near term.
- Regional Virtual Traffic Management Center: A concept to virtualize shared TMC operations among partnering agencies in the region to increase cooperation and communication during incidents and events.

Appendix C lists all existing and new inventory elements.

## Service Packages

Several new service packages are included in the ITS architecture update. These services fulfill planned project needs and involve emerging technologies that should have benefits for regional transportation. The new services include:

- CVO06 – Freight Signal Priority
- DM02 – Performance Monitoring
- MC09 – Infrastructure Monitoring
- PS06 – Incident Scene Pre-Arrival Staging Guidance for Emergency Responders
- PS07 – Incident Scene Safety Monitoring
- PT11 – Transit Pedestrian Indication
- PT12 – Transit Vehicle at Station/Stop Warnings
- PT18 – Integrated Multi-Modal Electronic Payment
- SU01 – Connected Vehicle System Monitoring and Management
- SU07 – ITS Communications
- SU11 – Field Equipment Maintenance
- SU12 – Vehicle Maintenance



- TI03 – Dynamic Route Guidance
- TM04 – Connected Vehicle Traffic Signal System

The addition of service packages illustrates how the region is growing and maturing in the types of ITS projects under consideration, including areas that have more traditional safety and maintenance systems with newer technologies such as connected vehicle systems.

### Planned Projects

Information on planned ITS projects was provided by the key stakeholders, including ITD, COMPASS, local highway districts, cities, transit agencies, and emergency responders/police departments. Within the regional architecture, project groupings can be used to classify similar regional projects. The proposed projects resulted in changes to existing groups, as well as the creation of new regional groupings. These new project groupings include:

- ACHD Maintenance and Construction Data Center
- Asset Management
- Automated Traffic Signal Performance Measures
- Caldwell Traffic Management Center
- Connected and Autonomous Vehicle Deployments
- Integrated Active Corridor Management
- Nampa TMC – EOC
- TSP Expansion
- VRT Fare Payment and Mobility on Demand
- Wireless Expansion

## 5.2 Applying the Architecture: City of Nampa Example

Within the Regional ITS Architecture, each identified project includes the stakeholders, inventory elements, services, and functions that are needed. An example is the new Nampa TMC-EOC.

To incorporate the Nampa TMC-EOC into the architecture, first the stakeholders are defined. In this case, the stakeholders include the City of Nampa, ITD District 3, ACHD, and regional emergency management. Once the stakeholders are identified, applicable inventory elements that are associated with each stakeholder are identified. In this case, the Nampa TMC-EOC will make use of Nampa and ACHD field equipment and police vehicles/equipment. Key traffic management services that the center will perform are then selected, which include:

- TM01 – Infrastructure-Based Traffic Monitoring
- TM03 – Traffic Signal Control
- TM06 – Traffic Information Dissemination
- PS02 – Emergency Response

Finally, functions are selected from a detailed list of potential system capabilities. The functions are important because they include the type of data that each inventory element will communicate. This customization of the architecture then guides the types of information that various stakeholders will exchange with each other's systems.

Once the functions are completed, RAD-IT can generate diagrams to show how the information flows between inventory elements. Figure 12, below, shows an example of the data interconnect in the Nampa TMC-EOC. Figure 13 shows a sample data flow diagram from RAD-IT.

This diagram is simplified for clarity and only includes data flows shared between ITD field equipment and the Nampa TMC-EOC.

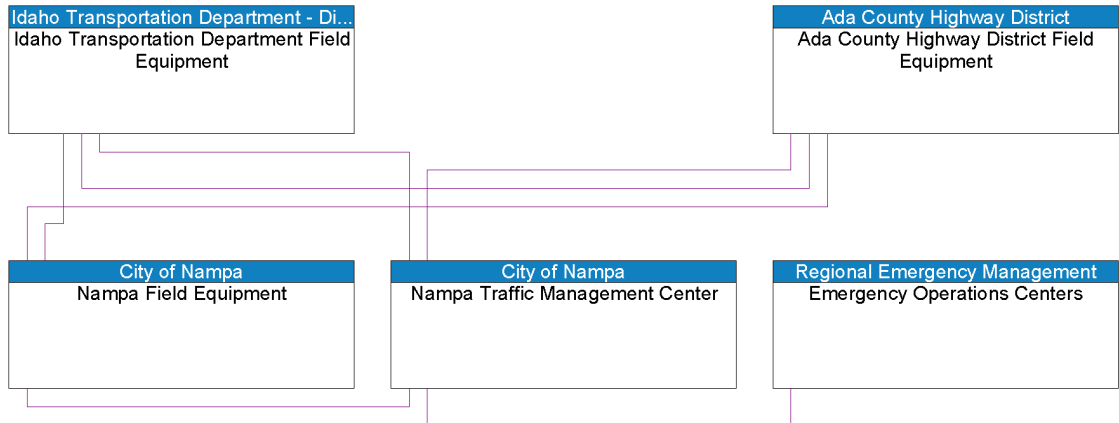


Figure 12: Nampa TMC-EOC Data Interconnects

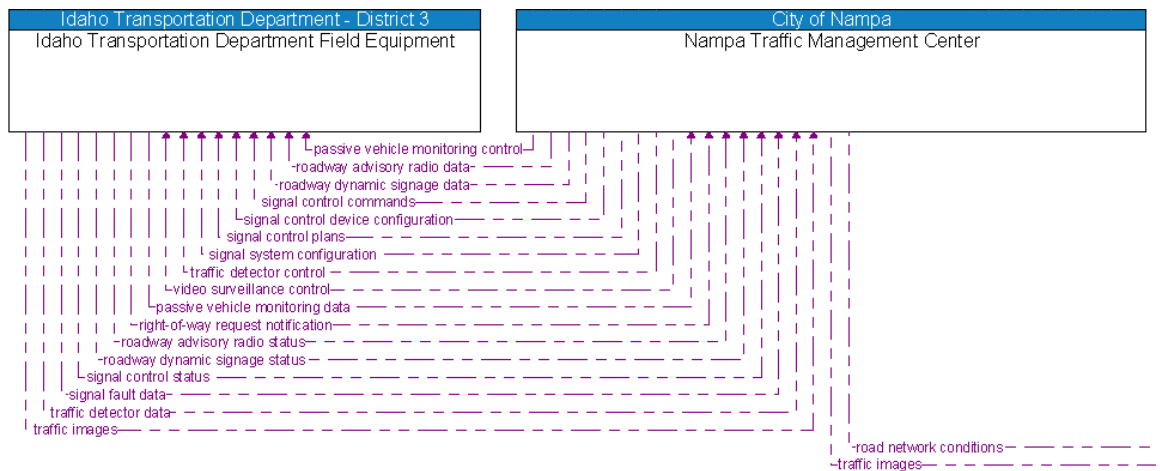


Figure 13: Nampa TMC-EOC Example Data Flow Diagram

These diagrams can be generated as needed to provide agencies with documentation for FHWA funding requests and project development activities.

## 5.3 ITS Architecture Maintenance

The ITS Architecture should be a living document that is updated as things change. Common reasons the Treasure Valley Regional ITS Architecture will need updating include:

- A stakeholder identifies a new strategy/ITS service that could be implemented to meet a need
- A stakeholder needs to show a project architecture as part of a project being implemented
- FHWA updates the National ITS Architecture with new service packages or information flows that should be included in the Treasure Valley
- The region implements a new inventory element not previously identified

The following describes responsibilities for updating the architecture:

- **Who?** COMPASS will be the keeper and maintainer of the architecture. COMPASS will coordinate with state and local agencies to gather information on new projects and/or other updates that are needed.
- **When?** Once per year. This annual update will coincide with the yearly GIS-based ITS inventory update.

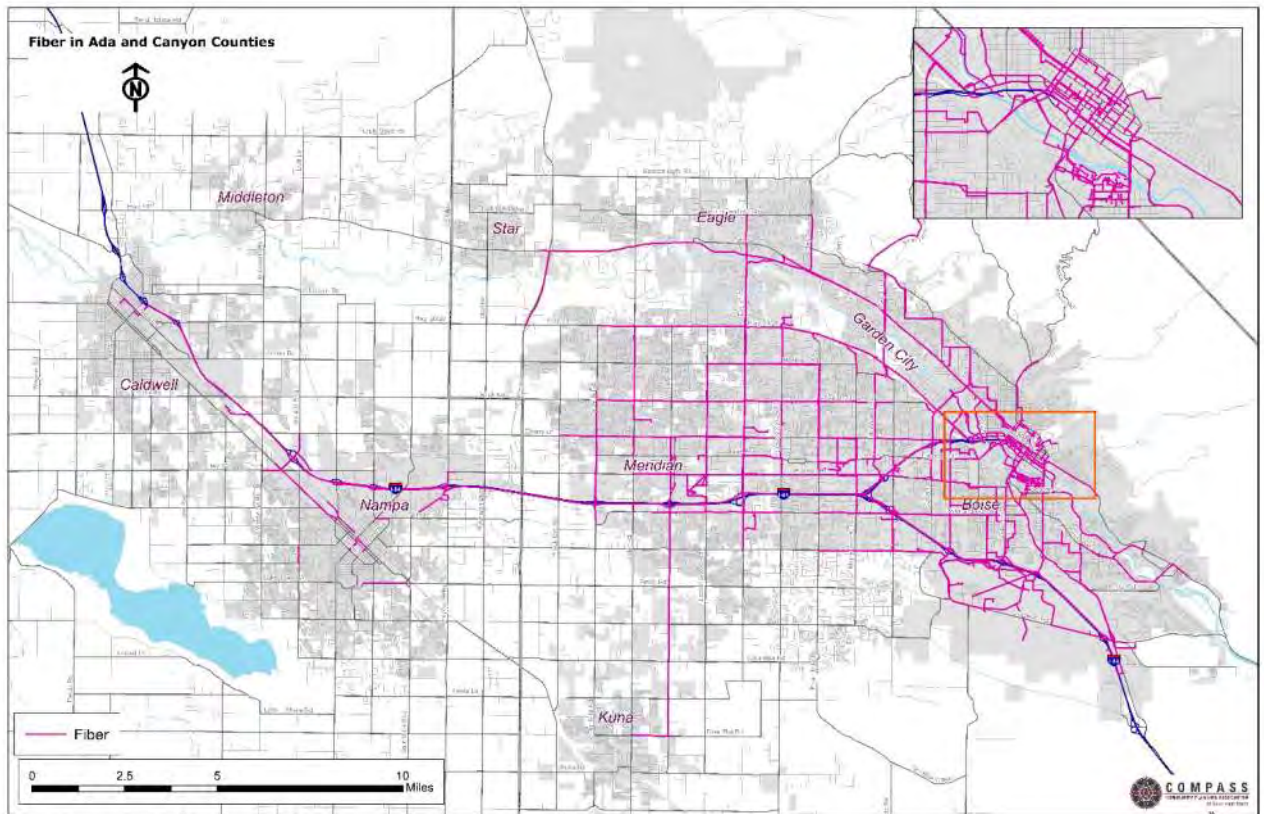
## 6 Communications Priorities

Communications infrastructure plays an important role in transportation management, as it provides connectivity to field ITS devices, such as traffic signals, CCTV cameras, and DMS signs. Since 2012, the region's ITS centrally-connected devices and related traffic monitoring and management capabilities have developed substantially.

Harnessing connected ITS has also given transportation agency personnel additional vital tools for determining traffic bottlenecks, responding to and managing incidents, and providing situational data and camera feeds to emergency responders and peer agencies.

Communications infrastructure, specifically the Treasure Valley's fiber network, has developed substantially over the last five years. Over 545 miles of publicly- and privately-owned fiber provides connectivity to ACHD, ITD, and Cities of Boise, Caldwell and Nampa, resulting in a robust and reliable communications network across the region that can be seen in Figure 14.

Figure 14: Regional Fiber Infrastructure



Previous communications plans have highlighted the Treasure Valley's planned communications network buildout and noted network capacity, infrastructure, and redundancy needs. Using feedback received from stakeholders at the ROWG and one-on-one meetings, as well as the completed and planned project list, the following objectives have been identified for the region's communications assets:

- **Maintain and expand the region's fiber network.** Transportation and emergency management agencies continue their commitment to the region's fiber communications

network. ACHD, ITD, City of Caldwell, and City of Nampa are planning to invest over **\$5.6 million** in projects to maintain and further expand the region's fiber network. The fiber network will be resilient and reliable via the use of redundant loop communications and have network speeds up to 10 gigabits. The improved fiber network will allow for the deployment of additional ITS devices used to monitor traffic conditions, respond to incidents, and improve inter-agency collaboration across the region. For example, the plans currently under development to build a TMC in the City of Nampa note that an extensive expansion of the fiber optic network is necessary to be successful.

- **Prepare for the strategic, incremental expansion of the fiber network.** The agencies intend to further enable future communications infrastructure by installing conduit during new construction or maintenance activities (when applicable). Installing conduit at new builds and during maintenance activities reduces the costs of adding conduit and fiber later, allowing for the incremental expansion of the region's ITS and communications infrastructure network. The City of Boise has recently installed new fiber conduit along Cloverdale Road from W Franklin Road to the south side of I-84.
- **Continue event and incident data sharing and expand camera sharing capabilities.** The Ada County TMC provides event and incident data and video to first responders on an as-needed basis, while the TMC is staffed. Multiple stakeholders expressed that the data and camera feeds provided are extremely valuable but are limited to when the TMC is open. In the future, ACHD intends to provide camera feeds and incident data during hours when the TMC is closed, possibly through control-sharing agreements. Expanding data and camera sharing capabilities will increase interagency collaboration, and further increase the value of investments made in the fiber network and ITS.
- **Increase regional traffic monitoring and incident and emergency management collaboration via a future virtual regional TMC.** As multiple agencies own, operate, and maintain separate ITS devices and fiber in the Treasure Valley, interagency collaboration can be challenging. Previously, agencies expressed interest in establishing a co-located brick-and-mortar multiagency regional TMC. However, advancements in communications and cloud-based systems have enabled the potential of a "virtual" regional TMC for the City of Nampa, City of Caldwell, ACHD, and ITD. The virtual TMC would allow for the sharing of ITS resources, integration of central and field systems, and shared CCTV control and monitoring, all via workstations at the individual agency offices.

These objectives highlight the need to maintain and expand the region's fiber network and communications capabilities. While prior plans have considered fiber-sharing agreements between emergency management and traffic management agencies, the general experience has been that agencies have been able to deploy the necessary linkages on their own. The agencies will continue to build out strategically as needed to provide communications in areas of high growth, as identified in the TSMO Implementation Plan project list in Appendix D.

## 7 Measuring and Managing Performance

A widespread push for public agencies to increase their transparency through performance reporting, coupled with the availability of new data and data analytics tools, have helped transportation agencies to more effectively assess the impacts of TSMO strategies, identify needs and system performance deficiencies, and better manage the transportation system.

The region’s MPO, COMPASS, gathers data and performance measures for regional and federal reporting performance requirements. In the 2012 TSMO plan, potential data sources and performance measures were proposed, but due to limited resources, were not fully implemented. However, in 2017, FHWA finalized the rulemaking process for performance measures related to the national highway system, infrastructure condition, and congestion mitigation as mandated by MAP-21 and the FAST Act. Conformance with these performance measures could impact where ITD spends federal funds. For example, if the safety targets are not met, FHWA may require ITD to allocate more federal funds to safety projects.

In December 2018, the COMPASS Board of Directors adopted CIM 2040 2.0, which assisted in establishing a framework to quantify and normalize the values of different types of regional investments across eight elements: **transportation, land use, housing, economic development, open space, health, farmland, and community infrastructure**. Performance measures are assigned to each element. The assessment of performance measures for the transportation element assists COMPASS in quantitatively evaluating the ability of current and future projects to meet the changing needs of the region, and also supports more objective and transparent decision-making.

TSMO and the strategies proposed are part of the Treasure Valley’s transportation system and fall under the purview of multiple agencies and stakeholder initiatives. The performance measures identified in CIM 2040 2.0 are a natural fit, as they are already being measured by COMPASS for regional and federal reporting purposes. COMPASS develops a biennial performance monitoring report (called “[Change in Motion](#)”) which highlights prior, current, and trajectory performance measures. The report is available on the COMPASS website.

Table 6: COMPASS Regional Performance Measures for TSMO, shows a subset of transportation metrics that have been identified as the priorities most closely related to TSMO and ITS.

Table 6: COMPASS Regional Performance Measures for TSMO

CIM 2040 2.0 Metric Category	Metric Detail
Safety	Motor Vehicle Safety: <ul style="list-style-type: none"> <li>• Number of Motor Vehicle Fatalities</li> <li>• Number of Motor Vehicle Serious Injuries</li> <li>• Rate of Motor Vehicle Fatalities</li> <li>• Rate of Motor Vehicle Serious Injuries</li> </ul> Non-motorized Safety (Bike and Pedestrian Crashes): <ul style="list-style-type: none"> <li>• Number of Non-Motorized Fatalities and Non-Motorized Serious Injuries</li> </ul>

<p>Pavement and Bridge Conditions</p>	<p>Pavement Conditions:</p> <ul style="list-style-type: none"> <li>• Percentage of Interstate Pavement in “Good” condition</li> <li>• Percentage of Interstate Pavement in “Poor” condition</li> <li>• Percentage of Non-Interstate National Highway System Pavement in “Good” condition</li> <li>• Percentage of Non-Interstate National Highway System Pavement in “Poor” condition</li> </ul> <p>Bridge Conditions:</p> <ul style="list-style-type: none"> <li>• Percentage of Bridges in “Good” Condition</li> <li>• Percentage of Bridges in “Poor” Condition</li> </ul>
<p>System Performance (Motor Vehicle and Freight)</p>	<p>System Reliability:</p> <ul style="list-style-type: none"> <li>• Interstate Travel Time Reliability</li> <li>• National Highway System Travel Time Reliability</li> <li>• Truck Travel Time Reliability Interstate Index</li> <li>• Congestion Mitigation Air Quality Emissions</li> </ul>
<p>Active Transportation</p>	<p>Multimodal Use:</p> <ul style="list-style-type: none"> <li>• Bicycle Volumes</li> <li>• Pedestrian Volumes</li> <li>• Miles of Bikeways</li> </ul>
<p>Public Transportation</p>	<p>Transit Use:</p> <ul style="list-style-type: none"> <li>• Transit Passenger Ridership</li> <li>• Number of Vanpools</li> <li>• Non-Single-Occupancy Vehicle Mode Share</li> <li>• On-Time Performance</li> </ul> <p>Transit State of Good Repair:</p> <ul style="list-style-type: none"> <li>• Rolling Stock</li> <li>• Facilities</li> <li>• Infrastructure</li> </ul>

## 8 Implementing the Plan and Achieving the Vision

This section provides a discussion of strategies to achieve the vision for TSMO in the Treasure Valley over the next ten years. Additionally, this section offers suggestions for near-term activities that can be undertaken by agencies (individually and through regional partnerships) to sustain the momentum of plan development and achieve success.

### 8.1 About the TSMO Implementation Plan

The TSMO Implementation Plan, as developed during the creation of the TSMO Strategic Plan, contains 131 projects identified by multi-modal transportation and emergency management agencies across the region, as shown in Table 7. The complete list of implementation plan projects is provided in Appendix D.

The TSMO Implementation Plan, as developed during the creation of the TSMO Strategic Plan, contains 131 projects identified by multi-modal transportation and emergency management agencies across the region, as shown in Table 7. The complete list of implementation plan projects is provided in Appendix D.

Each category in the TSMO Toolkit is covered in the Implementation Plan, with most projects (50) in the Arterial Management category; Public Transportation (21 projects) and Regional Transportation Management (17 projects) have the second and third most, respectively.

Projects are identified as near-term, medium-term, and long-term, and include specific years for projects that are programmed. The total capital cost estimate for projects identified as near-term is approximately \$22.4 million. Costs by stakeholder are provided in Table 8.

COMPASS will assume responsibility for maintaining and updating the implementation plan project list. The list was developed in electronic format for ease of regular revisions as progress is made towards implementation, and/or agency needs and priorities change. A multi-agency review of the project list is anticipated approximately once annually following plan completion.

### 8.2 Implementing the TSMO Priority Projects

During the development of the TSMO Strategic Plan, participating agencies identified priority projects to be undertaken in the next one to three years. This list, shown in Table 9, provides a set of focused objectives for TSMO implementation following completion of the plan.

Table 7: Projects by Stakeholder

Stakeholder	Projects
ACHD	33
City of Caldwell	11
City of Nampa	15
COMPASS	4
ITD Headquarters	15
ITD District 3	29
VRT	20
Other	4

Table 8: Costs by Stakeholder

Stakeholder	Estimated Cost
ACHD	\$5.5M
City of Caldwell	\$1.3M
City of Nampa	\$6.2M
COMPASS	\$0.5M
ITD Headquarters	\$4.1M
ITD District 3	\$2.5M
VRT	\$1.1M
Other	\$0.7M



While not all of the projects are fully funded and ready for deployment, there are immediate actions that can be undertaken for each to maintain momentum and make progress toward the self-identified top objectives in the implementation plan.

Table 9: Self-Identified Priority TSMO Projects by Agency (2019)

Agency	TSMO Implementation Plan Priorities
<b>ITD Headquarters</b>	<ul style="list-style-type: none"> <li>• Upgrade StateComm central systems</li> <li>• Implement incident traffic management in the Treasure Valley</li> <li>• Replace ITS control software</li> <li>• Integrate 511 with other agencies and programs</li> <li>• Decommission HAR systems</li> </ul>
<b>ITD District 3</b>	<ul style="list-style-type: none"> <li>• Implement Eagle Road traffic signal performance measures</li> <li>• Develop regional concept for transportation operations to determine shared regional objectives for transportation operations and determine what is needed to achieve the object. This will be used for the future regional virtual TMC</li> <li>• Prepare I-84 Corridor Operations Plan</li> </ul>
<b>Ada County Highway District</b>	<ul style="list-style-type: none"> <li>• Complete Three Cities River Crossing ITS deployment</li> <li>• Install Advanced Traffic Signal performance measures System</li> <li>• Update signal timing</li> <li>• Update/develop standard specifications (ITS and communications)</li> </ul>
<b>Valley Regional Transit</b>	<ul style="list-style-type: none"> <li>• Implement Transportation Wallet fare integration system</li> <li>• Implement AVAIL Business Intelligence Module</li> <li>• Implement upgrades to public transportation scheduling software</li> <li>• Implement digital mobile advertising</li> <li>• Report on existing TSP applications and identify opportunities for future expansion.</li> </ul>
<b>City of Nampa</b>	<ul style="list-style-type: none"> <li>• Design/build TMC</li> <li>• Upgrade fiber optic communication</li> </ul>
<b>City of Caldwell</b>	<ul style="list-style-type: none"> <li>• Develop/update roadway sections and signal standards</li> <li>• Develop wireless traffic signal interconnections</li> </ul>
<b>COMPASS</b>	<ul style="list-style-type: none"> <li>• Prepare I-84 Corridor Operations Plan</li> <li>• Facilitate virtual traffic management strategy</li> </ul>

The remainder of this section provides objectives and strategies for continuing the region’s ITS and TSMO progress, leading up to the full deployment of implementation plan projects.

### Promote Ongoing Regional Coordination

The ROWG was re-convened to serve as the steering committee for the Treasure Valley TSMO Strategic Plan update. This group consists of a cross-section of federal, state, regional, county, and local agencies involved in all aspects of transportation operations and emergency management across the two-county region. The group is voluntary and depends on the willing participation of individual agencies, as well as a minimal level of funding to allow COMPASS to facilitate ROWG meetings.

At a minimum, quarterly meetings of the ROWG are advised to promote the regional coordination required to implement many aspects of the regional TSMO vision and implementation plan.

Following TSMO Strategic Plan adoption, the ROWG can continue to support implementation through a work plan consisting of activities such as the following:

- Providing a forum for updates (projects, personnel, initiatives) by each agency
- Providing a forum for discussing regional operational needs and concerns (e.g., incident debriefs)
- Sharing funding needs and opportunities and coordinating multi-agency funding applications
- Providing a forum for agency/project presentations, information sharing, and site visits
- Coordinating annual updates to the TSMO Implementation Plan project list
- Coordinating project implementation activities among involved agencies
- Providing a forum for discussing training needs and coordinating training sessions
- Coordinating updates to the Regional ITS Inventory
- Coordinating updates to the Regional ITS Architecture
- Inviting vendors and others to provide informational presentations
- Organizing TSMO advocacy/awareness efforts

### **Maintain an Updated TSMO Deployment Plan and ITS Inventory**

Because transportation technology rapidly changes, and agency priorities and needs also shift over time, it is advisable to update the TSMO Implementation Plan project list and the regional ITS inventory on a regular basis (preferably at least annually, as COMPASS plans to do).

The TSMO Deployment Plan review would include:

- Noting projects that have been completed or are funded and underway.
- Updating planned projects to funded status, if relevant.
- Updating the deployment timeframe, if relevant.
- Adding new projects or modifying existing projects to reflect new priorities or needs.
- Reflecting on new regional transportation needs or issues, and how TSMO could help to address those needs (e.g., an upcoming large-scale construction project or roadway expansion)
- Eliminating or reformulating projects that are no longer of interest or relevance.
- Identifying projects that may be candidates for known upcoming funding sources; adjust scope, agency participation, project extents, etc. if advantageous.

These activities could be incorporated into the recurring work plan for the ROWG, or alternatively through direct coordination between COMPASS and TSMO agency staff.

## Build Regional TSMO Capacity

Successful TSMO programs rely upon investment in people, plans, and policies, not just the enabling ITS and communications technologies. In the Treasure Valley, there is an opportunity and a need to grow regional TSMO capacity in terms of staff training, coordinated regional policies, and other elements of a mature operations program.

The USDOT Capability Maturity Model (CMM) allows for self-assessment of agencies and regional programs against a set of criteria that define the maturity of a regional operations program. For example, an agency that relies upon individual “champions” for TSMO, rather than senior officials with formalized responsibilities on par with other agency programs, would be considered less mature.

There are numerous opportunities to advance the maturity of the Treasure Valley’s TSMO program in accordance with the six dimensions of the CMM as shown in Table 10. The capability levels are defined as:

- Level 1: Ad-hoc, low-level of capability
- Level 2: Managed, medium level of capability
- Level 3: Integrated, high level of capability
- Level 4: Optimized, highest level of capability

Table 10: Growth of Treasure Valley Regional TSMO Program using the FHWA Capability Maturity Model (CMM)

Capability Maturity Model (CMM) Six Dimensions	Opportunity for Maturation of Treasure Valley TSMO Program
<b>Business Processes</b> - including formal scoping, planning, programming, and budgeting	Regional program integrated into jurisdictions’ overall multimodal transportation plans with related staged program (Level 3)
<b>Systems and Technology</b> - including use of systems engineering, systems architecture standards, interoperability, and standardization	Systems and technology standardized and integrated on a regional basis (including arterial focus) with other related processes and training as appropriate (Level 3)
<b>Performance Measurement</b> - including measures definition, data acquisition, and data utilization	Output data used directly for after-action debriefings and improvements; data easily available and dashboarded (Level 2)
<b>Culture</b> - including technical understanding, leadership, outreach, and program legal authority	Jurisdictions’ senior management understands TSMO business case and educates decision makers/public (Level 2)
<b>Organization and Workforce</b> - including programmatic status, organizational structure, staff development, and recruitment and retention	TSMO-specific organizational concept developed within and among jurisdictions with core capacity needs identified; collaboration takes place (Level 2)
<b>Collaboration</b> - including relationships with public safety agencies, local governments, MPOs, and the private sector	Rationalization/sharing/formalization of responsibilities among key players through co-training, formal agreements, and incentives (Level 3)

## Sustain TSMO Assets and Programs

Unlike the initial years of ITS build-out in the 1990s and 2000s, there is an increasing need to dedicate resources and investments to replace, update, and maintain existing TSMO assets in the Treasure Valley.

The lifespan of most ITS devices and technology components, such as CCTV cameras, DMS, control room equipment, and software, is 5-15 years (versus 50 years for a bridge). Therefore, many first- and second-generation ITS and communications devices in the region will come due for replacement within the lifespan of this plan.

In the Treasure Valley, there is a need to raise awareness of the investments needed to sustain current TSMO capabilities, such as replacing field ITS systems, staffing existing operations centers, and updating regional operations plans.

Stakeholder agencies may benefit from tracking the lifecycle of ITS assets, similar to programs for monitoring bridges or pavement condition. Factual information about equipment replacement needs, and the maintenance backlog that will grow if not funded, may help to raise awareness of investment needs.

Similar calculations can be used to show the personnel levels required to continue to effectively staff operations programs and to maintain assets in proper condition.

Because TSMO strategies depend on these investments, failure to provide adequate resources will ultimately compromise the region's ability to provide critical TSMO services such as incident management and traffic signal coordination.

On the positive side, advances in technology will allow agencies to consider retirement, as opposed to replacement, of certain ITS assets. For example, ITD Headquarters is planning to retire HAR transmitters that have largely been replaced by consumer and mobile traveler information systems. Similar examples may be true in the future as increasingly connected vehicles reduce the utility of DMS located along the roadway.

## Continue Strategic and Measured TSMO Infrastructure Expansion

While there are many existing TSMO assets and programs to be maintained, portions of the region are still experiencing significant population and economic growth, creating a need to expand the existing footprint of TSMO programs and support additional ITS and communications infrastructure.

A prime example is the City of Nampa, whose population has nearly doubled since 2010<sup>5</sup>, placing additional stresses on the transportation system. The city is currently lacking ITS infrastructure (TMC, communications, regional interconnects) to effectively manage its network. This is reflected in the project list, where new corridor projects and ITS investments are concentrated in rapidly-growing cities and corridors.

Across the Treasure Valley, a key message from stakeholder agencies was the need to invest in a strategic and sustainable way when future ITS projects are considered. Most agencies face constrained budgets and competing demands, and TSMO projects are somewhat unique with a lifecycle cost structure that requires commitment to ongoing O&M and technology renewal budgets.

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<sup>5</sup> Idaho Statesman, <https://www.idahostatesman.com/news/local/community/canyon-county/article229559554.html>, accessed November 27, 2019

Strategies to help focus TSMO investment in high-impact locations at a sustainable level include:

- Prioritizing investments at locations that have been objectively identified as high need (e.g., highly-congested locations with measured degradation in travel time reliability).
- Identifying implementation strategies that can be coordinated with other capital projects to reduce construction costs.
- Calculating the ongoing O&M cost (staff, maintenance, software licensing, training, etc.) of the proposed investment.
- Considering the timing and cost of technology equipment replacement in the future (likely in 5-10 years post-implementation).
- Leveraging regional partnerships to reduce project costs (e.g., sharing trained technicians across agencies).

### **Fund TSMO Capital and Operations Investments**

Currently, a dedicated funding source for ITS infrastructure, or recurring TSMO operations and maintenance costs, does not exist. However, a few dedicated ITS project discretionary grant sources have become recently available to help further ITS deployment programs.

Funding of TSMO programs requires awareness of regional operations needs and the benefits of a coordinated TSMO program among policy makers responsible for disbursing transportation funding. TSMO projects can complement conventional capital expansion projects and can also provide “stopgap” measures in the interim period before capital projects can be implemented. TSMO approaches may even defer the need for expensive capital investments.

TSMO agencies should build awareness and partnerships with project proponents who are working to address various transportation needs in the region. For example, use of signal coordination could improve operations in a corridor that is constrained from further expansion due to cost or lack of right-of-way. Alternatively, inclusion of TSMO elements such as communications and CCTV may improve the scoring of a project in competition for regional funding.

The emergence of new technology areas including mobility on demand, smart cities, and connected/autonomous vehicles may open up new paths to funding. As when ITS was an emerging technology, there is likely to be dedicated federal funding support to incubate today’s emerging technologies, which can directly support TSMO. Agencies should monitor USDOT Notice of Funding Opportunities and reach out to their regional FTA and FHWA points of contact for help in determining funding eligibility. Additionally, COMPASS’ Resource Development Team provides support to its member agencies with grants.

Agencies will benefit by maintaining ongoing regional coordination to identify and respond to discretionary grant opportunities, many of which reward technological innovation and/or multi-agency and multi-modal approaches. This topic should be included in future ROWG agendas.

### **Drive Awareness of Needs and Benefits**

The relatively low cost and near-term implementation timeframe for TSMO improvements are attractive in a constrained funding environment, but require effort on the part of TSMO agencies to raise awareness of TSMO benefits among policy makers. TSMO is aligned with the Treasure Valley’s regional transportation vision and is reflected in CIM 2040 2.0.

Strategies that the ROWG may employ to raise TSMO awareness include:

- Briefings for policy makers on the Regional TSMO Strategy
- Presentations to professional organizations and project proponents
- Before/after studies quantifying the benefits of TSMO programs or improvements (potentially using increasingly available operations data)
- Tours and site visits to transportation/emergency management centers
- Fact sheets on regional TSMO benefits (annual report, project fact sheets, etc.)

### **Continue Openness to Emerging Technologies**

A fact of life for transportation agencies across the U.S. is the growing awareness of the potential transformative impact of emerging technologies such as connected and autonomous vehicles and new business models such as MaaS.

There continues to be a chicken-and-egg challenge at the local level of how to “future proof” transportation systems, and transportation technologies specifically, to account for these changes. The ground rules for many emerging technologies are still being written by (sometimes competing) coalitions of public and private-sector actors.

For example, what (if anything) should a local agency consider today when replacing a traffic signal controller to accommodate connected vehicles in the future? How should a transit agency invest in trip planning or fare payment tools, knowing that TNCs or bike share may be necessary to help customers complete the last mile?

There are more questions than answers at the current time, though it seems likely that upon retrospect many transformative transportation changes will become commonplace over the ten-year life of the TSMO Strategic Plan.

The Treasure Valley can continue its success in harnessing the opportunities (and managing the challenges) of emerging technologies by:

- Maintaining openness toward emerging technologies and new transportation market entrants, while still making decisions based on regional transportation policy principles (equity, sustainability, safety, etc.).
- Looking for appropriate angles on regional transportation needs to pursue new public/private partnerships and funding opportunities geared toward emerging technologies.
- Following emerging industry and national technical standards to guide specific local agency investments.
- Adopting open data and systems standards that are adaptable to multiple technology platforms, vendors, etc., when possible.
- Maintaining a dialogue among interested local agencies, as well as peers in other metropolitan areas facing similar issues.

# Appendix A – Existing and Planned ITS Architecture Service Packages

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# Appendix B – ITS Architecture Stakeholders

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# Appendix C – ITS Architecture Inventory

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# Appendix D – TSMO Implementation Plan Project List

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## ATTACHMENT 6. CARES ACT CERTIFICATION

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Attachment 6 includes a letter from the City certifying the project meets the criteria listed in the CARES Act.





July 15<sup>th</sup>, 2020


State of Idaho Broadband Grant  
CARES Act Certification

STATE OF IDAHO  
COUNTY OF CANYON

The undersigned, Jeff Barnes, representing the City of Nampa, 411 3<sup>rd</sup> St S, Nampa, ID 83651, Idaho, hereby swear (affirm) that:

1. I am the Deputy Public Works Director of the City of Nampa and thereby authorized to make these statements.
2. I have personal knowledge of the facts herein, and can testify completely thereto.
3. The purpose of this statement is to assure the Idaho Department of Commerce that the project will meet the CARES Act Criteria. Further guidance can be found [here](#) and [here](#).
  - i. Expenses to facilitate distance learning, including technological improvements, in connection with school closings to enable compliance with COVID-19 precautions.
  - ii. Expenses to improve telework capabilities for public employees to enable compliance with COVID-19 public health precautions.

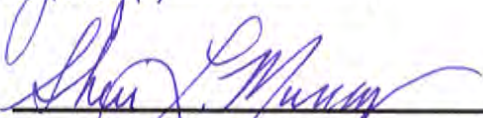
The City of Nampa project will facilitate telework and distance learning by providing public broadband access at the Lakeview Park thereby improving public safety in compliance with COVID-19 public health precautions.

  
\_\_\_\_\_  
Signature

7/14/20  
\_\_\_\_\_  
Date

SUBSCRIBED AND SWORN before me on this 14<sup>th</sup> day of July, 2020



  
\_\_\_\_\_  
Notary Public for STATE (Idaho)  
Residing at Meridian, ID  
Commission expires 10-26-24

**NAMPA POLICE DEPARTMENT**  
820 2ND STREET SOUTH • NAMPA, IDAHO 83651

**CURT SHANKEL**  
CAPTAIN

**JOE HUFF**  
CHIEF OF POLICE

**BRAD DANIELS**  
CAPTAIN

July 15, 2020

City of Nampa Public Works Department  
500 12<sup>th</sup> Avenue South  
Nampa, Idaho 83651

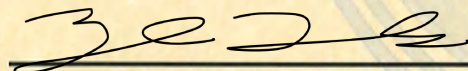
RE: State of Idaho Broadband Grant – Letter of Support

Dear Jeff Barnes,

I am pleased to confirm that the Nampa Police Department is in full support of the State of Idaho Broadband Grant application for Public Safety and Local Government. The Nampa Police Department will be a secondary user of the broadband service for public safety and enforcement applications.

The Nampa Police Department supports the project intent to facilitate telework and distance learning by providing public broadband access at the Lakeview Park thereby improving public safety in compliance with COVID-19 public health precautions.

Sincerely,



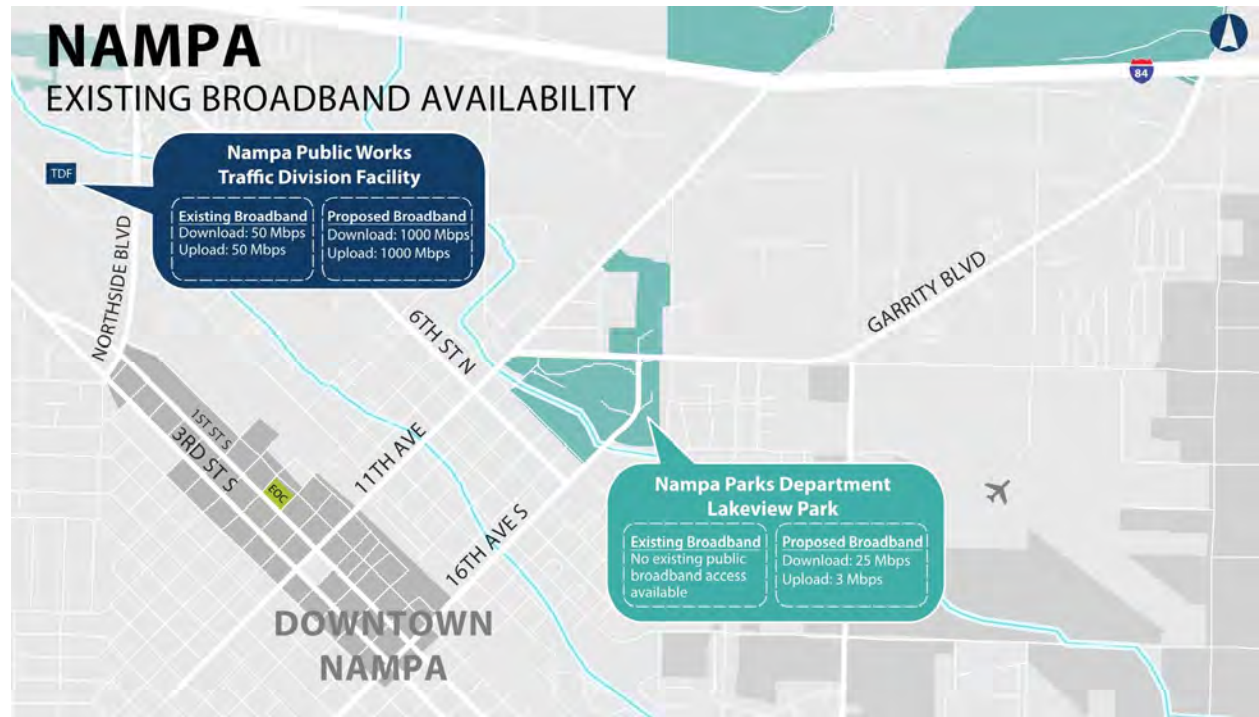
Captain Brad Daniels

7-13-2020

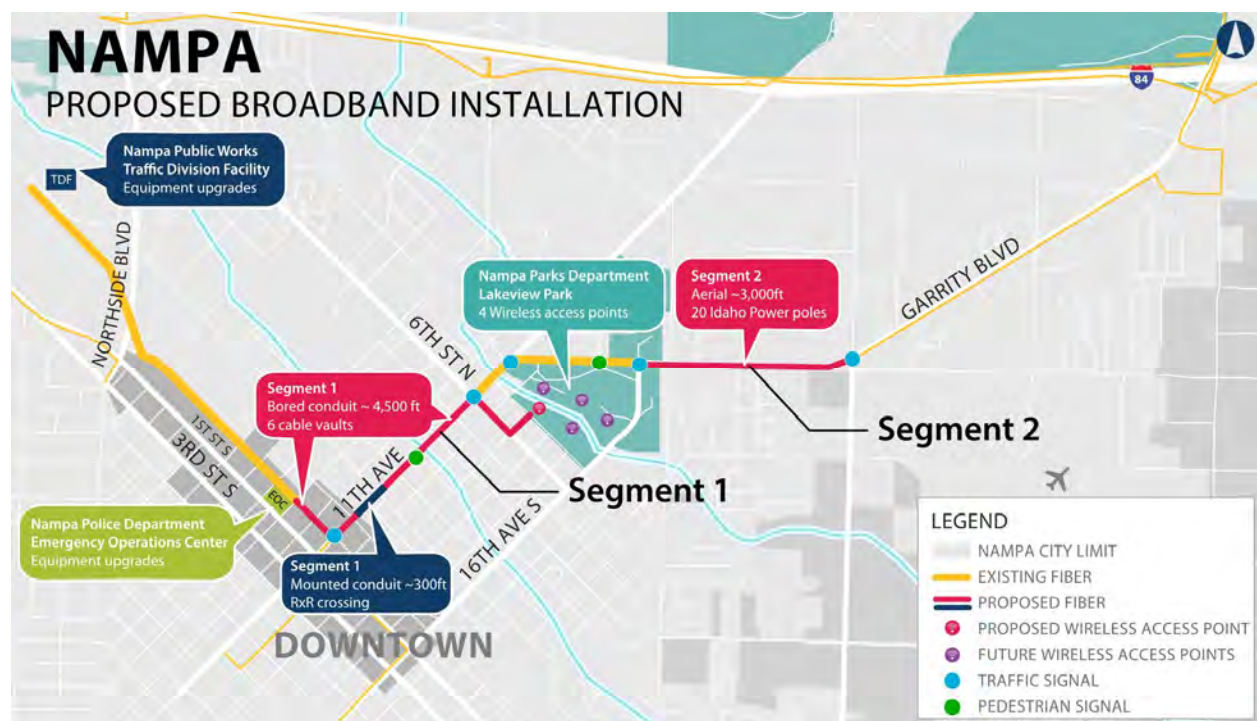
Date

**BLESSED ARE THE PEACEMAKERS**

MAP 1



## MAP 2



# State of Idaho Public Broadband Grant Application Public Safety/Local Government

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Applicant	Angela Barkell
Applicant ID	APP-004152
Company Name	Owyhee County
Recipient Address	Owyhee County NA Murphy, ID 83650
Phone	(208) 495-2421
Email	abarkell@co.owyhee.id.us
Amount Requested	\$465,000.00
Status	Submitted
Funded	<input type="checkbox"/>

Application Title: Owyhee County Public Safety Project

## Applicant Information

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**NOTICE: Grant applications, challenges, and responses to challenges will be posted to the Idaho Department of Commerce website**

**Purpose:**

The CARES Act funding received by the State of Idaho will fund projects across the state that create and retain local jobs and result in purposeful outcomes, including distance learning, telehealth public safety, commerce, and overall well-being. This CFAC Broadband Grant initiative grant program (the “Program for Public Safety and Local Government”) is designed to meet the CARES Act criteria, and help Idaho rebound from the COVID-19 Emergency. Approximately 20% of the total of \$50 million received by the Idaho Department of Commerce will be allocated to this program aimed at public safety organizations and local governments that lack access to broadband.

**• Projects must be completed and grant funds requested and dispersed before December 15th, 2020.**

**Question:** Contact information of applicant: Name Title Mailing Address City/Zip Email Phone



Angela Barkell, Clerk of the District Court, P.O. Box 128, Murphy, Idaho 83650,  
abarkell@co.owyhee.id.us, 208-495-2421

**Question:** List the cities/communities where the project(s) will take place.

Murphy, Idaho; Oreana, Idaho; Grandview, Idaho; Bruneau, Idaho

**Question:** Enter the zip code(s) where the project will take place.

83650, 83624, 83604

**Question:** Enter name and title of designated grant administrator

Polly Hulsey, Economic Development Manager, Region IV Development Association (RIVDA)

**Question:** Enter the email of the designated grant administrator

phulsey@csi.edu

**Question:** Enter the phone number of the designated grant administrator

208.732.5727 extension 3011

## Project Requirements

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### PROJECT REQUIREMENTS

- Be infrastructure investment, associated equipment, and accessories related to broadband capable of speeds of 1,000 Mbps download and 1,000 Mbps upload symmetrical.
- Be related to broadband with fiber to:
  - One (1) designated government facility: and
  - One (1) location for public Wi-Fi access where 100 citizens could simultaneously access minimum broadband speeds at 25 Mbps download and 3 Mbps upload while practicing physical distancing. Examples of locations include a municipal building parking area or a municipal park.
- Meet the CARES Act criteria, which is designed to address key areas of public health and safety by improving opportunities to telework, facilitate distance learning, and improve public safety.
- Be a project that does not overbuild existing broadband infrastructure at the required speeds to a local government facility for public safety and local governance.
- Applicants may own and maintain the infrastructure but make such infrastructure open and available for broadband service from only for-profit companies, or membership owned cooperative corporations as defined in [Idaho Code Title 30, Chapter 30](#) that provide broadband services to the services to the public.
- Be completed, operable, paid for, and submitted to the Idaho Department of Commerce for payment no later than December 15, 2020.
- Include broadband infrastructure and equipment costs meeting CARES Act criteria. Satellite service is not eligible for grant award.

**Question:** Does your project meet the CARES Act criteria?

Yes

No

**Question:** Project provides a minimum of 1,000Mbps download and 1,000Mbps upload symmetrical to public facility and access by citizens in municipal park or parking area where a minimum of 100 citizens could have access simultaneously at 25Mbps download/3Mbps upload.

Yes

No

**Question:** Does your project provide high speed service within the applicant's proposed facility for public safety, local governance, and or one (1) open access municipal location nearby for public access for emergencies.

Yes

No

**Question:** Applicants may own and maintain the infrastructure but must make such infrastructure open and available for broadband service from only for-profit companies, or membership owned cooperative corporations that provide broadband services to the public.

Yes

No

**Question:** I understand that the State of Idaho will provide no funding and have no obligations for projects that fail to be completed by December 15, 2020.

Yes

No

## Scored Criteria

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**Question:** Provide an overview of the project including why the project is important and will address broadband needs of the community.

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The Owyhee County Public Safety Broadband & Critical Infrastructure Project, which is contingent on the award and funding of Household Project 1, is a broadband with fiber project that focuses on public safety infrastructure. In this project, Tekfinity, a local Idaho Internet Service Provider (ISP) will connect the fiber brought to Murphy in Project 1 to the Owyhee County Sheriff's Office, which houses our 911 Dispatch Center and Jail. We will then erect a public safety tower on the Owyhee County campus which will house the Murphy LTE Micro-PoP, as well as equipment that will allow 100 individuals simultaneous access to broadband speed WiFi while social distancing. Installing this equipment on the tower will allow for a wider transmission (line of sight) area, which is important due to the hilly terrain in Murphy. Additionally, the tower installation and fiber will facilitate future expansion and upgrade of our public safety radio system, enabling us to connect to the statewide interoperable communications system.

The future of Public Safety involves the sharing of a lot of data with institutions within the jurisdiction, as well as with neighboring jurisdictions. This data includes criminal justice information, users' records, maps, pictures, videos, and Computer Aided Dispatch (CAD) information. In a 911 jurisdiction, there are a lot of entities that require high-capacity data sharing with 911, such as schools, utility companies, and emergency responders. Broadband is critical to public safety data sharing, and cannot be easily done over existing copper lines. If Household Project 2 (Murphy to Rimrock School between Grandview and Bruneau) is awarded, the Public Safety Project will add 6 more micro-PoPs along the fiber route laid by Project 2. The LTE micro-PoP towers can be used to enable our first responders—law enforcement, fire, and emergency medical system providers— to connect via 802.11 (standard WiFi), or mobile CBRS data terminals using their in-vehicle computers in areas where they cannot connect to a cellular network. The additional micro-PoPs in this project are will not only bring LTE broadband to more households along the route, but will finalize the LTE network for our first responders from Marsing to Bruneau. This will improve connections in many areas within the project area, to include much of the vast trail system used by off-road recreational enthusiasts, the area on and along the Snake River, at the CJ Strike Reservoir, and the many camping and recreational areas in the vicinity. Many emergencies occur in these areas, and lack of connection hampers our emergency response. Adding these additional layers of connectivity will greatly enhance responder capability, thereby improving citizen and responder safety.

**Question:** Is your project in an area where no local government facility has the internet speeds and bandwidth described 1000 Mbps download and 1000 Mbps upload symmetrical?

Yes

No

**Question:** Is your project in an area where no public park, municipal parking area, or similar access area for physical distancing has broadband speed to support 100 citizens at 25 Mbps download and 3 Mbps upload?

Yes

No

**Question:** Is the project in a town/city/municipality of less than 3,000 people?

Yes

No

**Question:** Does the project address a need as identified in a local or regional broadband plan? If yes, please describe.

Owyhee County agrees with the Governor's Broadband Task Force findings, which have become more critical as a result of COVID-19 & its impact on commerce, education, & the ability of private business & governmental entities to keep workers employed. "Access to broadband & high-speed internet services is an urgent priority for Idahoans in all corners of the state. A robust, comprehensive & dynamic broadband plan for Idaho is imperative in order to identify priorities & secure funding... recommendations... aimed at providing reliable broadband access to all residents & businesses in Idaho... Addressing solutions for the unserved areas in rural Idaho is the highest priority." Owyhee County's Multi-Jurisdictional Hazard Mitigation Plan seeks to, "Improve limited cell service in rural areas of the county, & implement backup communication systems." Current coverage limits are detrimental to work from home, distance learning & public safety response key to dealing with COVID-19. (See attached Plan)

**Question:** Will this project be in conjunction with another broadband grant for Households?

Yes

No

## Additional Requirements

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Upload Supporting Documents for scope of project including maps, site plans, studies, or photographs, demonstrating the location of the project.

### Project Attachment Templates:

[CARES Act Certification](#)

[Grant Budget Template](#)

[Project Schedule Form](#)

[Letters of Support/Community match template](#)

**Question:** Estimated total project cost?

460000.00

**Question:** List the underserved and unserved community facilities (schools, libraries, government offices, hospitals, public safety, etc.) within the proposed project area.

The project would serve the County Courthouse Complex containing the County Offices of Commissioners, Clerk, Courts, Sheriff, Prosecuting Attorney, Assessor, Treasurer, Planning and Zoning, Building Inspector, Road and Bridge Department. It would also provide service to The Owyhee County Historical Society and Museum and within this facility is the Owyhee County

Emergency Operations Center. It would serve a primary station of the Murphy/Reynolds/Wilson Fire and Ambulance Service. It would also serve the Idaho Transportation Department Road facility located proximate to Murphy.

**Question:** What is the maximum broadband speed that will be provided by the project?

1000 mbps download 1000 mbps upload

**Question:** Are permits, permissions, rights of way and zoning requirements readily available in order for the project to be completed and paid for by December 15, 2020?

Yes

**Question:** If answered no in previous question, please describe. If the project does not require any of the above answer N/A.

N/A

**Question:** Describe how the project will be administered, audited for completion, and accounting performed.

The County will be contracting with Region IV Development, a non-profit organization, to provide project administration, upon award of the grant. The County's designated liaisons with RIVDA are Jerry Hoagland, County Chairman; Angela Barkell, County Clerk; Sarah Kipper, 911 Coordinator. The Administrator's designated liaison with the County is Georgia Dimick, Polly Hulse, Jeff McCurdy, Brandy Lowe, and Brenda Hastreiter. RIVDA shall perform the following as Grant Administrator 1. Project Planning and pre-development a. Meet with the County, Internet Service Providers, the Department and other stakeholders to discuss grant conditions, rules, and requirements. b. Explain to stakeholders various funding program requirements. Detailing eligibility, application process, funding requirements, timelines, etc. c. Working with stakeholders to define "the project", for which funding will be applied for. d. Review data relative to project beneficiaries and information provided by Internet Service Providers in preparation of the application. e. Assisting the applicant in the application and submittal process. f. Assist with the preparation of the grant proposal for submittal to the Idaho Department of Commerce. 2. Project Implementation Activities: Assist the County in fulfilling the conditions of the grant program. Coordinate efforts of the County, Internet Service Providers, Idaho Department of Commerce, and other stakeholders. Assist in preparing and submitting required reports to Idaho Department of Commerce and other stakeholders. 3. Financial Management: Assist the County with establishing project financial management processes and procedures. Prepare payment requests for funding agency approval and facilitate the correction of errors or problems that are identified. Maintain a record of project expenditures and document that the County is properly disbursing funds in accordance with program requirements. Provide progress updates to stakeholders as requested. Note: These services do not replace the County and ISP providers responsibility to work with their financial teams to ensure accuracy in disbursements, etc. 4. Project Close-out: Documentation that the County has met the objective of the grant program and contractual performance requirements. Completing closeout documents for review and signature. Ensure all project and close out documents are submitted to the Idaho Department of Commerce. Ensure requested documents, concerns, and findings are addressed and resolved. Securing the Department's approval to close out.

**Question:** Include any other information regarding why your project should be considered for funding.

**TRAINING AND CERTIFICATION** It is more important than ever for our first responders to receive ongoing training and certification. The Covid-19 pandemic has necessitated many training courses to transition to an online format. Frequently we must be able to facilitate online learning for several first responders at one time, from different locations. Our current broadband speeds make this difficult if not impossible. This is another example of the Digital Divide, and without this ability to work and learn remotely, lack of broadband actually becomes dangerous to our citizens and first responders.

**NETWORKING** Tekfinity will provide a private MPLS high-speed network between our local government and public safety facilities in Homedale, Marsing, Murphy, and Grandview, which will provide a private secure network with less than 5 ms of latency which will allow those working and learning in our remote offices the same experience as those working in the main facilities where the servers reside.

**NG911** The world of public safety is moving quickly towards Next-Generation 911 (NG911). But Owyhee County, and the town of Murphy - where the Owyhee County 911 center is located, is constrained and limited by copper-based telecommunications services. The existing 911 telephone trunks and data links are 40-year-old technology, and are provided on copper lines. Presently, without optical fiber and broadband services, the Owyhee County 911 center will not be able to move forward with NG911. This copper constraint also limits Owyhee County 911 from participating in shared services grants for Host-Remote technical systems, as the connectivity on copper is not sufficient. This also prevents Owyhee County from participating in regional public safety grant opportunities. NG911 also requires an Emergency Services IP Network (ESINet) for delivering voice, video, and pictures into 911, and for interconnecting public safety responders. None of this can be done on existing copper facilities. This new fiber will enable us to look at other 911 Service Providers or other NG911 Service Providers which would allow for future upgrades to our 911 system.

**911 REDUNDANCY** Technical redundancy and system availability are two sides of the same coin. Presently, the copper into Murphy is a single point of failure, as there is no network redundancy available in this area. Without network redundancy, the availability of the system will never be 100%, as node failures, and cuts in communications lines do happen once in a while. When this occurs, Owyhee County 911 becomes completely isolated and functionally out of service. When networks go down, Owyhee County's 911 calls need to be sent to a neighboring jurisdiction that does not have access to Owyhee County maps, CAD data, and radio dispatch. This can represent a very dangerous situation for our citizens, as neighboring jurisdiction lack our local public safety knowledge. Broadband access will enable multiple options for critical public safety network redundancy, and greatly improve system availability for our citizens.

**REMOTE ACCESS FOR VENDOR DATA** All 911 technical systems require remote monitoring as part of the vendor's maintenance plan. These maintenance charges for 911 technical systems are very expensive, and are required for all systems, including 911 call taking systems, computer aided dispatch, radio consoles, mapping, etc. Presently, remote monitoring is constrained by lack of broadband services. There are no technicians or system support personnel living in Murphy; all system monitoring is triggered by remote alarms. When this happens, vendors remotely access the system. With broadband in place, this remote system monitoring and maintenance will be much better than it is today via copper. With broadband in place, vendors have more visibility into their specific systems, and they can often fix issues remotely.

**Question:** Upload Supporting Documents for scope of project including maps, site plans, studies, or photographs, demonstrating the location of the project.

[MOU Public Safety.pdf](#) (7/15/2020 8:39 AM)

[murphy-public-safety-map-of-project.pdf](#) (7/15/2020 8:38 AM)

**Question:** Upload the completed Grant Budget Template for the project that outlines the

various costs.

[murphy-public-safety-Idaho-Cares-Act-Broadband-Grant-Budget.pdf](#) (7/15/2020 4:01 PM)

**Question:** Complete the Project Schedule Form

[Idaho-Cares-Act-Broadband-Grant-Project-Schedule-Owyhee County.xlsx](#) (7/15/2020 12:36 PM )

**Question:** Include any Letters of Support or Community Match from the community.

[Community Match Grant Writing 911.pdf](#) (7/15/2020 4:23 PM)

**Question:** Provide a copy of your Community Broadband Plan if applicable.

[Extract from Hazard Mitigation Plan for Owyhee County.pdf](#) (7/15/2020 4:00 PM)

**Question:** Provide a notarized CARES Act Certification that this project meets the CARES Act criteria.

[Notarized CARES Act Certification.pdf](#) (7/14/2020 10:32 PM)

**Question:** Provide commitments from community anchor institutions or public safety networks which will utilize your service if the project is funded.

[Public Safety Coroner.pdf](#) (7/15/2020 4:24 PM)

[Public Safety Courthouse.pdf](#) (7/15/2020 4:24 PM)

[Public Safety Sgt. Bishop.docx](#) (7/15/2020 4:19 PM)

[Marsing Fire.pdf](#) (7/15/2020 2:54 PM)

[Public Safety Jail Lt.pdf](#) (7/15/2020 2:51 PM)

[Prosecuting Attorney Public Safety Project Support Letter.pdf](#) (7/15/2020 2:48 PM)

[Public Safety Support Museum.docx](#) (7/15/2020 2:34 PM)

[Road & Bridge Public Safety.docx](#) (7/15/2020 12:58 PM)

[Letter of Support Marsing Ambulance.doc](#) (7/15/2020 12:47 PM)

[Letter of Support Public Safety MRW.docx](#) (7/15/2020 12:46 PM)

[Letter of Support Assessor.docx](#) (7/15/2020 12:46 PM)

[Owyhee County Emergency Manager.pdf](#) (7/15/2020 12:45 PM)

**Question:** Map of the project area demonstrating the insufficient availability of broadband service for a public facility symmetrical service and in the proposed public service area for 100 citizens using minimum service.

[public-safety-broadband-map.pdf](#) (7/15/2020 12:37 PM)

**Question:** Map of the project area which includes the public facility and public service area, the broadband speeds provided, the fiber, and the technology used to provide the services.

[murphy-public-safety-map-of-project .pdf](#) (7/15/2020 8:38 AM)

## Signature

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Your identity has been authenticated through the login process with a unique email address and password available only to you. You agree that by typing your name, title and date below, you are electronically signing the application. By electronically signing the application, you acknowledge and represent that you understand and accept all the terms and conditions stated within the application and declare that the information provided is true and that the documents you are submitting in support of your application are genuine and have not been altered in any way.

**Question:** Type your name.

Angela Barkell

**Question:** Type your title.

Owyhee County Clerk

**Question:** Type the submission date.

7/15/2020





OWYHEE COUNTY BOARD OF COMMISSIONERS  
COURTHOUSE P.O. BOX 128 MURPHY, ID 83650-0128  
TELEPHONE (208) 495-2421

District 1 –Chairman - Jerry Hoagland-P O Box 128, Murphy, ID 83650 318-8308  
District 2 –Kelly Aberasturi-P O Box 128, Murphy, ID 83650 249-4405  
District 3 –Joe Merrick-P O Box 128, Murphy ID 83650 250-9005

State of Idaho Broadband Grant  
CARES Act Certification

STATE OF IDAHO, COUNTY OF OWYHEE

The undersigned, Jerry L. Hoagland, representing Owyhee County, Idaho 20381 State Highway 78 | Murphy, ID 83650, hereby swears (affirms) that:

1. I am Chairman of the Board of County Commissioners and thereby authorized to make these statements.
2. I have personal knowledge of the facts herein, and can testify completely thereto.
3. The purpose of this statement is to assure the Idaho Department of Commerce that the project will meet the CARES Act Criteria including

- i. Expenses to facilitate distance learning, including technological improvements, in connection with school closings to enable compliance with COVID-19 precautions.
- ii. Expenses to improve telework capabilities for public employees to enable compliance with COVID-19 public health precautions.

The costs covered are necessary expenditures to be incurred 1) due to the public health emergency with respect to the Coronavirus Disease 2019 (COVID-19); 2) were not accounted for in the budget most recently approved as of March 27, 2020 (the date of enactment of the CARES Act) for Owyhee County; and 3) will be incurred during the period that begins on March 1, 2020, and ends on December 30, 2020

Jerry Hoagland  
Signature

7/13/20  
Date

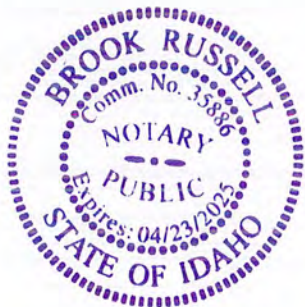
SUBSCRIBED AND SWORN before me on this 13<sup>th</sup> day of July 2020

Brook Russell

Notary Public for Idaho

Residing at Homedale, ID

Commission expires April 23, 2025



**Idaho CARES Act Broadband Grant Budget**

<b>Line Item</b>	<b>Grant Dollars</b>				<b>Total</b>
<b>Totals</b>					

## Idaho CARES Act Broadband Grant – Project Schedule

Activity	Responsible Party
Pre-Project Meetings	RIVDA/TEKFINITY/OWYHEE COUNTY
MOU Signed	Board of Owyhee County Commissioners Chairman (BOCCC)
Certification Signed	BOCCC
Grant Submitted	Owyhee County
Project Start-up	TEKFINITY
50% Completion	TEKFINITY
Substantial Completion	TEKFINITY
100% Completion	TEKFINITY
Operable	TEKFINITY
Documents submitted	RIVDA
Final Closeout	RIVDA/ISP/BOCCC

Start Date	End Date
7/6/2020	Ongoing
7/13/2020	7/13/2020
7/13/2020	7/13/2020
7/15/2020	7/15/2020
8/1/2020	Ongoing
-	9/30/2020
-	10/15/2020
11/1/2020	11/1/2020
11/1/2020	11/1/2020
11/16/2020	12/15/2020
-	12/15/2020

On May 31, 2018 FEMA Approved the Hazard Mitigation Plan of Owyhee County Idaho. The following is extracted from the pages 194 and 195 of that document, which is too large to upload to the grant application site. The complete plan is available for review on the Owyhee County web page at [owyheecounty.net](http://owyheecounty.net).

The plan addresses additional mitigation actions needed that were identified by the members of the planning committee. In the list below, we have used bold type to emphasize the action related to the requested broadband grant applications. The mitigation action to “implement backup communication systems” would be supported by the expansion of broadband access to a large segment of the population.

#### 6.4.3 Additional Mitigation Actions

All jurisdictions were provided the opportunity to propose mitigation actions. Some of these discussed mitigation actions were not formally adopted or scored, but for future planning purposes and HMP updates, the following lists the additional proposed mitigation actions initially discussed by the committee and later considered and broadened to county-wide issues by the Emergency Manager and the Planning and Zoning Administrator. Many of the actions initially raised by a community of Silver City representative were found to be pertinent to a wider area of Owyhee County.

- Wildfire fuels reduction: In general terms as needed for defensible spaces for rural residences. and one option for solution would be education. Another concern regarding wildfire fuels reduction is related to invasive juniper which can be addressed through mastication and prescribed burns. A third concern regarding Wildfire fuels reduction is related to the large percentage of federally managed lands within the county (approximately 80%) which are primarily grazing lands where decades of BLM grazing reductions have resulted in increased fuels and, thus, increased fire risk. This issue may be mitigated through increased grazing as the most economical form of fuels reduction.
- Improve roads and bridges proximate to Jarbridge Rivers and East Fork of the Bruneau, and clean debris from streams. Due to the steep terrain and flash flooding issues that may occur on even those drainages that may not normally carry large quantities of water for the greater portion of the year, this issue is also relevant to a number of other roads and drainages within Owyhee County.
- Designate community shelters for use during severe weather in incorporated cities and unincorporated communities across the county.
- **Improve limited cell service in rural areas of county, and implement backup communication systems.**
- Reduce juniper across the county.
- Encourage aspen and regenerate current aspen stands where appropriate.
- Bury propane tanks at-risk propane tanks where appropriate in the county; assess other propane tanks and buildings.
- Develop additional fire suppression waters and/or pumping capacity of water across the county.
- Develop egress plan with focus on busy weekends and tourists for areas that are heavily impacted by recreational users from out of county.
- Identify available water sources (Three Creek Well for example) which needs power hookup/generator to remain available for emergencies.

Jim Desmond  
Owyhee County Emergency Services Coordinator  
P.O. Box 128  
Murphy, ID 83650

July 15, 2020

Ms. Sarah Kipper  
Owyhee County 911 Coordinator  
P.O. Box 128  
Murphy, ID 83650

Re: Letter of Support for 3 Cares Act Broadband Grant Applications Submitted by Owyhee County

This document will be delivered via email to [skipper@co.owyhee.id.us](mailto:skipper@co.owyhee.id.us)

Dear Ms Kipper:

I am aware of the specifics of the two Household and one Public Safety grant applications you have developed for potential funding approval.

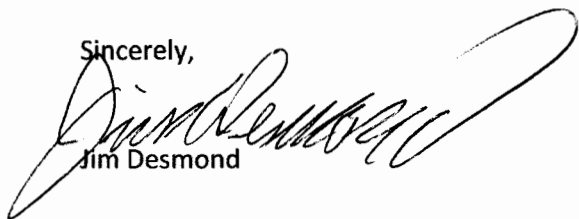
I have been the Owyhee County Emergency Services Coordinator since October of 2008. From 2002 I have been engaged in a variety of other contracted functions for the Board of Owyhee County Commissioners that include Natural Resources Committee Director, Murphy Airport Manager, and Staff Assistant to the Board. Prior to the beginning of contract work, I was employed by the County as an Appraiser in the Office of the County Assessor. In that job, I traveled extensively in the "back country" of the county as well as in the more developed areas along the Snake River from the Hammet Bridge to Givens Hot Springs, performing property appraisals.

I know the county well from those previous and current jobs and am familiar with the challenges to communication that were then, and still are, making life more difficult for Owyhee County Residents than for those in more populated areas. I know that the county's per capita income is 42<sup>nd</sup> of 44 Idaho Counties and I know that means that we are unlikely to attract a commercial operator willing to make the broadband infrastructure investment necessary to bring Owyhee County on par with our neighboring counties of Ada and Canyon.

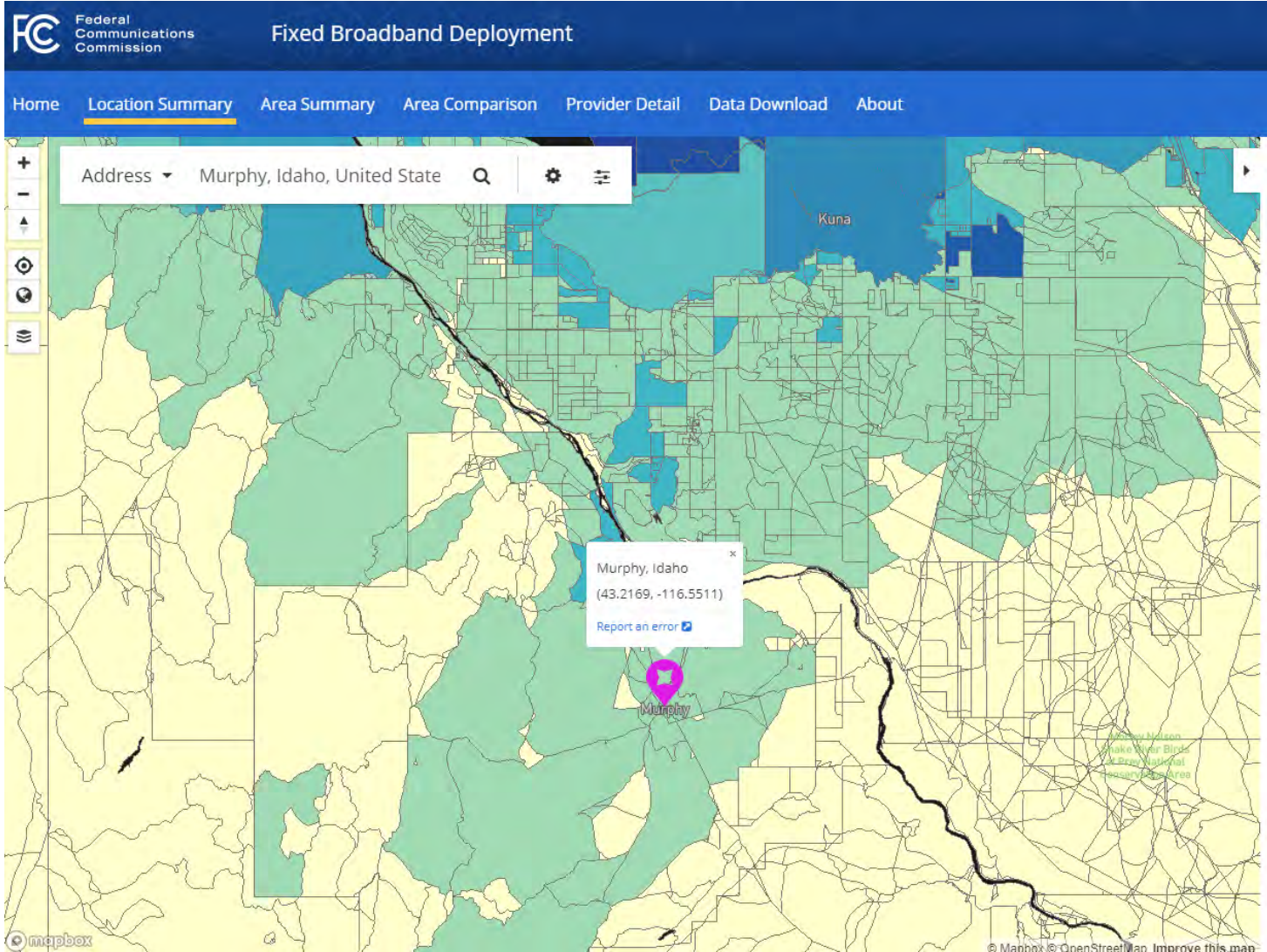
As the County Emergency Services Coordinator I have seen the adverse impact that the lack of reliable and high speed internet access has caused for several of our first responder entities. As you know, our first responders are nearly all small, independent organizations with little funding. With the exception of the Owyhee Sheriff's Office and the Homedale PD, our first responder entities are comprised of volunteer members serving their communities. They do this service while working other jobs and they often struggle to provide the information required during this Covid-19 event. In order for our responders to receive assistance in obtaining very scarce personal protective equipment (PPE), our medical responders are being required to post daily to two separate internet based PPE monitoring systems. Our fire and Law Enforcement responders are required to post daily in one internet based system. In many cases the slow and/or unreliable internet access we have in even our more populated areas makes this seemingly manageable task quite difficult. Your proposed broadband grants will go a long way toward rectifying this problem.

I strongly support the need for the grants to provide increased access and improved access via broadband as detailed in your grants.

Sincerely,

A handwritten signature in black ink, appearing to read "Jim Desmond". The signature is fluid and cursive, with a large loop at the end.

Jim Desmond



Provider	Tech	Down (Maps)	Up (Maps)
ViaSat, Inc.	Satellite	35	3
Safelink Internet	Fixed Wireless	25	5
Hughes Network Systems, LLC	Satellite	25	3
VSAT Systems, LLC	Satellite	2	1.3
CenturyLink, Inc.	ADSL	1.5	0.896

### All Providers Reporting Service

Census block ID: 160739502001937

### Number of Fixed Residential Broadband Providers



### Broadband

**Technology** ADSL, Cable, Fiber, Fixed Wireless, Other  
**Speed** ≥ 25/3 Mbps  
**Date** June 2019 (latest public release)



**MEMORANDUM OF UNDERSTANDING  
BETWEEN OWYHEE COUNTY AND TEKFINITY, LLC. FOR IDAHO CARES ACT  
PUBLIC SAFETY PROJECT**

**1. Parties.** This Memorandum of Understanding (hereinafter referred to as “MOU”) is made and entered into by and between Owyhee County, herein referred to as “County”, whose address is 20381 State Highway 78, Murphy, Idaho, and Tekfinity, LLC, an Internet Service Provider (ISP) whose address is 10350 West Emerald Street, Boise, Idaho, herein referred to as the “ISP”.

WHEREAS, the County is making application to the Idaho Department of Commerce, herein referred to as “the Department”, for the receipt of grant funds under the Idaho CARES\* Act Broadband Grant Program, herein referred to as the “Grant Program” for the purpose of improving broadband access in unserved and underserved areas of the community; and

WHEREAS, the County is currently considering whether to manage the grants or to contract for grant management services with Region IV Development Association, Inc., herein referred to as Grant Manager, to provide grant project administrative services to help the County comply with the conditions of Grant Program.

**2. Purpose.** The purpose of this MOU is to establish the terms and conditions under which the County and ISP will partner together to enhance broadband services in the community and complying with the conditions of the Grant Program.

The Public Safety Project includes a tower and equipment located on Owyhee County property at 20381 State Highway 78, Murphy, Idaho, and eight (8) mini-Point of Placement LTE broadband towers located along State Highway 78 from Murphy, Idaho, to Grandview, Idaho, at the locations specified in the Grant Project.

The CARES Act funding received by the State of Idaho will fund projects across the state that create and retain local jobs and result in purposeful outcomes, including distance learning, telehealth public safety, commerce, and overall well-being. The Grant Program initiative is designed to meet the CARES Act criteria by expanding broadband services to unserved and underserved areas of the State, and help Idaho rebound from the COVID19 public health emergency. Projects under this program must meet the following eligibility criteria:

- A. Be infrastructure investment, associated equipment, and accessories related to broadband as defined by the FCC: with speeds, at a minimum of 25 Mbps download and 3 Mbps upload.
- B. Meet the CARES Act criteria, which is designed to address key areas of public health and safety by improving opportunities to telework, facilitate distance learning, and improve public safety.
- C. Be a project that serves underbuilt areas and does not overbuild existing broadband service. Underbuilt areas are defined as locations where less than fifty percent (50%) of households in the project area have access to broadband service.

\* The Coronavirus Aid, Relief, and Economic Security (CARES) Act

- D. Include only new broadband service to be installed, owned, and operated by for-profit companies, or membership owned cooperative corporations as defined in Idaho Code section § 30-30-103 that provide broadband services to the public.
- E. Provide broadband service within the applicant's proposed project area.
- F. Be completed, operable, paid for, and submitted to the Idaho Department of Commerce for payment no later than December 15, 2020.
- G. Include broadband infrastructure and equipment costs meeting CARES Act criteria. Note: Satellite service is not eligible for grant award.

**3. Term of MOU.** This MOU is effective \_\_\_\_\_ and shall remain in full force and effect for not longer than \_\_\_\_\_. This MOU may be terminated, with or without cause, by either party upon \_\_\_\_\_ written notice, which notice shall be delivered by hand or by certified mail to the address listed above.

**4. Responsibilities of County.** The County shall provide the following in connection with this agreement:

- A. The County is an eligible applicant of the Grant Program and will apply for financial assistance through the grant program to upgrade broadband infrastructure. The County will prepare and submit an application to the Department for funding through the Grant program.
- B. Submit all reports and updates to the Department as required by the grant program.
- C. At the completion of construction and after the ISP has certified that the project is complete, operational, and in compliance with the Grant Program requirements, the County will submit a funding reimbursement request to the Department for eligible project expenses and facilitate the correction of errors or problems that are identified with associated documentation. This must be completed no later than November 30, 2020.
- D. The County will reimburse the ISP for eligible expenses associated with the Grant Program with funds obtained through the Department.
- E. Maintain a record of project expenditures in accordance with program requirements.

**5. Responsibilities of ISP.** The ISP shall provide the following responsibilities in connection with this agreement:

- A. Pre-Application – Assist the County in the preparation of the grant application by providing the following information:
  - 1) Develop a scope of work, project costs, and a project schedule
  - 2) Maps of proposed service area, site plans, studies, and photographs that demonstrate the location of the project.
  - 3) Help describe the benefits of the project
  - 4) Provide evidence that the project serves an underbuilt area and does not overbuild existing broadband service as described in the grant conditions. Underbuilt areas are defined as locations where less than fifty percent (50%) of households in the project area have access to broadband service. Without documenting this, the project would be ineligible.
  - 5) Identify the number of households that may be able to receive broadband services because of the project

\* The Coronavirus Aid, Relief, and Economic Security (CARES) Act

- 6) Provide evidence that the ISP is a for-private company or membership owned cooperative corporation.
- 7) Describe the maximum speed provided by the ISP once the project is completed.
- 8) List of community anchor institutions or public safety networks which will utilize your services if the project is funded.
- 9) Maps – (provide all maps electronically in PDF format)
  - i. Map of the project area demonstrating the insufficient availability of broadband service for a public facility at 1,000 Mbps download and 1,000 Mbps upload symmetrical service and in the proposed public service area for 100 citizens using the service at a minimum of 25 Mbps download and 3 Mbps upload.
  - ii. Map of the project area which includes the public facility and public service area, the broadband speeds provided, the fiber, and the technology used to provide the services
- 10) Other information deemed necessary and appropriate for the purpose presenting a complete grant application.

B. Post award (if applicable)

- 1) Purchase, install, and/or construct the broadband infrastructure as outlined in the scope of work submitted to and approved by the Department.
- 2) Complete construction by November 30, 2020.
- 3) Provide regular updates on the progress of the project to the County, their Grant Manager, and the Department.
- 4) Provide required information and documents necessary for the County and their Grant Manager to provide timely and accurate reports to the Department.
- 5) Provide documentation of all financial expenditures and other associated information for reimbursement to the County and their Grant Manager.

**6. General Provisions**

- A. **Amendments.** Either party may request changes to this MOU. Any changes, modifications, revisions or amendments to this MOU which are mutually agreed upon by and between the parties to this MOU shall be incorporated by written instrument, and effective when executed and signed by all parties to this MOU. Any project amendments cannot impede meeting the project deadline of December 15, 2020.
- B. **Applicable Law.** The construction, interpretation and enforcement of this MOU shall be governed by the laws of the State Idaho. The courts of the State of Idaho shall have jurisdiction over any action arising out of this MOU and over the parties, and the venue shall be the Third Judicial District of Owyhee County, State of Idaho.
- C. **Entirety of Agreement.** This MOU, consisting of four (4) pages, represents the entire and integrated agreement between the parties and supersedes all prior negotiations, representations and agreements, whether written or oral.
- D. **Severability.** Should any portion of this MOU be judicially determined to be illegal or unenforceable, the remainder of the MOU shall continue in full force and effect, and either party may renegotiate the terms affected by the severance.

\* The Coronavirus Aid, Relief, and Economic Security (CARES) Act

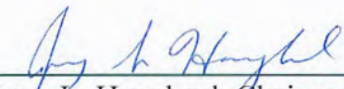
- E. **Sovereign Immunity.** Owyhee County and the Owyhee County Sheriff's Office and their respective governing bodies do not waive their sovereign immunity by entering into this MOU, and each fully retains all immunities and defenses provided by law with respect to any action based on or occurring as a result of this MOU.
- F. **Third Party Beneficiary Rights.** The parties do not intend to create in any other individual or entity the status of a third-party beneficiary, and this MOU shall not be construed so as to create such status. The rights, duties and obligations contained in this MOU shall operate only between the parties to this MOU and shall inure solely to the benefit of the parties to this MOU. The provisions of this MOU are intended only to assist the parties in determining and performing their obligations under this MOU. The parties to this MOU intend and expressly agree that only parties signatory to this MOU shall have any legal or equitable right to seek to enforce this MOU, to seek any remedy arising out of a party's performance or failure to perform any term or condition of this MOU, or to bring an action for the breach of this MOU.

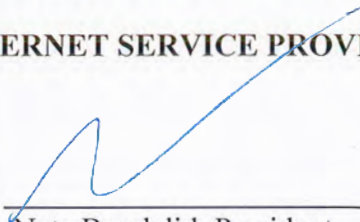
7. **Signatures.** In witness whereof, the parties to this MOU through their duly authorized representatives have executed this MOU on the days and dates set out below, and certify that they have read, understood, and agreed to the terms and conditions of this MOU as set forth herein.

The effective date of this MOU is the 13th day of July, 2020.

**COUNTY OF OWYHEE**

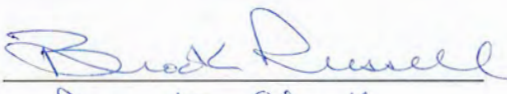
**INTERNET SERVICE PROVIDER**

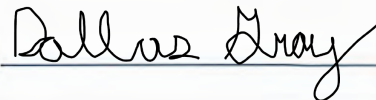
By:   
Jerry L. Hoagland, Chairman

By:   
Nate Bondelid, President  
Tek-Hut, Inc. / Tekfinity, LLC

7/13/20  
Date

7/14/20  
Date

Attest:   
Deputy Clerk

Attest: 

Marsing Fire Department

303 Main Street

Marsing, Idaho 83639

RE: Owyhee County

Letter of Support

Dear Chairman Hoagland:

As an emergency service provider in rural Owyhee County, I strongly support the Idaho Broadband Grant application through the CARES (The Coronavirus Aid, Relief, and Economic Security) Act funding in our community and am very excited for the opportunities this funding will provide to install broadband service options for our rural residents.

I understand the need to provide the businesses and residents of Owyhee county with highspeed and reliable broadband services.

Accessing online training quicker and with more stability in the connection would greatly aid our department members to continue their required training.

A more up to date broadband service available to us would also increase the effectiveness of our future plans to accomplish mobile computer aided dispatch.

Thank you in advance for taking the time to read this letter of support.

Sincerely,

A handwritten signature in black ink, appearing to read 'Lynn Bowman', with a long, sweeping horizontal line extending to the right.

Lynn Bowman

Assistant Chief-Marsing Fire Department

**OWYHEE COUNTY**

P.O. Box 313 Marsing, ID 83639

Aaron Tines, Coroner



**CORONER'S OFFICE**

(208) 896-4266

July 15, 2020

To: Whom it may Concern

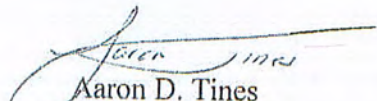
From: Aaron D. Tines, Owyhee County Coroner

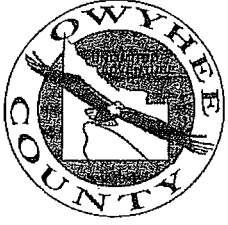
Re: Letter of Support

As a representative of Owyhee County, the Owyhee County Coroner's Office is pledging our support for Owyhee County's application for the Owyhee County Public Safety Critical Infrastructure Project.

Having high-speed broadband connections to Public Safety and Government Facilities is critical as we move forward in the recovery process, as well as fulfilling public safety connectivity needs in the future. This project will increase the broadband accessibility and capacity to the critical infrastructure facilities identified in the project.

Thank you for your time and consideration.

  
Aaron D. Tines  
Owyhee County Coroner



**ANGELA BARKELL**  
**OWYHEE COUNTY**  
**CLERK OF THE DISTRICT COURT**  
**EXOFFICIO AUDITOR RECORDER**

**TRINA AMAN**  
**CHIEF DEPUTY**  
taman@co.owyhee.id.us

20381 State Hwy 78  
PO Box 128  
Murphy, Idaho 83650  
abarkell@co.owyhee.id.us

July 15, 2020

To: Whom it may Concern

From: Angela Barkell, Clerk of the District Court, Ex-Officio Auditor and Recorder

Re: Letter of Support

As a representative of Owyhee County, the Clerk's Office is pledging our support for Owyhee County's application for the Owyhee County Public Safety Critical Infrastructure Project.

Having high-speed broadband connections to Public Safety and Government facilities is critical as we move forward in the recovery process, as well as fulfilling public safety connectivity needs in the future. This project will increase the broadband accessibility and capacity to the critical infrastructure facilities identified in the project.

Thank you for your time and consideration.

  
Angela Barkell



## OWYHEE COUNTY SHERIFF'S OFFICE

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To: Whom it may Concern

From: James Vincent, LT.

Re: Letter of Support

As a representative of Owyhee County, the Owyhee County Sheriff's Office is pledging our support for Owyhee County's application for the Owyhee County Public Safety Critical Infrastructure Project.

Having high-speed broadband connections to Public Safety and Government Facilities is critical as we move forward in the recovery process, as well as fulfilling public safety connectivity needs in the future. This project will increase the broadband accessibility and capacity to the critical infrastructure facilities identified in the project.

Thank you for your time and consideration.

James Vincent



Idaho CARES Act Broadband Grant  
Match

Community: Owyhee County

Contributor name (& title): Sarah Kipper, 911 Coordinator

Agency/Business: Owyhee County 911

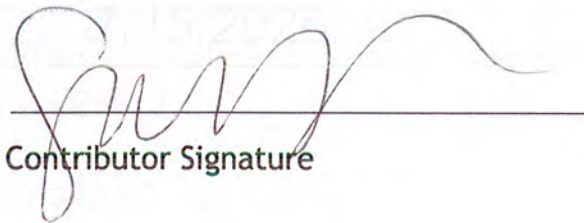
DESCRIPTION OF DONATION:

Date: 7/15/2020

Grant writing @ \$35.00 / hr,  
100 hours.

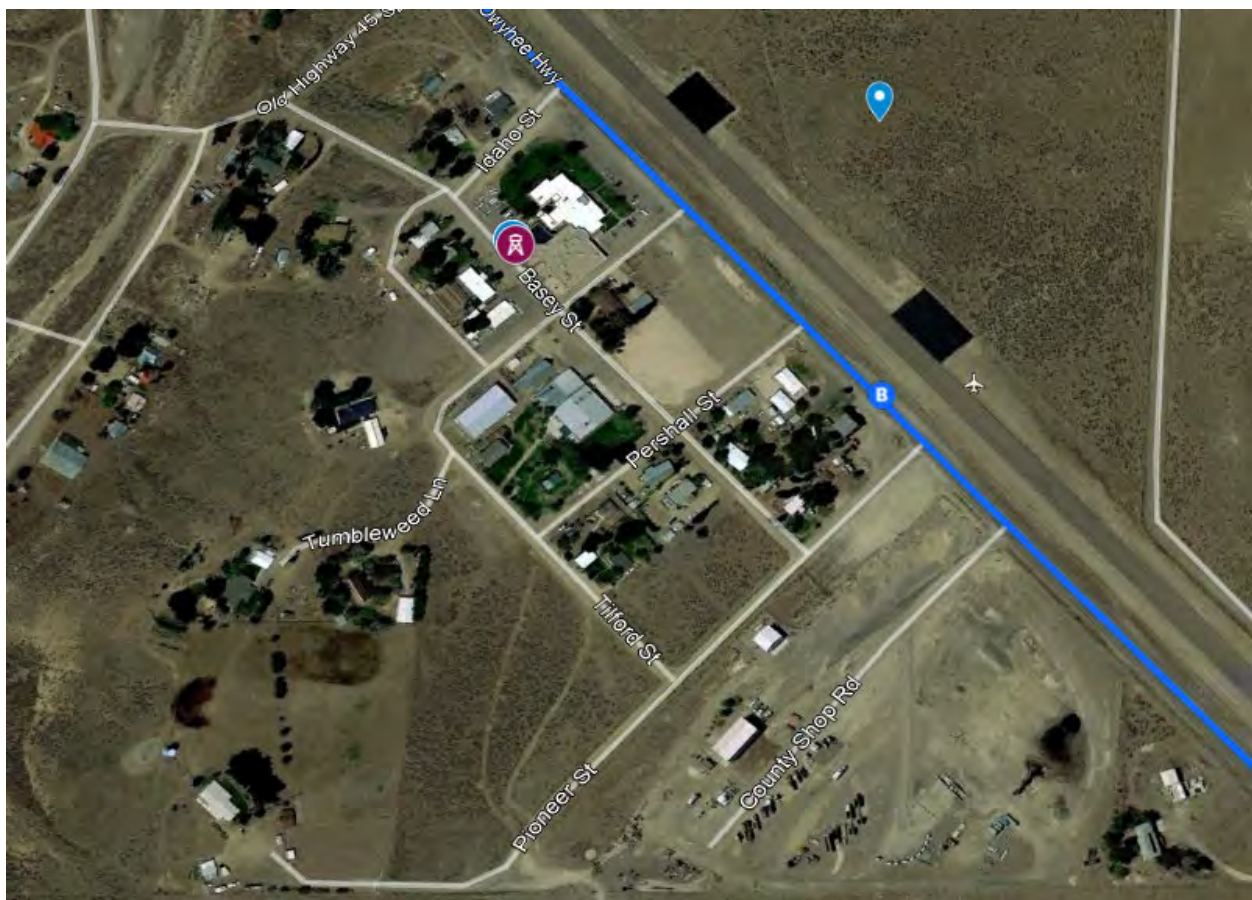
Total Amount Contributed to Project \$ 3500

I hereby certify that the above listed contributions have been made in the amount (s) shown.

  
Contributor Signature

7/15/2020

A new tower installed behind the sheriff building will support the public safety project and provide a backup path to the fiber at 1000M to the internet. It will also include one public wifi access where 100 citizens can access 100M internet access. There will also be 6 micro pops installed along the fiber path from Murphree to Grand View. The 6 micro LTE pops are depicted in the map to the right in yellow.







**OWYHEE COUNTY  
PROSECUTING ATTORNEY  
JEFFREY L. PHILLIPS**

OWYHEE COUNTY COURTHOUSE  
P.O. BOX 128  
MURPHY, IDAHO 83650

**DEPUTY PROSECUTOR  
SAMUEL N. DICKINSON**

PHONE  
208-495-1153

FAX  
208-495-2592

To: Whom it may Concern

From: Jeffrey L. Phillips, Owyhee County Prosecuting Attorney

Re: Letter of Support

As a representative of Owyhee County, the Owyhee County Prosecuting Attorney is pledging our support for Owyhee County's application for the Owyhee County Public Safety Critical Infrastructure Project.

Having high-speed broadband connections to Public Safety and Government Facilities is critical as we move forward in the recovery process, as well as fulfilling public safety connectivity needs in the future. This project will increase the broadband accessibility and capacity to the critical infrastructure facilities identified in the project.

Thank you for your time and consideration.

Thank You,

A handwritten signature in black ink that reads "Jeffrey L. Phillips".

Jeffrey L. Phillips  
Owyhee County Prosecuting Attorney

To: Whom it may Concern

From: Sgt. Greg Bishop

Re: Letter of Support

As a representative of Owyhee County, the Owyhee County Sheriff's Office is pledging our support for Owyhee County's application for the Owyhee County Public Safety Critical Infrastructure Project.

Having high-speed broadband connections to Public Safety and Government Facilities is critical as we move forward in the recovery process, as well as fulfilling public safety connectivity needs in the future. This project will increase the broadband accessibility and capacity to the critical infrastructure facilities identified in the project.

As a road deputy for the Owyhee County Sheriff's Office I have seen first hand the challenges faced by not only our residents face but those traveling through our jurisdiction due to the lack of access to high-speed broadband connections. Technology is evolving at such a fast pace and our county is struggling to meet the demands of those we serve. During this difficult time of social distancing or one could even call it isolation it is more important than ever for our county population to stay connected and be able to conduct needed communications. This project could very well help save lives as well as mitigate the need for unnecessary risk to first responders.

Thank you for your time and consideration.

Sgt. Greg Bishop

# OWYHEE COUNTY HISTORICAL SOCIETY MUSEUM AND LIBRARY



17085 Basey Street • Murphy, ID 83650

Phone: (208) 495-2319 • Fax: 495-9824 • [director@owyheemuseum.org](mailto:director@owyheemuseum.org) • [www.owyheemuseum.org](http://www.owyheemuseum.org)

To: Whom it may Concern

From: Eriks Garsvo, Director

Re: Letter of Support

As a representative of Owyhee County, the Owyhee County Historical Society is pledging our support for Owyhee County's application for the Owyhee County Public Safety Critical Infrastructure Project.

Having high-speed broadband connections to Public Safety and Government Facilities is critical as we move forward in the recovery process, as well as fulfilling public safety connectivity needs in the future. This project will increase the broadband accessibility and capacity to the critical infrastructure facilities identified in the project.

Thank you for your time and consideration.

Eriks Garsvo

Executive Director



# OWYHEE COUNTY HISTORICAL SOCIETY MUSEUM AND LIBRARY



17085 Basey Street • Murphy, ID 83650

Phone: (208) 495-2319 • Fax: 495-9824 • [director@owyheemuseum.org](mailto:director@owyheemuseum.org) • [www.owyheemuseum.org](http://www.owyheemuseum.org)



To: Whom it may Concern

From: Don Best / Owyhee County Road & Bridge Dist III Supervisor

Re: Letter of Support

As a representative of Owyhee County, the Owyhee County Road & Bridge Dist III is pledging our support for Owyhee County's application for the Owyhee County Public Safety Critical Infrastructure Project.

Having high-speed broadband connections to Public Safety and Government Facilities is critical as we move forward in the recovery process, as well as fulfilling public safety connectivity needs in the future. This project will increase the broadband accessibility and capacity to the critical infrastructure facilities identified in the project.

Thank you for your time and consideration.

**Don Best**





# MARSING AMBULANCE SERVICE

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P.O. Box 132 • Marsing, Idaho 83639 • Telephone: 208-407-0300 • Fax: 208-896-5563 • Email: marsingambulance@cableone.net

Dear Grant Committee

As a representative of Public Safety in Owyhee County, the Marsing Ambulance Service is pledging our support for Owyhee County's applications for the Murphy to Marsing Broadband to Households Critical Infrastructure Project, and the Owyhee County Public Safety Critical Infrastructure Project.

Having high-speed broadband connections to our Public Safety Facilities is critical as we move forward in the recovery process, as well as fulfilling public safety connectivity needs in the future. We support the application to bolster our broadband capacity for the benefit of our community. We have areas in our response district where we have no broadband coverage at all so cannot communicate with our dispatch or medical control. Needless to say that situation is a huge safety concern for our providers and our patients. Increasing the accessibility and capacity of broadband between our facilities housing Emergency Services Dispatch, Law Enforcement, Fire, and Emergency Medical services and critical infrastructure of our rural county is crucial.

In these unprecedented times, it has become even more apparent that communication in all forms is paramount. Our ability to work through the virtual world continues to be significant to keeping our communities moving forward. Education, telehealth and public safety are priorities at the forefront of our recovery. Much of our continuing education and certification as first responders has transitioned to an online format due to travel restrictions and limitations on classroom learning due to social distancing requirements, and the limited broadband connectivity at both our homes and public safety facilities makes access to those courses difficult, if not impossible.

We believe that this project meets the criteria of the CARES Act and would greatly benefit Owyhee County.

Thank you for your time and consideration.

Sincerely

Betty Ackerman  
Administrator  
Marsing Ambulance Service  
208-407-0300  
marsingambulance@cableone.net



## MRW FIRE RESCUE EMS

Murphy Reynolds Wilson Fire District  
11606 State Hwy 78  
Givens Hot Springs, ID 83641



Subject: Support for Idaho Broadband Grant

11 July 2020

As a representative of Public Safety in Owyhee County, the Murphy Reynolds Wilson Fire District is pledging our support for Owyhee County's applications for the Murphy to Marsing Broadband to Households Critical Infrastructure Project, and the Owyhee County Public Safety Critical Infrastructure Project.

Having high-speed broadband connections to our Fire and EMS Facilities is critical as we move forward. The new broadband will fulfill public safety connectivity needs in the future. We support the application to bolster our broadband capacity for the benefit of our community. Increasing the accessibility and capacity of broadband between our facilities housing Emergency Services Dispatch, Law Enforcement, Fire, and Emergency Medical services and critical infrastructure of our rural county is crucial. Our current DSL is not adequate to meet our training and operational needs. We cannot stream our emergency medical or fire training, or participate in any video conferences with state or federal agencies.

It has become even more apparent that communication in all forms is paramount for our ability to work through the virtual world. Education, telehealth and public safety are priorities at the forefront of our recovery. Much of our continuing education and certification as first responders has transitioned to an online format due to travel restrictions and limitations on classroom learning due to social distancing requirements, and the limited broadband connectivity at both our homes and public safety facilities makes access to those courses difficult, if not impossible.

We believe that this project meets the criteria of the CARES Act and would greatly benefit Owyhee County.

Thank you for your time and consideration.

FOR THE COMMISSIONERS:

Louis K. Monson  
Deputy Chief,  
District Treasurer,  
EMS Supervisor

# State of Idaho Public Broadband Grant Application: Households

Applicant	Angela Barkell
Applicant ID	APP-004158
Company Name	Owyhee County
Recipient Address	Owyhee County NA Murphy, ID 83650
Phone	(208) 495-2421
Email	abarkell@co.owyhee.id.us
Amount Requested	\$2,730,174.00
Status	Submitted
Funded	<input type="checkbox"/>

Application Title: Owyhee County Broadband to Households Critical Infrastructure Project 1 - Murphy to Marsing

## Applicant Information

**NOTICE: Grant applications, challenges, and responses to challenges will be posted to the Idaho Department of Commerce website**

### Purpose:

#### 1. Program Description

The CARES Act funding received by the State of Idaho will fund projects across the state that create and retain local jobs and result in purposeful outcomes, including distance learning, telehealth public safety, commerce, and overall well-being. This CFAC Broadband Grant initiative grant program (the “Program for Households”) is designed to meet the CARES Act criteria, and help Idaho rebound from the COVID-19 public health emergency. Approximately 70% of the \$50 million received by the Idaho Department of Commerce will be allocated to this program aimed at households that lack access to broadband.

**• Projects must be completed and grant funds requested and dispersed before December 15th, 2020.**

**Question:** Contact information of applicant: Name Title Mailing Address Email Phone

Angela Barkell, Clerk of the District Court, P.O. Box 128, Murphy, Idaho 83650,  
abarkell@co.owyhee.id.us, 208-495-2421

**Question:** List the cities/communities where the project(s) will take place.

Murphy, Idaho; Guffey, Idaho; Melba, Idaho; Wilson, Idaho; Givens Hot Springs, Idaho; Marsing, Idaho

**Question:** Enter the zip code(s) where the project will take place.

83650, 83641, 83641, 83641, 83641, 83639

**Question:** Enter name and title of designated grant administrator

Polly Hulsey, Economic Development Manager, Region IV Development Association (RIVDA)

**Question:** Enter the email of the designated grant administrator

phulsey@csi.edu

**Question:** Enter the phone number of the designated grant administrator

208.732.5727 extension 3011

## Project Requirements

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### Eligible Projects

Projects must meet the following eligibility criteria: The project must:

- Be infrastructure investment, associated equipment, and accessories related to broadband as defined by the FCC: speeds of 25 Mbps download and 3 Mbps upload.
- Meet the CARES Act criteria, which is designed to address key areas of public health and safety by improving opportunities to telework, facilitate distance learning, and improve public safety
- Be a project that serves underbuilt areas and does not overbuild existing broadband service. Underbuilt areas are defined as locations where less than fifty percent (50%) of households in the project area have access to broadband service.
- Include only new broadband service to be installed, owned, and operated by for-profit companies, or membership owned cooperative corporations as defined in [Idaho Code Title 30, Chapter 30](#) that provide broadband services to the public.
- Provide broadband service within the applicant's proposed project area.
- Be completed, operable, paid for, and submitted to the Idaho Department of Commerce for payment no later than December 15, 2020.
- Include broadband infrastructure and equipment costs meeting CARES Act criteria. Satellite service is not eligible for grant award.

**Question:** Does your project meet the CARES Act criteria?

Yes

No

**Question:** Does your project provide a minimum of 25 Mbps Download and 3 Mbps Upload as outlined by the CFAC Committee Recommendation?

Yes

No

**Question:** Does your project provide service to areas where less than 50% of households in the project area has broadband as outlined by the CFAC Committee Recommendation?

Yes

No

**Question:** Include only new broadband service to be installed, owned, and operated by for-profit companies, or membership owned cooperative corporations as defined Idaho Code Title 30, Chapter 30 that provide broadband services to the services to the public.

Yes

No

**Question:** I understand that the State of Idaho will provide no funding and have no obligations for projects that fail to be completed by December 15, 2020.

Yes

No

## Scored Criteria

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**Question:** Provide an overview of the project including why the project is important and will address broadband needs of the community.

According to BroadbandNow, 81.2% of Idahoans have access to broadband speeds of 25 mbps or higher, but only half that percentage of Owyhee Countians (40.9%) has equal access. Broadband is no longer a luxury for binge-watching TV. This access is the only opportunity residents of Murphy, 32 miles from the nearest doctor or hospital, will have to talk face-to-face with a medical provider or mental health professional without leaving home. The negative impacts of social isolation caused by COVID-19 are well documented, as are its consequences to mental health and well-being. The isolation is even greater for those who are

unable to utilize video chat and video conference technology due to lack of broadband. Citizens in Owyhee County have expressed how devastating this lack of connections has been, from being unable to video chat with family, to an inability to access online education for their children, to losing income because their lack of access to broadband does not enable them to telecommute or run their home-based business. This is an example of the Digital Divide, and without this ability to access social supports and work and learn from home, lack of broadband actually becomes hazardous to our citizens.

This project will lay the foundation for a fiber-based, unlimited capacity broadband service in Owyhee County. By running fiber optics and connecting micro-Points of Presence, or micro-POPs (small towers that transmit a powerful LTE broadband signal) to the fiber, residents and businesses along the 30-mile project route will gain access to broadband speeds. Those who have line of sight to any of the towers and are within an average of eight (8) miles from a tower can expect to receive speeds of at least 25 mbps download/3 mbps upload, and those within an average of four (4) miles from a tower can expect to receive speeds of at least 50 mpbs download at time of project completion. This fiber foundation will provide the availability of FTTH (Fiber to the Home) connectivity post project completion. FTTH connections are not constrained by the limitations of over the air wireless technology, and can provide speeds upwards of 1 Gbps, or 1000 Mbps. By laying the fiber foundation today, we will be future-proofing broadband connectivity for tomorrow, and we will be prepared for the next generation of broadband.

Without the support of this grant, our rural population will continue to be underserved, as there is not enough revenue generated by the population to support fiber installation. This grant will allow these rural Idaho residents, students, and businesses the same digital access and opportunities as those in our urban areas, and will enable rural Owyhee County residents to thrive in a digital world with no borders. Local economic opportunities will increase directly proportional to broadband access. Without this optical fiber and local broadband, the citizens of Owyhee County are victims of the Digital Divide, with the world passing them by.

**Question:** Is your project in an area where 50% of households is in an unserved area?

Yes

No

**Question:** Is your project in an area where more than 50% of households is in an underserved area?

Yes

No

**Question:** Is the project in a town/city/municipality of less than 3,000 people?

Yes

No

**Question:** How many households may receive broadband service because of this project?

2477.00

**Question:** Does the project address a need as identified in a local or regional broadband plan? If yes, please describe.

Owyhee County agrees with the Governor's Broadband Task Force findings, which have become more critical as a result of COVID-19 & its impact on commerce, education, & the ability of private business & governmental entities to keep workers employed. "Access to broadband & high-speed internet services is an urgent priority for Idahoans in all corners of the state. A robust, comprehensive & dynamic broadband plan for Idaho is imperative in order to identify priorities & secure funding... recommendations... aimed at providing reliable broadband access to all residents & businesses in Idaho... Addressing solutions for the unserved areas in rural Idaho is the highest priority."

Owyhee County's Multi-Jurisdictional Hazard Mitigation Plan seeks to, "Improve limited cell service in rural areas of the county, & implement backup communication systems." Current coverage limits are detrimental to work from home, distance learning & public safety response key to dealing with COVID-19. (See attached Plan)

## Additional Requirements

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Upload Supporting Documents for scope of project including maps, site plans, studies, or photographs, demonstrating the location of the project.

### Project Attachment Templates:

[CARES Act Certification](#)

[Grant Budget Template](#)

[Project Schedule Form](#)

[Letters of Support/Community match template](#)

**Question:** Estimated total project cost?

2725174.00

**Question:** List the underserved and unserved community facilities (schools, libraries, government offices, hospitals, public safety, etc.) within the proposed project area.

The project would serve the Hope Christian Academy & Hope House in Marsing; the County Courthouse Complex containing the County Offices of Commissioners, Clerk, Courts, Sheriff, Prosecuting Attorney, Assessor, Treasurer, Planning and Zoning, Building Inspector, Road and Bridge Department. It would also provide service to The Owyhee County Historical Society and Museum and within this facility is the Owyhee County Emergency Operations Center. It would serve a primary station of the Murphy/Reynolds/Wilson Fire and Ambulance Service. It would also serve the Idaho Transportation Department Road facility located proximate to Murphy.

**Question:** What is the average cost per household of new broadband service based on this project cost?

Residential Fiber options are: 50M \$34.95 100M \$64.95; LTE access options are 5M – \$34.95

10M – \$54.95 15M – \$64.95 20M – \$74.95 25M - \$84.95 50M - \$104.95

**Question:** What is the maximum broadband speed that will be provided by the project?

1000 mbps download, 1000 mbps upload

**Question:** Are permits, permissions, rights of way and zoning requirements readily available in order for the project to be completed and paid for by December 15, 2020?

Yes

**Question:** If answered no in previous question, please describe. If the project does not require any of the above answer N/A.

N/A

**Question:** Describe how the project will be administered, audited for completion, and accounting performed.

The County will be contracting with Region IV Development, a non-profit organization, to provide project administration, upon award of the grant. The County's designated liaisons with RIVDA are Jerry Hoagland, County Chairman; Angela Barkell, County Clerk; Sarah Kipper, 911 Coordinator. The Administrator's designated liaison with the County is Georgia Dimick, Polly Hulsey, Jeff McCurdy, Brandy Lowe, and Brenda Hastreiter. RIVDA shall perform the following as Grant Administrator 1. Project Planning and pre-development a. Meet with the County, Internet Service Providers, the Department and other stakeholders to discuss grant conditions, rules, and requirements. b. Explain to stakeholders various funding program requirements. Detailing eligibility, application process, funding requirements, timelines, etc. c. Working with stakeholders to define "the project", for which funding will be applied for. d. Review data relative to project beneficiaries and information provided by Internet Service Providers in preparation of the application. e. Assisting the applicant in the application and submittal process. f. Assist with the preparation of the grant proposal for submittal to the Idaho Department of Commerce. 2. Project Implementation Activities: Assist the County in fulfilling the conditions of the grant program. Coordinate efforts of the County, Internet Service Providers, Idaho Department of Commerce, and other stakeholders. Assist in preparing and submitting required reports to Idaho Department of Commerce and other stakeholders. 3. Financial Management: Assist the County with establishing project financial management processes and procedures. Prepare payment requests for funding agency approval and facilitate the correction of errors or problems that are identified. Maintain a record of project expenditures and document that the County is properly disbursing funds in accordance with program requirements. Provide progress updates to stakeholders as requested. Note: These services do not replace the County and ISP providers responsibility to work with their financial teams to ensure accuracy in disbursements, etc. 4. Project Close-out: Documentation that the County has met the objective of the grant program and contractual performance requirements. Completing closeout documents for review and signature. Ensure all project and close out documents are submitted to the Idaho Department of Commerce. Ensure requested documents, concerns, and findings are addressed and resolved. Securing the Department's approval to close out.

**Question:** Include any other information regarding why your project should be considered for funding.

Without this grant, no providers will bring fiber to Murphy as the installation is cost prohibitive



and would not generate enough income for the provider to justify the expense. Bringing fiber to Murphy will allow for far better connections and communications for local government and public safety as well. Tekfinity will provide a private MPLS high-speed network between our local government and public safety facilities in Homedale, Marsing, Murphy, and Grandview, which will provide a private secure network with less than 5 ms of latency which will allow those working in our remote offices the same experience as those working in the main facilities where the servers reside. The world of public safety is moving quickly towards Next-Generation 911 (NG911). But Owyhee County, and the town of Murphy - where the Owyhee County 911 center is located, is constrained and limited by copper-based telecommunications services. The existing 911 telephone trunks and data links are 40-year-old technology, and are provided on copper lines. Presently, without optical fiber and broadband services, the Owyhee County 911 center will not be able to move forward with NG911. This copper constraint also limits Owyhee County 911 from participating in shared services grants for Host-Remote technical systems, as the connectivity on copper is not sufficient. This also prevents Owyhee County from participating in regional public safety grant opportunities. NG911 also requires an Emergency Services IP Network (ESINet) for delivering voice, video, and pictures into 911, and for interconnecting public safety responders. None of this can be done on existing copper facilities. This new fiber will enable us to look at other 911 Service Providers or other NG911 Service Providers which would allow for future upgrades to our 911 system. Additionally, the LTE towers can be used to enable our first responders—Law Enforcement, Fire, and EMS providers—to connect via 802.11 (standard WiFi), or mobile CBRS data terminals using their in-vehicle computers in areas where they cannot connect to Verizon. These connections are not currently possible in many areas along the project route, and adding these additional layers of connectivity will greatly enhance citizen and responder safety and responder capabilities.

**Question:** Upload Supporting Documents for scope of project including maps, site plans, studies, or photographs, demonstrating the location of the project.

[murphy-map-of-project.pdf](#) (7/15/2020 8:35 AM)  
[MOU Project 1.pdf](#) (7/14/2020 3:50 PM)  
[Pershall to Murphy Parcels within4Miles.xlsx](#) (7/14/2020 9:59 AM)

**Question:** Upload the completed Grant Budget Template for the project that outlines the various costs.

[Murphy-Idaho-Cares-Act-Broadband-Grant-Budget.pdf](#) (7/14/2020 3:33 PM)

**Question:** Complete the Project Schedule Form

[Idaho-Cares-Act-Broadband-Grant-Project-Schedule-Owyhee County.xlsx](#) (7/15/2020 12:34 PM)  
)

**Question:** Include any Letters of Support or Community Match from the community.

[Letter of Support Barkell Givens.pdf](#) (7/15/2020 4:44 PM)  
[KWC - Letter of Support - Resident Marsing.pdf](#) (7/14/2020 9:07 PM)  
[Letter of Support - Bonnie Plants07102020.pdf](#) (7/11/2020 4:31 PM)  
[Letter of Support Business and Resident Tredeau Melba.docx](#) (7/11/2020 4:30 PM)  
[Letter of Support Hinton.pdf](#) (7/11/2020 4:28 PM)  
[Letter of Support- Express Farms07102020.pdf](#) (7/11/2020 4:28 PM)  
[Letter of Support Bailey.docx](#) (7/11/2020 4:27 PM)  
[Letter of Support Ackerman.docx](#) (7/11/2020 4:27 PM)

**Question:** Provide a copy of your Community Broadband Plan if applicable.

[Extract from Hazard Mitigation Plan for Owyhee County.pdf](#) (7/15/2020 3:53 PM)

**Question:** Provide a notarized CARES Act Certification that this project meets the CARES Act criteria.

[Notarized CARES Act Certification.pdf](#) (7/14/2020 10:08 PM)

**Question:** Provide commitments from community anchor institutions or public safety networks which will utilize your service if the project is funded.

[Project 1 Courthouse.pdf](#) (7/15/2020 4:42 PM)

[Letter of Support Hope Christian Academy.pdf](#) (7/15/2020 4:42 PM)

[Public Safety Sgt. Bishop.docx](#) (7/15/2020 4:41 PM)

[Project 1 Sheriff Grant.pdf](#) (7/15/2020 4:40 PM)

[Project 1 Coroner.pdf](#) (7/15/2020 4:40 PM)

[Marsing Fire.pdf](#) (7/15/2020 2:56 PM)

[Project 1 Jail Lt.pdf](#) (7/15/2020 2:51 PM)

[Prosecuting Attorney Marsing to Murphy Project 1 Support Letter.pdf](#) (7/15/2020 2:47 PM)

[Marsing to Murphy Museum.docx](#) (7/15/2020 2:35 PM)

[Road & Bridge Project 1.docx](#) (7/15/2020 12:59 PM)

[Owyhee County Emergency Manager.pdf](#) (7/15/2020 12:43 PM)

[Marsing School Superintendant.pdf](#) (7/15/2020 12:39 PM)

[HH - Letter of Support - Hope House Marsing.pdf](#) (7/14/2020 9:07 PM)

[Letter of Support Marsing Ambulance.doc](#) (7/11/2020 4:35 PM)

[Letter of Support Household MRW.docx](#) (7/11/2020 4:32 PM)

**Question:** Map of the project area demonstrating the insufficient availability of broadband service (25/3Mbps) in the proposed service area where less than 50% of households have access to broadband.

[Murphy Speedtest Map.pdf](#) (7/14/2020 10:07 PM)

[murphy-broadband-map.pdf](#) (7/14/2020 9:08 PM)

**Question:** Map of the project area which includes the number of households served, the broadband speeds provided, and the technology used to provide that service.

[murphy-map-of-project.pdf](#) (7/15/2020 8:35 AM)

## Signature

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Your identity has been authenticated through the login process with a unique email address and password available only to you. You agree that by typing your name, title and date below, you are electronically signing the application. By electronically signing the application, you acknowledge and represent that you understand and accept all the terms and conditions stated within the application and declare that the information provided is true and that the documents you are submitting in support of your application are genuine and have not been altered in any way.

**Question:** Type your name.

Angela Barkell

**Question:** Type your title.

Owyhee County Clerk

**Question:** Type the submission date.

7/15/2020

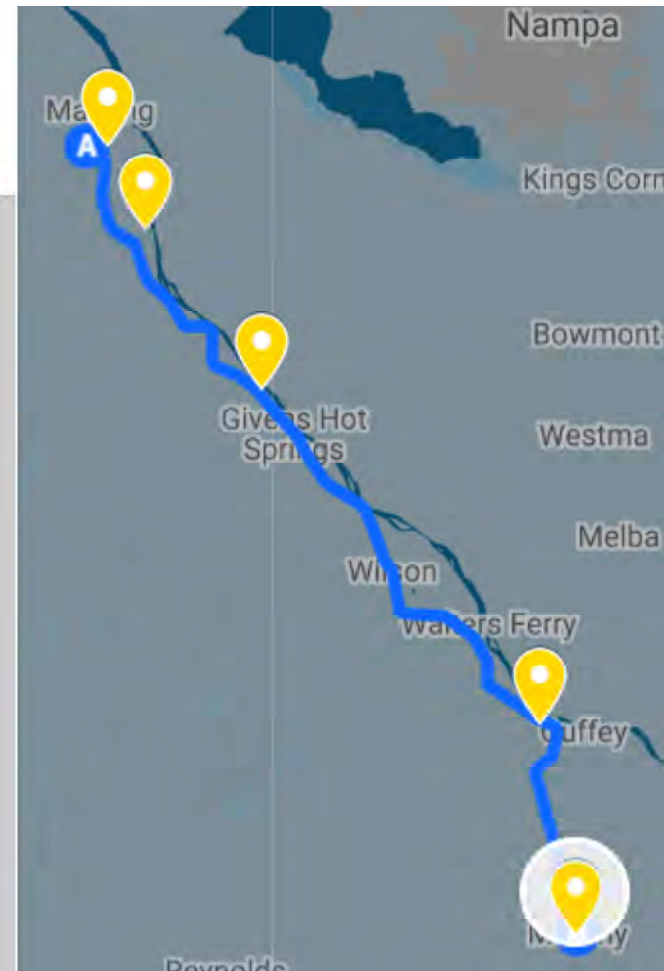
## Idaho CARES Act Broadband Grant – Project Schedule

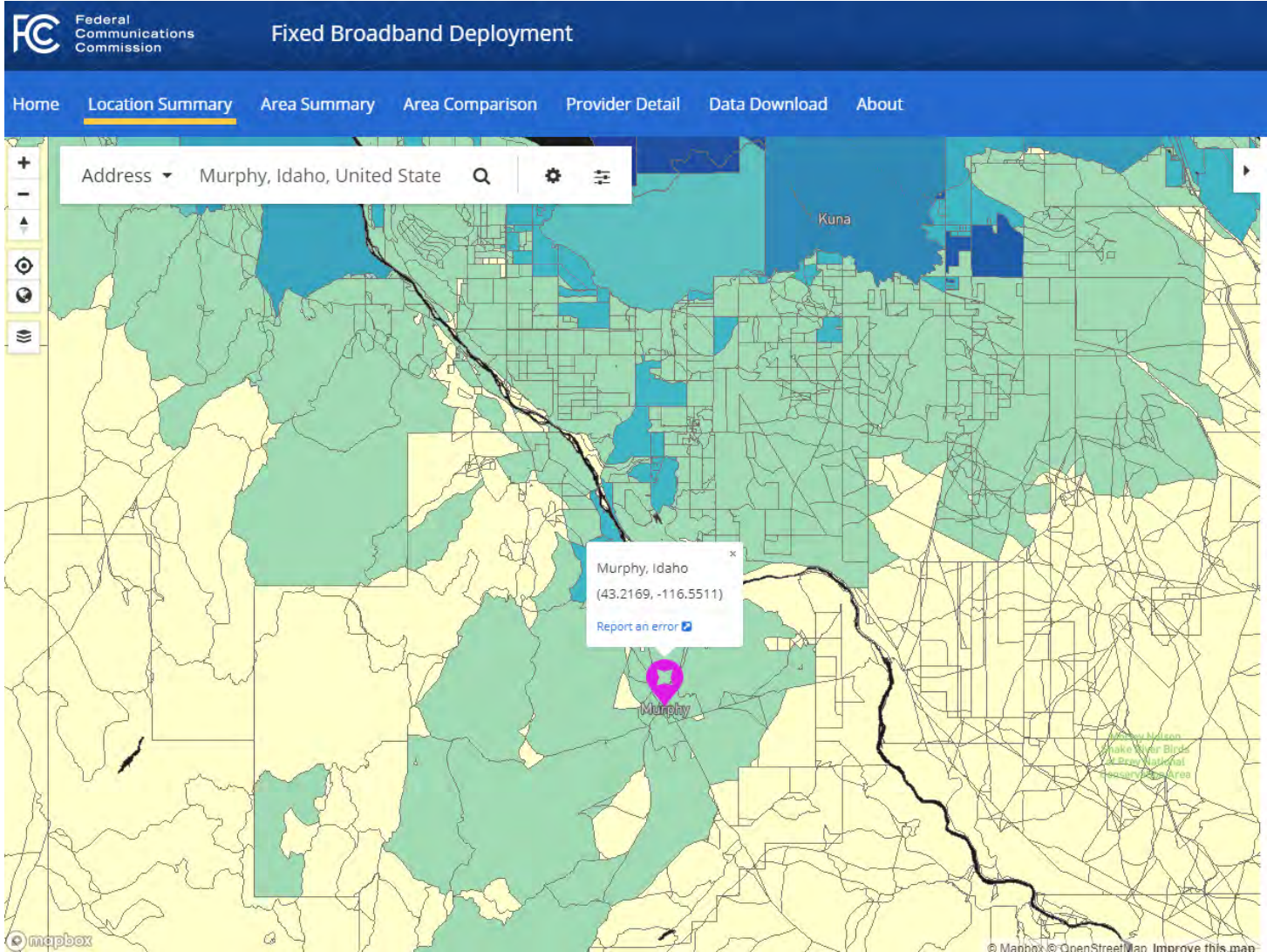
Activity	Responsible Party
Pre-Project Meetings	RIVDA/TEKFINITY/OWYHEE COUNTY
MOU Signed	Board of Owyhee County Commissioners Chairman (BOCCC)
Certification Signed	BOCCC
Grant Submitted	Owyhee County
Project Start-up	TEKFINITY
50% Completion	TEKFINITY
Substantial Completion	TEKFINITY
100% Completion	TEKFINITY
Operable	TEKFINITY
Documents submitted	RIVDA
Final Closeout	RIVDA/ISP/BOCCC

Start Date	End Date
7/6/2020	Ongoing
7/13/2020	7/13/2020
7/13/2020	7/13/2020
7/15/2020	7/15/2020
8/1/2020	Ongoing
-	9/30/2020
-	10/15/2020
11/1/2020	11/1/2020
11/1/2020	11/1/2020
11/16/2020	12/15/2020
-	12/15/2020

Houses on Project route and their current download/upload speeds, as measured by [broadbandnow.com/speedtest](http://broadbandnow.com/speedtest). (See Letters of Support for further.)

- 📍 Hope House 3.76/1.76
- 📍 10550 H78, Melba 7.5/1.72
- 📍 6056 H78, 4.75/1.49
- 📍 17033 H78 Satellite Only/0
- 📍 **17050 Pedracini Satellite On...**





Provider	Tech	Down (Maps)	Up (Maps)
ViaSat, Inc.	Satellite	35	3
Safelink Internet	Fixed Wireless	25	5
Hughes Network Systems, LLC	Satellite	25	3
VSAT Systems, LLC	Satellite	2	1.3
CenturyLink, Inc.	ADSL	1.5	0.896

### All Providers Reporting Service

Census block ID: 160739502001937

### Number of Fixed Residential Broadband Providers



### Broadband

**Technology** ADSL, Cable, Fiber, Fixed Wireless, Other  
**Speed** ≥ 25/3 Mbps  
**Date** June 2019 (latest public release)

**Idaho CARES Act Broadband Grant Budget**

<b>Line Item</b>	<b>Grant Dollars</b>				<b>Total</b>
<b>Totals</b>					





OWYHEE COUNTY BOARD OF COMMISSIONERS  
COURTHOUSE P.O. BOX 128 MURPHY, ID 83650-0128  
TELEPHONE (208) 495-2421

District 1 –Chairman - Jerry Hoagland-P O Box 128, Murphy, ID 83650 318-8308  
District 2 –Kelly Aberasturi-P O Box 128, Murphy, ID 83650 249-4405  
District 3 –Joe Merrick-P O Box 128, Murphy ID 83650 250-9005

State of Idaho Broadband Grant  
CARES Act Certification

STATE OF IDAHO, COUNTY OF OWYHEE

The undersigned, Jerry L. Hoagland, representing Owyhee County, Idaho 20381 State Highway 78 | Murphy, ID 83650, hereby swears (affirms) that:

1. I am Chairman of the Board of County Commissioners and thereby authorized to make these statements.
2. I have personal knowledge of the facts herein, and can testify completely thereto.
3. The purpose of this statement is to assure the Idaho Department of Commerce that the project will meet the CARES Act Criteria including

- i. Expenses to facilitate distance learning, including technological improvements, in connection with school closings to enable compliance with COVID-19 precautions.
- ii. Expenses to improve telework capabilities for public employees to enable compliance with COVID-19 public health precautions.

The costs covered are necessary expenditures to be incurred 1) due to the public health emergency with respect to the Coronavirus Disease 2019 (COVID-19); 2) were not accounted for in the budget most recently approved as of March 27, 2020 (the date of enactment of the CARES Act) for Owyhee County; and 3) will be incurred during the period that begins on March 1, 2020, and ends on December 30, 2020

Jerry Hoagland  
Signature

7/13/20  
Date

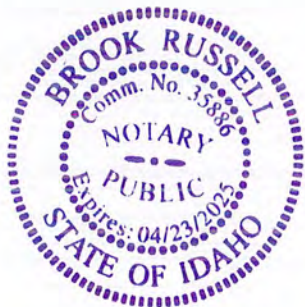
SUBSCRIBED AND SWORN before me on this 13<sup>th</sup> day of July 2020

Brook Russell

Notary Public for Idaho

Residing at Homedale, ID

Commission expires April 23, 2025



*Perry S. Grant*

SHERIFF



*J. Lynn Bowman*

CHIEF DEPUTY

---

P.O. BOX 128 · MURPHY, ID 83650

OFFICE 208-495-1154

7/14/2020

To: Whom it may Concern

From: Perry Grant, Owyhee County Sheriff

Re: Letter of Support

As a representative of Public Safety in Owyhee County, the Owyhee County Sheriff's Office is pledging our support for Owyhee County's application for the Murphy to Marsing Broadband to Households Critical Infrastructure Project.

Having high-speed broadband connections to our Public Safety Facility is critical as we move forward in the recovery process, as well as fulfilling public safety connectivity needs in the future. This project will increase the broadband accessibility and capacity to the critical infrastructure facilities identified in the project.

Thank you for your time and consideration.

Perry S. Grant

A handwritten signature in black ink, appearing to be "Perry S. Grant", written in a cursive style.

Owyhee County Sheriff

Marsing Fire Department

303 Main Street

Marsing, Idaho 83639

RE: Owyhee County

Letter of Support

Dear Chairman Hoagland:

As an emergency service provider in rural Owyhee County, I strongly support the Idaho Broadband Grant application through the CARES (The Coronavirus Aid, Relief, and Economic Security) Act funding in our community and am very excited for the opportunities this funding will provide to install broadband service options for our rural residents.

I understand the need to provide the businesses and residents of Owyhee county with highspeed and reliable broadband services.

Accessing online training quicker and with more stability in the connection would greatly aid our department members to continue their required training.

A more up to date broadband service available to us would also increase the effectiveness of our future plans to accomplish mobile computer aided dispatch.

Thank you in advance for taking the time to read this letter of support.

Sincerely,

A handwritten signature in black ink, appearing to read 'Lynn Bowman', with a long, sweeping horizontal line extending to the right.

Lynn Bowman

Assistant Chief-Marsing Fire Department

**MEMORANDUM OF UNDERSTANDING  
BETWEEN OWYHEE COUNTY AND TEKFINITY, LLC. FOR IDAHO CARES ACT  
BROADBAND TO HOUSEHOLD GRANT PROJECT 1**

**1. Parties.** This Memorandum of Understanding (hereinafter referred to as “MOU”) is made and entered into by and between Owyhee County, herein referred to as “County”, whose address is 20381 State Highway 78, Murphy, Idaho, and Tekfinity, LLC, an Internet Service Provider (ISP) whose address is 10350 West Emerald Street, Boise, Idaho, herein referred to as the “ISP”.

WHEREAS, the County is making application to the Idaho Department of Commerce, herein referred to as "the Department", for the receipt of grant funds under the Idaho CARES\* Act Broadband Grant Program, herein referred to as the “Grant Program” for the purpose of improving broadband access in unserved and underserved areas of the community; and

WHEREAS, the County is currently considering whether to manage the grants or to contract for grant management services with Region IV Development Association, Inc., herein referred to as Grant Manager, to provide grant project administrative services to help the County comply with the conditions of Grant Program.

**2. Purpose.** The purpose of this MOU is to establish the terms and conditions under which the County and ISP will partner together to enhance broadband services in the community and complying with the conditions of the Grant Program.

Broadband to Household Grant Project 1 Marsing to Murphy spans from the intersections of State Highway 78 and Pershall Road in Marsing, Owyhee County Idaho, 83639, to 20381 State Highway 78, Murphy, Owyhee County, Idaho, 83650.

The CARES Act funding received by the State of Idaho will fund projects across the state that create and retain local jobs and result in purposeful outcomes, including distance learning, telehealth public safety, commerce, and overall well-being. The Grant Program initiative is designed to meet the CARES Act criteria by expanding broadband services to unserved and underserved areas of the State, and help Idaho rebound from the COVID19 public health emergency. Projects under this program must meet the following eligibility criteria:

- A. Be infrastructure investment, associated equipment, and accessories related to broadband as defined by the FCC: with speeds, at a minimum of 25 Mbps download and 3 Mbps upload.
- B. Meet the CARES Act criteria, which is designed to address key areas of public health and safety by improving opportunities to telework, facilitate distance learning, and improve public safety.
- C. Be a project that serves underbuilt areas and does not overbuild existing broadband service. Underbuilt areas are defined as locations where less than fifty percent (50%) of households in the project area have access to broadband service.
- D. Include only new broadband service to be installed, owned, and operated by for-profit companies, or membership owned cooperative corporations as defined in Idaho Code section § 30-30-103 that provide broadband services to the public.

\* The Coronavirus Aid, Relief, and Economic Security (CARES) Act

- E. Provide broadband service within the applicant's proposed project area.
- F. Be completed, operable, paid for, and submitted to the Idaho Department of Commerce for payment no later than December 15, 2020.
- G. Include broadband infrastructure and equipment costs meeting CARES Act criteria. Note: Satellite service is not eligible for grant award.

**3. Term of MOU.** This MOU is effective \_\_\_\_\_ and shall remain in full force and effect for not longer than \_\_\_\_\_. This MOU may be terminated, with or without cause, by either party upon \_\_\_\_\_ written notice, which notice shall be delivered by hand or by certified mail to the address listed above.

**4. Responsibilities of County.** The County shall provide the following in connection with this agreement:

- A. The County is an eligible applicant of the Grant Program and will apply for financial assistance through the grant program to upgrade broadband infrastructure. The County will prepare and submit an application to the Department for funding through the Grant program.
- B. Submit all reports and updates to the Department as required by the grant program.
- C. At the completion of construction and after the ISP has certified that the project is complete, operational, and in compliance with the Grant Program requirements, the County will submit a funding reimbursement request to the Department for eligible project expenses and facilitate the correction of errors or problems that are identified with associated documentation. This must be completed no later than November 30, 2020.
- D. The County will reimburse the ISP for eligible expenses associated with the Grant Program with funds obtained through the Department.
- E. Maintain a record of project expenditures in accordance with program requirements.

**5. Responsibilities of ISP.** The ISP shall provide the following responsibilities in connection with this agreement:

- A. Pre-Application – Assist the County in the preparation of the grant application by providing the following information:
  - 1) Evidence that the proposed service area currently has 25Mbps Download and 3 Mbps upload speeds or less
  - 2) Develop a scope of work, project costs, and a project schedule
  - 3) Maps of proposed service area, site plans, studies, and photographs that demonstrate the location of the project.
  - 4) Help describe the benefits of the project
  - 5) Identify the number of households in the proposed service area
  - 6) Provide evidence that the project serves an underbuilt area and does not overbuild existing broadband service as described in the grant conditions. Underbuilt areas are defined as locations where less than fifty percent (50%) of households in the project area have access to broadband service. Without documenting this, the project would be ineligible.
  - 7) Determine the percentage (%) of homes that are less than the minimum grant requirement (25/3 Mbps)

\* The Coronavirus Aid, Relief, and Economic Security (CARES) Act

- 8) Identify the number of households that may be able to receive broadband services because of the project
- 9) Provide evidence that the ISP is a for-private company or membership owned cooperative corporation.
- 10) Describe the maximum speed provided by the ISP once the project is completed?
- 11) List of community anchor institutions or public safety networks which will utilize your services if the project is funded.
- 12) Maps – (provide all maps electronically in PDF format)
  - i. Map of the project area demonstrating the insufficient availability of broadband service (25/3Mbps) in the proposed service area where less than 50% of households have access to broadband.
  - ii. Map of the project area which includes the number of households served, the broadband speeds provided, and the technology used to provide that service.
  - iii. Project map identifying existing and proposed infrastructure systems
- 13) Other information deemed necessary and appropriate for the purpose of presenting a complete grant application.

B. Post award (if applicable)

- 1) Purchase, install, and/or construct the broadband infrastructure as outlined in the scope of work submitted to and approved by the Department.
- 2) Complete construction by November 30, 2020.
- 3) Provide regular updates on the progress of the project to the County, their Grant Manager, and the Department.
- 4) Provide required information and documents necessary for the County and their Grant Manager to provide timely and accurate reports to the Department.
- 5) Provide documentation of all financial expenditures and other associated information for reimbursement to the County and their Grant Manager.

**6. General Provisions**

- A. **Amendments.** Either party may request changes to this MOU. Any changes, modifications, revisions or amendments to this MOU which are mutually agreed upon by and between the parties to this MOU shall be incorporated by written instrument, and effective when executed and signed by all parties to this MOU. Any project amendments cannot impede meeting the project deadline of December 15, 2020.
- B. **Applicable Law.** The construction, interpretation and enforcement of this MOU shall be governed by the laws of the State Idaho. The courts of the State of Idaho shall have jurisdiction over any action arising out of this MOU and over the parties, and the venue shall be the Third Judicial District of Owyhee County, State of Idaho.
- C. **Entirety of Agreement.** This MOU, consisting of four (4) pages, represents the entire and integrated agreement between the parties and supersedes all prior negotiations, representations and agreements, whether written or oral.
- D. **Severability.** Should any portion of this MOU be judicially determined to be illegal or unenforceable, the remainder of the MOU shall continue in full force and effect, and either party may renegotiate the terms affected by the severance.

\* The Coronavirus Aid, Relief, and Economic Security (CARES) Act

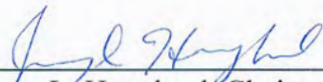
- E. **Sovereign Immunity.** Owyhee County and the Owyhee County Sheriff's Office and their respective governing bodies do not waive their sovereign immunity by entering into this MOU, and each fully retains all immunities and defenses provided by law with respect to any action based on or occurring as a result of this MOU.
- F. **Third Party Beneficiary Rights.** The parties do not intend to create in any other individual or entity the status of a third-party beneficiary, and this MOU shall not be construed so as to create such status. The rights, duties and obligations contained in this MOU shall operate only between the parties to this MOU and shall inure solely to the benefit of the parties to this MOU. The provisions of this MOU are intended only to assist the parties in determining and performing their obligations under this MOU. The parties to this MOU intend and expressly agree that only parties signatory to this MOU shall have any legal or equitable right to seek to enforce this MOU, to seek any remedy arising out of a party's performance or failure to perform any term or condition of this MOU, or to bring an action for the breach of this MOU.


7. **Signatures.** In witness whereof, the parties to this MOU through their duly authorized representatives have executed this MOU on the days and dates set out below, and certify that they have read, understood, and agreed to the terms and conditions of this MOU as set forth herein.

The effective date of this MOU is the 13<sup>th</sup> day of July, 2020.

**COUNTY OF OWYHEE**


**INTERNET SERVICE PROVIDER**

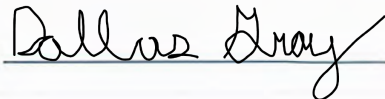
By:   
Jerry L. Hoagland, Chairman

By:   
Nate Bondelid, President  
Tek-Hut, Inc / Tekfinity, LLC

7/13/20  
Date

7/14/20  
Date

Attest:   
Rosalind Russell  
Deputy Clerk

Attest: 

**OWYHEE COUNTY**

P.O. Box 313 Marsing, ID 83639

Aaron Tines, Coroner



**CORONER'S OFFICE**

(208) 896-4266

July 15, 2020

To: Whom it may Concern

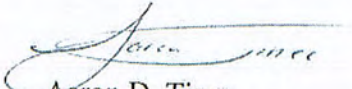
From: Aaron D. Tines, Owyhee County Coroner

Re: Letter of Support

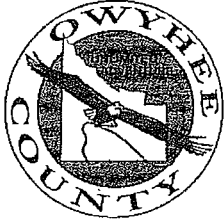
As a representative of Owyhee County, the Owyhee County Coroner's Office is pledging our support for Owyhee County's application for the Marsing to Murphy Broadband to Households Critical Infrastructure Project 1.

Having high-speed broadband connections are critical as we move forward in the recovery process, as well as fulfilling public safety connectivity needs in the future. This project will increase the broadband accessibility and capacity to the critical infrastructure facilities identified in the project.

Thank you for your time and consideration.

  
Aaron D. Tines  
Owyhee County Coroner





**ANGELA BARKELL**  
**OWYHEE COUNTY**  
**CLERK OF THE DISTRICT COURT**  
**EXOFFICIO AUDITOR RECORDER**

**TRINA AMAN**  
**CHIEF DEPUTY**  
taman@co.owyhee.id.us

20381 State Hwy 78  
PO Box 128  
Murphy, Idaho 83650  
abarkell@co.owyhee.id.us

July 15, 2020

To: Whom it may Concern

From: Angela Barkell, Owyhee County Clerk of the District Court, Ex-officio Auditor and Recorder

Re: Letter of Support

As a representative of Owyhee County, the Clerk's office is pledging our support for Owyhee County's application for the Marsing to Murphy Broadband to Households Critical Infrastructure Project 1.

Having high-speed broadband connections are critical as we move forward in the recovery process, as well as fulfilling public safety connectivity needs in the future. This project will increase the broadband accessibility and capacity to the critical infrastructure facilities identified in the project.

Thank you for your time and consideration.

  
Angela Barkell

On May 31, 2018 FEMA Approved the Hazard Mitigation Plan of Owyhee County Idaho. The following is extracted from the pages 194 and 195 of that document, which is too large to upload to the grant application site. The complete plan is available for review on the Owyhee County web page at [owyheecounty.net](http://owyheecounty.net).

The plan addresses additional mitigation actions needed that were identified by the members of the planning committee. In the list below, we have used bold type to emphasize the action related to the requested broadband grant applications. The mitigation action to “implement backup communication systems” would be supported by the expansion of broadband access to a large segment of the population.

#### 6.4.3 Additional Mitigation Actions

All jurisdictions were provided the opportunity to propose mitigation actions. Some of these discussed mitigation actions were not formally adopted or scored, but for future planning purposes and HMP updates, the following lists the additional proposed mitigation actions initially discussed by the committee and later considered and broadened to county-wide issues by the Emergency Manager and the Planning and Zoning Administrator. Many of the actions initially raised by a community of Silver City representative were found to be pertinent to a wider area of Owyhee County.

- Wildfire fuels reduction: In general terms as needed for defensible spaces for rural residences. and one option for solution would be education. Another concern regarding wildfire fuels reduction is related to invasive juniper which can be addressed through mastication and prescribed burns. A third concern regarding Wildfire fuels reduction is related to the large percentage of federally managed lands within the county (approximately 80%) which are primarily grazing lands where decades of BLM grazing reductions have resulted in increased fuels and, thus, increased fire risk. This issue may be mitigated through increased grazing as the most economical form of fuels reduction.
- Improve roads and bridges proximate to Jarbridge Rivers and East Fork of the Bruneau, and clean debris from streams. Due to the steep terrain and flash flooding issues that may occur on even those drainages that may not normally carry large quantities of water for the greater portion of the year, this issue is also relevant to a number of other roads and drainages within Owyhee County.
- Designate community shelters for use during severe weather in incorporated cities and unincorporated communities across the county.
- **Improve limited cell service in rural areas of county, and implement backup communication systems.**
- Reduce juniper across the county.
- Encourage aspen and regenerate current aspen stands where appropriate.
- Bury propane tanks at-risk propane tanks where appropriate in the county; assess other propane tanks and buildings.
- Develop additional fire suppression waters and/or pumping capacity of water across the county.
- Develop egress plan with focus on busy weekends and tourists for areas that are heavily impacted by recreational users from out of county.
- Identify available water sources (Three Creek Well for example) which needs power hookup/generator to remain available for emergencies.



Boise  
10350 W. Emerald  
Boise, ID 83704  
(208)332-0188

Twin Falls  
460 Main Ave S  
Twin Falls, ID 83301  
(208)736-0188

<http://www.tek-finity.com>

The new fiber will provide access to direct fiber internet access to homes along the route and in the city of Murphy. In addition to the homes passed, the LTE micro-pop service can serve 2,477 homes up to 4 miles away from the fiber route. The packages are listed below.

Fiber

50M	\$34.95 per month
100M	\$64.95 per month
1000M	\$84.95 per month

LTE

5M	\$34.95 per month
10M	\$54.95 per month
15M	\$64.95 per month
20M	\$74.95
25M	\$84.95
50M	\$109.95

The green line depicts the new fiber route starting in Marsing and finishing in Murphy, the blue wifi symbols are LTE micro pops extending access.





## OWYHEE COUNTY SHERIFF'S OFFICE

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To: Whom it may Concern

From: James Vincent, LT.

Re: Letter of Support

As a representative of Owyhee County, the Owyhee County Sheriff's Office is pledging our support for Owyhee County's application for the Marsing to Murphy Broadband to Households Critical Infrastructure Project 1.

Having high-speed broadband connections are critical as we move forward in the recovery process, as well as fulfilling public safety connectivity needs in the future. This project will increase the broadband accessibility and capacity to the critical infrastructure facilities identified in the project.

Thank you for your time and consideration.

James Vincent



# Hope House

"a home to come to"

PO Box 550 · Marsing, Idaho 83639-0550 · (208) 896-4673 · FAX (208) 896-5353 · [www.ahome2come2.com](http://www.ahome2come2.com)

July, 14, 2020

RE: Owyhee County  
of Support

Dear Chairman Hoagland:

As a business owner and caretaker of vulnerable children in rural Owyhee County, I strongly support the Idaho Broadband Grant application through the CARES (The Coronavirus Aid, Relief, and Economic Security) Act funding in our community and am very excited for the opportunities this funding will provide to install broadband service options for our rural residents.

I understand the need to provide the businesses and residents of Owyhee county with highspeed and reliable broadband services.

Using the speed test at <https://broadbandnow.com/speedtest>, our current internet speeds are 0.278 Mbps download, and 0.344 Mbps upload.

Hope House depends on our internet connection for a wide variety of uses including communicating with both on-site and off-site care staff, teachers, and other staff our children depend upon for their everyday life, education, and healthcare. Our on-site special purpose school depends on the internet for many classes through the IDLA program. We depend on the internet to both create and update our website in order to keep our supporters informed of our needs and desires. We also use the internet to recruit and interview potential staff members. High speed internet would go a long way towards making all of these tasks quicker and more efficient.

Thank you in advance for taking the time to read this letter of support.

Sincerely,

Donnalee Velvick-Lowry  
Administrator  
Hope House, Inc.

Idaho One Stop, LLC  
10728 State Hwy 78  
Givens Hot Springs, ID 83641

RE: Owyhee County  
Letter of Support

Dear Chairman Hoagland:

As a resident in rural Owyhee County, we strongly support the Idaho Broadband Grant application through the CARES (The Coronavirus Aid, Relief, and Economic Security) Act funding in our community and are very excited for the opportunities this funding will provide to install broadband service options for our rural residents.

We understand the need to provide the businesses and residents of Owyhee county with highspeed and reliable broadband services.

Using the speed test at <https://broadbandnow.com/speedtest>, our current internet speeds are 1.36 Mbps download, and .27 Mbps upload. This is very slow. We have tried multiple services and this is about the best we can do. Additionally, we are without cell phone service in our area and depend on the internet to use our business phones. Often times we drop or miss calls that are vital to our business. There are several small businesses in our area that have similar or worse issues with spotty or delayed service.

Thank you in advance for taking the time to read this letter of support.

Sincerely,

A handwritten signature in black ink, appearing to read "David Barkell", written in a cursive style.

David Barkell

Idaho One Stop, LLC

July 10, 2020

Owyhee County Commission Chairman, Murphy Idaho  
RE: Owyhee County  
Letter of Support

Dear Chairman Hoagland:

As a business owner in rural Owyhee County, we strongly support the Idaho Broadband Grant application through the CARES (The Coronavirus Aid, Relief, and Economic Security) Act funding in our community and are very excited for the opportunities this funding will provide to install broadband service options for our rural residents.

We understand the need to provide the businesses and residents of Owyhee county with highspeed and reliable broadband services.

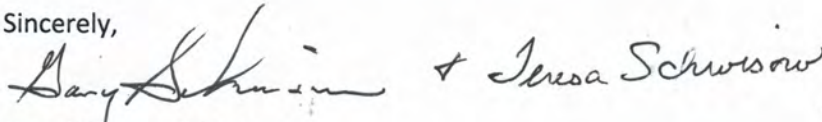
Using the speed test at <https://broadbandnow.com/speedtest>, our current internet are 7.5 to 17.1 Mbps download, and 1.72 to 2.73 Mbps upload (depending time of day). We pay \$125 per month for this substandard speed.

Faster and more reliable fiber broadband would-

- Provide faster download speed for video training and compliance material.
- Speed uploading of documents, photos, and video to company headquarters, other growing locations, and government agencies.
- We do not have cellular phone coverage here. We now rely on internet Wi-Fi to communicate via cell phone. Fiber would increase the quality and reliability of this type of communication especially communicating with Owyhee County emergency services.
- Bring our facility communications up to standard with other business of our type and **keep us competitive in the marketplace.**

Thank you for taking the time to read this letter of support.

Sincerely,



Gary & Teresa Schwisow  
Express Farms (Lessor to Bonnie Plants)  
10550 State Hwy 78, 83641-4120  
208-896-4229



Lesli Hinton  
17050 Pedracini St  
Murphy, ID 83650

RE: Owyhee County  
Letter of Support

Dear Chairman Hoagland:

I live in Murphy and have lived here for the last 5 years. I have never had Internet because where I live, I would have to pay for Satellite Internet. After speaking with neighbors and friends who are familiar with the Internet options out here, I have determined that it would not be cost effective for the speed that I would receive. \$70.00 to \$100.00 per month for intermittent and slow service does not sound like a good deal to me and frankly I cannot afford that.

Therefore, I strongly support the Idaho Broadband Grant application through the CARES (The Coronavirus Aid, Relief, and Economic Security) Act funding in our community. It would be a great help for me to be able to have Internet Access. It would help me to be better connected to my family and friends. Since I live alone, sometimes just reading a message or facetimeing with my grandchildren (which I can't do now) would make me a healthier and happier person. For me to have broadband service options would be a blessing. It is something that has been needed for a while.

Thank you for taking the time to read this letter of support

Sincerely,



Lesli Hinton



**MARSING JOINT SCHOOL DISTRICT No. 363**

Owyhee & Canyon County  
P. O. Box 340  
209 8<sup>th</sup> Avenue West  
Marsing, Idaho 83639  
Phone 1-208-649-5411 Fax 1-208-649-5517

**OUR VISION**

To provide effective schools that have the following characteristics:

Commitment to learning as the number one priority

Strong community involvement

Strong instructional leadership

High expectations for students and staff

Commitment to mastery of all basic skills by all Students

Clear and focused school mission

Positive school climate

Consistency among staff in the treatment of students

Frequent and careful monitoring of student progress

**OUR MISSION**

To educate all students to lead productive, satisfying and responsible lives now and in the future.

To: Owyhee County Commissioners

RE: Letter of Support

Dear Chairman Hoagland:

As a School District in rural Owyhee County, we strongly support the Idaho Broadband Grant application through the CARES (The Coronavirus Aid, Relief, and Economic Security) Act funding in our community and are very excited for the opportunities this funding will provide to install broadband service options for our rural residents.

We understand the need to provide the businesses and residents of Owyhee county with high speed and reliable broadband services.

Due to our COVID-19 soft-closure during the 2019-20 school year, we are very aware that many residence of the county do not have reliable internet access. This lack of access made it difficult to provide educational services to our students and their families. This opportunity would provide the families multiple opportunities to enrich their lives and provide economic opportunities. The Marsing School District enthusiastically supports the county's goal of applying for this grant opportunity.

Thank you in advance for taking the time to read this letter of support.

Sincerely,

Norm Stewart  
Superintendent  
Marsing Joint School District #363

July 14, 2020

RE: Owyhee County  
of Support

Dear Chairman Hoagland:

As a resident in rural Owyhee County, we strongly support the Idaho Broadband Grant application through the CARES (The Coronavirus Aid, Relief, and Economic Security) Act funding in our community and are very excited for the opportunities this funding will provide to install broadband service options for our rural residents.

We understand the need to provide the businesses and residents of Owyhee county with highspeed and reliable broadband services.

Using the speed test at <https://broadbandnow.com/speedtest>, our current internet speeds are 3.76 Mbps download, and 0.96 Mbps upload.

It is extremely important in these days of the Coronavirus to be able to stay connected to family and friends, as well as to be able to remain connected to my co-workers and my job as I work from home as much as possible. High-speed internet would increase my productivity and reduce my time spent waiting on my internet to catch up with what I need to accomplish. My child's educational needs would also be greatly enhanced. This grant could solve many, if not all, of the issues we deal with using our current slow speeds.

Thank you in advance for taking the time to read this letter of support.

Sincerely,

A handwritten signature in black ink, appearing to read "Keith", written in a cursive style.

Keith  
PO Box 311  
Marsing, ID 83639  
KaptainKWC@aol.com

10 July 2020

RE: Owyhee County  
Letter of Support

Dear Chairman Hoagland:

As a business owner in rural Owyhee County, I strongly support the Idaho Broadband Grant application through the CARES (The Coronavirus Aid, Relief, and Economic Security) Act funding in our community and am very excited for the opportunities this funding will provide to install broadband service options for our rural residents. I understand the need to provide the businesses and residents of Owyhee county with highspeed and reliable broadband services.

Using the speed test at <https://broadbandnow.com/speedtest>, our current internet are 7.5 to 17.1 Mbps download, and 1.72 to 2.73 Mbps upload.

I operate a large commercial greenhouse operation that provides 10 full time and approximately 40 part-time jobs locally as a subsidiary of Bonnie Plants. We are reliant on Wi-Fi for phone calls as well as internet access since we do not have cellular coverage here. When the internet is slow or down altogether, we cannot conduct normal business operations such as responding to customers, tracking inventory, or emailing invoices.

In addition, the Coronavirus has required us to conduct inspections and audits that would normally be done in person via video conference, which has been difficult.

Faster internet access would transform our daily operations by allowing us to download video training materials, upload documents, and maintain our online databases more efficiently (It takes over 2 minutes to print a document from one of our remote servers!) as well as provide better support to our employees and customers.

Thank you in advance for taking the time to read this letter of support.

Sincerely,



Corey Chase  
Bonnie Plants  
10550 Highway78  
Melba, ID 83641



Hope Christian Academy  
7696 Old Bruneau Hwy.  
Marsing, ID 83639

RE: Owyhee County  
Letter of Support

Dear Chairman Hoagland:

As a business owner in rural Owyhee County, we strongly support the Idaho Broadband Grant application through the CARES (The Coronavirus Aid, Relief, and Economic Security) Act funding in our community and are very excited for the opportunities this funding will provide to install broadband service options for our rural residents. We understand the need to provide the businesses and residents of Owyhee county with highspeed and reliable broadband services. Using the speed test at <https://broadbandnow.com/speedtest>, our (my) current internet are 8.11 Mbps download, and 4.18 Mbps upload.

Hope Christian Academy is the on campus school for the youth who reside at Hope House Children's Home. As an accredited school, we must provide an educational environment that is equitable to the public-school districts in the area. This includes providing online classes, access to the internet for school assignments and projects, and computer classes that require internet access with adequate speed. Since we moved our school from Nampa to Marsing 17 years ago, we have had a continual struggle with having reliable internet access. We have used three different reputable wireless internet companies during this time, none of which were consistently reliable. We often lose connection if there is rain or wind. The companies have told us that is because we sit in a place that has difficulty connecting to their tower during these times. While consistent connectivity is a major issue, even more important is higher speed. As you can tell by our numbers above, we are running a school of 40 computers on speeds that would normally be used in a single-family household. This makes doing online classes, assignments, projects, and mandated state educational testing much more difficult and time consuming for our students and teachers. We often have to wait several minutes for a screen to change just to do the next problem in a math class or get connected to the website link that is part of their assignment; and, trying to watch any kind of a video included in an assignment is nearly impossible. Taking the ISAT/SBAC testing requires all of the computers to be in use at the same time which takes up so much bandwidth that the testing takes even longer than the already lengthy test. The more students/teachers that are logged on to the internet the less bandwidth each computer has on an already minimal system. We have tried to increase our speeds but have been told by each of the providers that we have had that because of our rural situation we cannot. Having access to consistent high-speed internet would give our students a much more equitable education. Finally, given the current situation in our country, the possibility of needing to go to remote education now and in the future is something that all schools need to be ready to do. Receiving this grant would enable us to be better prepared should that situation arise. This issue has been at the top on our list of needed school improvements for over 10 years. We have sought out many companies and options and found the cost to bring efficient high-speed internet to us is way more than anything we could ever afford. This grant would provide the internet access needed to give the students and teachers in our school a much needed boost to their everyday learning environment.

Thank you in advance for taking the time to read this letter of support.

Sincerely,

Sandy Dario, Administrator  
Hope Christian Academy  
7696 Old Bruneau Hwy.  
Marsing, ID 83639  
208-896-4673 x115 (Office)  
208-249-0066 (Cell)

Jim Desmond  
Owyhee County Emergency Services Coordinator  
P.O. Box 128  
Murphy, ID 83650

July 15, 2020

Ms. Sarah Kipper  
Owyhee County 911 Coordinator  
P.O. Box 128  
Murphy, ID 83650

Re: Letter of Support for 3 Cares Act Broadband Grant Applications Submitted by Owyhee County

This document will be delivered via email to [skipper@co.owyhee.id.us](mailto:skipper@co.owyhee.id.us)

Dear Ms Kipper:

I am aware of the specifics of the two Household and one Public Safety grant applications you have developed for potential funding approval.

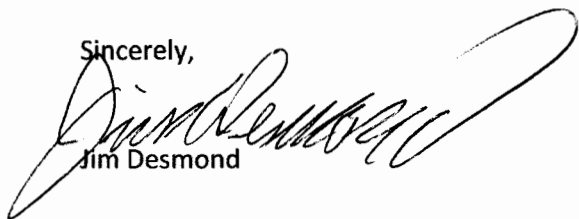
I have been the Owyhee County Emergency Services Coordinator since October of 2008. From 2002 I have been engaged in a variety of other contracted functions for the Board of Owyhee County Commissioners that include Natural Resources Committee Director, Murphy Airport Manager, and Staff Assistant to the Board. Prior to the beginning of contract work, I was employed by the County as an Appraiser in the Office of the County Assessor. In that job, I traveled extensively in the "back country" of the county as well as in the more developed areas along the Snake River from the Hammet Bridge to Givens Hot Springs, performing property appraisals.

I know the county well from those previous and current jobs and am familiar with the challenges to communication that were then, and still are, making life more difficult for Owyhee County Residents than for those in more populated areas. I know that the county's per capita income is 42<sup>nd</sup> of 44 Idaho Counties and I know that means that we are unlikely to attract a commercial operator willing to make the broadband infrastructure investment necessary to bring Owyhee County on par with our neighboring counties of Ada and Canyon.

As the County Emergency Services Coordinator I have seen the adverse impact that the lack of reliable and high speed internet access has caused for several of our first responder entities. As you know, our first responders are nearly all small, independent organizations with little funding. With the exception of the Owyhee Sheriff's Office and the Homedale PD, our first responder entities are comprised of volunteer members serving their communities. They do this service while working other jobs and they often struggle to provide the information required during this Covid-19 event. In order for our responders to receive assistance in obtaining very scarce personal protective equipment (PPE), our medical responders are being required to post daily to two separate internet based PPE monitoring systems. Our fire and Law Enforcement responders are required to post daily in one internet based system. In many cases the slow and/or unreliable internet access we have in even our more populated areas makes this seemingly manageable task quite difficult. Your proposed broadband grants will go a long way toward rectifying this problem.

I strongly support the need for the grants to provide increased access and improved access via broadband as detailed in your grants.

Sincerely,

A handwritten signature in black ink, appearing to read "Jim Desmond". The signature is fluid and cursive, with a large loop at the end.

Jim Desmond



**OWYHEE COUNTY  
PROSECUTING ATTORNEY  
JEFFREY L. PHILLIPS**

OWYHEE COUNTY COURTHOUSE  
P.O. Box 128  
MURPHY, IDAHO 83650

**DEPUTY PROSECUTOR  
SAMUEL N. DICKINSON**

PHONE  
208-495-1153

FAX  
208-495-2592

To: Whom it may Concern

From: Jeffrey L. Phillips, Owyhee County Prosecuting Attorney

Re: Letter of Support

As a representative of Owyhee County, the Owyhee County Prosecuting Attorney is pledging our support for Owyhee County's application for the Marsing to Murphy Broadband to Households Critical Infrastructure Project 1.

Having high-speed broadband connections are critical as we move forward in the recovery process, as well as fulfilling public safety connectivity needs in the future. This project will increase the broadband accessibility and capacity to the critical infrastructure facilities identified in the project.

Thank you for your time and consideration.

Thank You,

Jeffrey L. Phillips  
Owyhee County Prosecuting Attorney



To: Whom it may Concern

From: Sgt. Greg Bishop

Re: Letter of Support

As a representative of Owyhee County, the Owyhee County Sheriff's Office is pledging our support for Owyhee County's application for the Owyhee County Public Safety Critical Infrastructure Project.

Having high-speed broadband connections to Public Safety and Government Facilities is critical as we move forward in the recovery process, as well as fulfilling public safety connectivity needs in the future. This project will increase the broadband accessibility and capacity to the critical infrastructure facilities identified in the project.

As a road deputy for the Owyhee County Sheriff's Office I have seen first hand the challenges faced by not only our residents face but those traveling through our jurisdiction due to the lack of access to high-speed broadband connections. Technology is evolving at such a fast pace and our county is struggling to meet the demands of those we serve. During this difficult time of social distancing or one could even call it isolation it is more important than ever for our county population to stay connected and be able to conduct needed communications. This project could very well help save lives as well as mitigate the need for unnecessary risk to first responders.

Thank you for your time and consideration.

Sgt. Greg Bishop

# OWYHEE COUNTY HISTORICAL SOCIETY MUSEUM AND LIBRARY



17085 Basey Street • Murphy, ID 83650

Phone: (208) 495-2319 • Fax: 495-9824 • [director@owyheemuseum.org](mailto:director@owyheemuseum.org) • [www.owyheemuseum.org](http://www.owyheemuseum.org)

To: Whom it may Concern

From: Eriks Garsvo, Director

Re: Letter of Support

As a representative of Owyhee County, the Owyhee County Historical Society is pledging our support for Owyhee County's application for the Marsing to Murphy Broadband to Households Critical Infrastructure Project 1.

Having high-speed broadband connections are critical as the museum moves forward in the recovery process, as well as fulfilling public safety connectivity needs in the future. This project will increase the broadband accessibility and capacity to the critical infrastructure facilities identified in the project. The Museum is excited to be able to have high speed, reliable internet as now the museum can invest in digital and virtual displays that require good internet connection.

Thank you for your time and consideration.

Eriks Garsvo

Executive Director, OCHS



To: Whom it may Concern

From: Don Best / Owyhee County Road & Bridge Dist III Supervisor

Re: Letter of Support

As a representative of Owyhee County, the Owyhee County Road & Bridge Dist III is pledging our support for Owyhee County's application for the Marsing to Murphy Broadband to Households Critical Infrastructure Project 1.

Having high-speed broadband connections are critical as we move forward in the recovery process, as well as fulfilling public safety connectivity needs in the future. This project will increase the broadband accessibility and capacity to the critical infrastructure facilities identified in the project.

Thank you for your time and consideration.

Don Best



# MARSING AMBULANCE SERVICE

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P.O. Box 132 • Marsing, Idaho 83639 • Telephone: 208-407-0300 • Fax: 208-896-5563 • Email: marsingambulance@cableone.net

Dear Grant Committee

As a representative of Public Safety in Owyhee County, the Marsing Ambulance Service is pledging our support for Owyhee County's applications for the Murphy to Marsing Broadband to Households Critical Infrastructure Project, and the Owyhee County Public Safety Critical Infrastructure Project.

Having high-speed broadband connections to our Public Safety Facilities is critical as we move forward in the recovery process, as well as fulfilling public safety connectivity needs in the future. We support the application to bolster our broadband capacity for the benefit of our community. We have areas in our response district where we have no broadband coverage at all so cannot communicate with our dispatch or medical control. Needless to say that situation is a huge safety concern for our providers and our patients. Increasing the accessibility and capacity of broadband between our facilities housing Emergency Services Dispatch, Law Enforcement, Fire, and Emergency Medical services and critical infrastructure of our rural county is crucial.

In these unprecedented times, it has become even more apparent that communication in all forms is paramount. Our ability to work through the virtual world continues to be significant to keeping our communities moving forward. Education, telehealth and public safety are priorities at the forefront of our recovery. Much of our continuing education and certification as first responders has transitioned to an online format due to travel restrictions and limitations on classroom learning due to social distancing requirements, and the limited broadband connectivity at both our homes and public safety facilities makes access to those courses difficult, if not impossible.

We believe that this project meets the criteria of the CARES Act and would greatly benefit Owyhee County.

Thank you for your time and consideration.

Sincerely

Betty Ackerman  
Administrator  
Marsing Ambulance Service  
208-407-0300  
marsingambulance@cableone.net



## **MRW FIRE RESCUE EMS**

Murphy Reynolds Wilson Fire District  
11606 State Hwy 78  
Givens Hot Springs, ID 83641



Subject: Support for Idaho Broadband Grant

11 July 2020

As a representative of Public Safety in Owyhee County, the Murphy Reynolds Wilson Fire District is pledging our support for Owyhee County's applications for the Murphy to Marsing Broadband to Households Critical Infrastructure Project, and the Owyhee County Public Safety Critical Infrastructure Project.

Having high-speed broadband connections to our Fire and EMS Facilities is critical as we move forward. The new broadband will fulfill public safety connectivity needs in the future. We support the application to bolster our broadband capacity for the benefit of our community. Increasing the accessibility and capacity of broadband between our facilities housing Emergency Services Dispatch, Law Enforcement, Fire, and Emergency Medical services and critical infrastructure of our rural county is crucial. Our current DSL is not adequate to meet our training and operational needs. We cannot stream our emergency medical or fire training, or participate in any video conferences with state or federal agencies.

It has become even more apparent that communication in all forms is paramount for our ability to work through the virtual world. Education, telehealth and public safety are priorities at the forefront of our recovery. Much of our continuing education and certification as first responders has transitioned to an online format due to travel restrictions and limitations on classroom learning due to social distancing requirements, and the limited broadband connectivity at both our homes and public safety facilities makes access to those courses difficult, if not impossible.

We believe that this project meets the criteria of the CARES Act and would greatly benefit Owyhee County.

Thank you for your time and consideration.

FOR THE COMMISSIONERS:

Louis K. Monson  
Deputy Chief,  
District Treasurer,  
EMS Supervisor

Allen & Lynn Tredeau  
10723 Sate Highway 78  
Melba, ID 83641

RE: Owyhee County

Letter of Support

Dear Chairman Hoagland:

As residents and business owners in rural Owyhee County, we strongly support the Idaho Broadband Grant application through the CARES (The Coronavirus Aid, Relief, and Economic Security) Act funding in our community and are very excited for the opportunities this funding will provide to install broadband service options for our rural residents.

We understand the need to provide the businesses and residents of Owyhee county with highspeed and reliable broadband services.

Using the speed test at <https://broadbandnow.com/speedtest>, my current internet speeds are 11.35 Mbps download, and 2.79 Mbps upload. These speeds fluctuate widely depending on the time of day and other customer usage. I experience as low as 1.00 Mbps download and 0.00 upload.

We have an income based partially on live musical performance. The current pandemic has restricted our ability to hold in person concerts either locally or touring. We have upgraded with our current internet provider in an attempt to have a consistent level of upload speed, but we continue to struggle without a quality broadband connection. Each time we attempt to hold an online concert, we experience lagging and dropping of our connection. This is frustrating for the audience and restricts our ability to supplement our income. Our speed is fastest in the early morning decreasing as the day goes on. By evening, when we want to hold an online concert, the speeds drop rapidly.

Thank you in advance for taking the time to read this letter of support.

Sincerely,

Allen & Lynn Tredeau

TABETHA BAILEY

17033 STATE HIGHWAY 78

MELBA, IDAHO 83641

RE: Owyhee County

Letter of Support

Dear Chairman Hoagland:

As a resident in rural Owyhee County, I strongly support the Idaho Broadband Grant application through the CARES (The Coronavirus Aid, Relief, and Economic Security) Act funding in our community and am very excited for the opportunities this funding will provide to install broadband service options for our rural residents.

I understand the need to provide the businesses and residents of Owyhee county with highspeed and reliable broadband services.

At this current time with unaffordable and unattainable reliable internet, I currently do not have this service. I have two children in school and this last year with COVID-19 going on my children were suppose to have online schooling we were unable to do this. If there was broadband and at a lower price this would have made homeschooling so much easier. The fact that this may become a reality in the future again for homeschooling because of things like the pandemic makes this necessary. In our day and age this would benefit everyone in our community.

Thank you in advance for taking the time to read this letter of support.

Sincerely,

TABETHA BAILEY

Betty Ackerman  
6056 Hwy 78  
Marsing ID 83639

Owyhee County

Letter of Support

Dear Chairman Hoagland:

As a resident in rural Owyhee County, I strongly support the Idaho Broadband Grant application through the CARES (The Coronavirus Aid, Relief, and Economic Security) Act funding in our community and am very excited for the opportunities this funding will provide to install broadband service options for our rural residents.

I understand the need to provide the businesses and residents of Owyhee county with highspeed and reliable broadband services.

Using the speed test at <https://broadbandnow.com/speedtest>, my current internet speeds are 4.75 Mbps download and 1.49 Mbps upload.

I am one of the lucky few to be able to receive (somewhat) consistent internet access but through my experience as a Marsing School board member I know that many of the families in our area do not have the same luxury. With the recent and continuing need for access to online learning the Marsing School District has struggled with finding ways to make internet access available to all our students. Reliable coverage is often hard, too impossible, to find in our rural community. This grant would go a long way toward helping our students have access to the education they need.

Thank you for taking the time to read this letter and consider us for your support.

Sincerely,

Betty Ackerman



# State of Idaho Public Broadband Grant Application: Households

Applicant	Angela Barkell
Applicant ID	APP-004213
Company Name	Owyhee County
Recipient Address	Owyhee County NA Murphy, ID 83650
Phone	(208) 495-2421
Email	abarkell@co.owyhee.id.us
Amount Requested	\$3,000,000.00
Status	Submitted
Funded	<input type="checkbox"/>

Application Title: Owyhee County Broadband to Households Critical Infrastructure Project 2 - Murphy to Grandview

## Applicant Information

**NOTICE: Grant applications, challenges, and responses to challenges will be posted to the Idaho Department of Commerce website**

### Purpose:

#### 1. Program Description

The CARES Act funding received by the State of Idaho will fund projects across the state that create and retain local jobs and result in purposeful outcomes, including distance learning, telehealth public safety, commerce, and overall well-being. This CFAC Broadband Grant initiative grant program (the “Program for Households”) is designed to meet the CARES Act criteria, and help Idaho rebound from the COVID-19 public health emergency. Approximately 70% of the \$50 million received by the Idaho Department of Commerce will be allocated to this program aimed at households that lack access to broadband.

**• Projects must be completed and grant funds requested and dispersed before December 15th, 2020.**

**Question:** Contact information of applicant: Name Title Mailing Address Email Phone

Angela Barkell, Clerk of the District Court, P.O. Box 128, Murphy, Idaho 83650,  
abarkell@co.owyhee.id.us, 208-495-2421

**Question:** List the cities/communities where the project(s) will take place.

Murphy, Idaho; Oreana, Idaho; Grandview, Idaho; Bruneau, Idaho

**Question:** Enter the zip code(s) where the project will take place.

83650, 83650, 83624, 83604

**Question:** Enter name and title of designated grant administrator

Polly Hulsey, Economic Development Manager, Region IV Development Association (RIVDA)

**Question:** Enter the email of the designated grant administrator

phulsey@csi.edu

**Question:** Enter the phone number of the designated grant administrator

208.732.5727 extension 3011

## Project Requirements

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### Eligible Projects

Projects must meet the following eligibility criteria: The project must:

- Be infrastructure investment, associated equipment, and accessories related to broadband as defined by the FCC: speeds of 25 Mbps download and 3 Mbps upload.
- Meet the CARES Act criteria, which is designed to address key areas of public health and safety by improving opportunities to telework, facilitate distance learning, and improve public safety
- Be a project that serves underbuilt areas and does not overbuild existing broadband service. Underbuilt areas are defined as locations where less than fifty percent (50%) of households in the project area have access to broadband service.
- Include only new broadband service to be installed, owned, and operated by for-profit companies, or membership owned cooperative corporations as defined in [Idaho Code Title 30, Chapter 30](#) that provide broadband services to the public.
- Provide broadband service within the applicant's proposed project area.
- Be completed, operable, paid for, and submitted to the Idaho Department of Commerce for payment no later than December 15, 2020.
- Include broadband infrastructure and equipment costs meeting CARES Act criteria. Satellite service is not eligible for grant award.

**Question:** Does your project meet the CARES Act criteria?

Yes

No

**Question:** Does your project provide a minimum of 25 Mbps Download and 3 Mbps Upload as outlined by the CFAC Committee Recommendation?

Yes

No

**Question:** Does your project provide service to areas where less than 50% of households in the project area has broadband as outlined by the CFAC Committee Recommendation?

Yes

No

**Question:** Include only new broadband service to be installed, owned, and operated by for-profit companies, or membership owned cooperative corporations as defined Idaho Code Title 30, Chapter 30 that provide broadband services to the services to the public.

Yes

No

**Question:** I understand that the State of Idaho will provide no funding and have no obligations for projects that fail to be completed by December 15, 2020.

Yes

No

## Scored Criteria

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**Question:** Provide an overview of the project including why the project is important and will address broadband needs of the community.

According to BroadbandNow, 81.2% of Idahoans have access to broadband speeds of 25 mbps or higher, but only half that percentage of Owyhee Countians (40.9%) has equal access; none of them live in Oreana. Imagine loading six kids in the care and driving 19 miles to find WiFi so one can complete a school report; this is a reality for our citizens. ¶Social isolation caused by COVID-19 is detrimental to mental health and well-being, and worse for those who are unable to utilize video chat and video conference technology. Our citizens have shared how devastating this lack of connections has been, from being unable to video chat with family, to inability to access online education, to losing income because they cannot telecommute or run their home-based business. This is an example of the Digital Divide, and without this ability to access

social supports and work and learn from home, lack of broadband actually becomes hazardous to our citizens. ¶ Project 2, contingent on the funding of Project 1, will continue laying the foundation for a fiber-based, unlimited capacity broadband service in Owyhee County. Residents and businesses along the 38-mile route from Murphy to Rimrock Jr/Sr High School between Grandview and Bruneau, including the community of Oreana, will gain access to broadband speeds. Tekfinity, a local Idaho Internet Service Provider, will place new fiber and four strategically-placed micro-PoPs (small LTE towers) that will allow those within 8 miles line-of-sight broadband speeds of at least 25 mbps download/3 mbps upload. Those within 4 miles can receive speeds of at least 50 mbps download at time of project completion. This will provide availability of Fiber to the Home (FTTH) connectivity post project completion. FTTH connections are not constrained by limitations of over the air wireless technology, and can provide speeds upwards of 1000 Mbps. By laying the fiber foundation today, we are future-proofing our broadband connectivity for tomorrow, and will be prepared for the next generation of broadband. ¶ Due to its remote location, the community of Oreana would never have the opportunity to receive broadband access—even if broadband were available in the closest towns of Murphy (15 miles west) and Grandview (18 miles east). This is a one-time opportunity, and without it, people and businesses within the project area will continue to be under/unserved, as there is not enough revenue generated by the population to support fiber installation. This project will allow our rural Idaho residents, students, and businesses the same digital access and opportunities as those in urban areas, and will enable rural Owyhee County residents to thrive in a digital world with no borders. Local economic opportunities will increase proportional to broadband access. Without this optical fiber and broadband, the citizens of Owyhee County remain victims of the Digital Divide, with the world passing them by.

**Question:** Is your project in an area where 50% of households is in an unserved area?

Yes

No

**Question:** Is your project in an area where more than 50% of households is in an underserved area?

Yes

No

**Question:** Is the project in a town/city/municipality of less than 3,000 people?

Yes

No

**Question:** How many households may receive broadband service because of this project?

1129.00

**Question:** Does the project address a need as identified in a local or regional broadband plan? If yes, please describe.

Owyhee County agrees with the Governor’s Broadband Task Force findings, which have become more critical as a result of COVID-19 & its impact on commerce, education, & the ability of private business & governmental entities to keep workers employed. “Access to broadband & high-speed internet services is an urgent priority for Idahoans in all corners of the state. A robust, comprehensive & dynamic broadband plan for Idaho is imperative in order to identify priorities & secure funding... recommendations... aimed at providing reliable broadband access to all residents & businesses in Idaho... Addressing solutions for the unserved areas in rural Idaho is the highest priority.”

Owyhee County’s Multi-Jurisdictional Hazard Mitigation Plan seeks to, “Improve limited cell service in rural areas of the county, & implement backup communication systems.” Current coverage limits are detrimental to work from home, distance learning & public safety response key to dealing with COVID-19. (See attached Plan)

## Additional Requirements

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Upload Supporting Documents for scope of project including maps, site plans, studies, or photographs, demonstrating the location of the project.

### Project Attachment Templates:

[CARES Act Certification](#)

[Grant Budget Template](#)

[Project Schedule Form](#)

[Letters of Support/Community match template](#)

**Question:** Estimated total project cost?

2995455.00

**Question:** List the underserved and unserved community facilities (schools, libraries, government offices, hospitals, public safety, etc.) within the proposed project area.

Grandview DMV and Owyhee County Sheriff’s Office Substation, Grandview Fire, Grandview EMS, Rimrock School, Bruneau Fire, Bruneau EMS

**Question:** What is the average cost per household of new broadband service based on this project cost?

Residential Fiber options are: 50M \$34.95 100M \$64.95; LTE access options are 5M – \$34.95 10M – \$54.95 15M – \$64.95 20M – \$74.95 25M - \$84.95 50M - \$104.95

**Question:** What is the maximum broadband speed that will be provided by the project?

1000 mbps download, 1000 mbps upload

**Question:** Are permits, permissions, rights of way and zoning requirements readily available in order for the project to be completed and paid for by December 15, 2020?

Yes

**Question:** If answered no in previous question, please describe. If the project does not require any of the above answer N/A.

N/A

**Question:** Describe how the project will be administered, audited for completion, and accounting performed.

The County will be contracting with Region IV Development, a non-profit organization, to provide project administration, upon award of the grant. The County's designated liaisons with RIVDA are Jerry Hoagland, County Chairman; Angela Barkell, County Clerk; Sarah Kipper, 911 Coordinator. The Administrator's designated liaison with the County is Georgia Dimick, Polly Hulse, Jeff McCurdy, Brandy Lowe, and Brenda Hastreiter. RIVDA shall perform the following as Grant Administrator 1. Project Planning and pre-development a. Meet with the County, Internet Service Providers, the Department and other stakeholders to discuss grant conditions, rules, and requirements. b. Explain to stakeholders various funding program requirements. Detailing eligibility, application process, funding requirements, timelines, etc. c. Working with stakeholders to define "the project", for which funding will be applied for. d. Review data relative to project beneficiaries and information provided by Internet Service Providers in preparation of the application. e. Assisting the applicant in the application and submittal process. f. Assist with the preparation of the grant proposal for submittal to the Idaho Department of Commerce. 2. Project Implementation Activities: Assist the County in fulfilling the conditions of the grant program. Coordinate efforts of the County, Internet Service Providers, Idaho Department of Commerce, and other stakeholders. Assist in preparing and submitting required reports to Idaho Department of Commerce and other stakeholders. 3. Financial Management: Assist the County with establishing project financial management processes and procedures. Prepare payment requests for funding agency approval and facilitate the correction of errors or problems that are identified. Maintain a record of project expenditures and document that the County is properly disbursing funds in accordance with program requirements. Provide progress updates to stakeholders as requested. Note: These services do not replace the County and ISP providers responsibility to work with their financial teams to ensure accuracy in disbursements, etc. 4. Project Close-out: Documentation that the County has met the objective of the grant program and contractual performance requirements. Completing closeout documents for review and signature. Ensure all project and close out documents are submitted to the Idaho Department of Commerce. Ensure requested documents, concerns, and findings are addressed and resolved. Securing the Department's approval to close out.

**Question:** Include any other information regarding why your project should be considered for funding.

Without this grant, no providers will bring fiber to Murphy, much less Oreana, nor the additional 18 miles from the turnoff to Oreana on Highway 78 to Rimrock School between Grandview and Bruneau. The installation is cost prohibitive and would not generate enough income for a provider to justify the expense. Bringing fiber to these citizens, businesses, and communities will allow for far better connections and communications for local government and public safety as well. In the two-part Households project, Tek-Hut will provide a private MPLS high-speed network between our local government and public safety facilities in Homedale, Marsing, Murphy, and Grandview, which will provide a private secure network with less than 5 millisecond latency, which will allow those working in our remote offices the same experience as those working in the main facilities where the servers reside. The three (3) LTE micro-PoP towers in this project are strategically located to not only bring broadband to as many households and

businesses as funding will allow, but will also create allow for improved communications for our first responders. The LTE towers can enable our first responders—law enforcement, fire, and emergency medical service providers— to connect via 802.11 (standard WiFi), or mobile CBRS data terminals using their in-vehicle computers in areas where they cannot connect to a cellular network. These connections are not currently possible in many areas along the project route, and adding these additional layers of connectivity will greatly enhance responder capabilities, thereby improving citizen and responder safety.

**Question:** Upload Supporting Documents for scope of project including maps, site plans, studies, or photographs, demonstrating the location of the project.

[Murphy to Oreana to RimRock Parcels within4Miles.xlsx](#) (7/14/2020 9:55 AM)

**Question:** Upload the completed Grant Budget Template for the project that outlines the various costs.

[Grand View-Idaho-Cares-Act-Broadband-Grant-Budget.pdf](#) (7/14/2020 3:38 PM)

**Question:** Complete the Project Schedule Form

[Idaho-Cares-Act-Broadband-Grant-Project-Schedule-Owyhee County.xlsx](#) (7/15/2020 12:33 PM )

**Question:** Include any Letters of Support or Community Match from the community.

[Community Match Grant Writing 911.pdf](#) (7/15/2020 4:25 PM)

[Tiffany Tuttle Support Letter Murphy to Rimrock.pdf](#) (7/15/2020 2:41 PM)

[Thomas Cattle Company Letter of Support Oreana.docx](#) (7/14/2020 12:48 PM)

[Letter of Support Gonzalez Oreana.docx](#) (7/14/2020 12:47 PM)

[Letter of Support Snyder Grandview.docx](#) (7/11/2020 4:20 PM)

[Letter of Support Resident Boren Oreana.docx](#) (7/11/2020 4:19 PM)

[Letter of Support Oreana Arrow B Ranches.docx](#) (7/11/2020 4:19 PM)

[Letter of Support Monahan Oreana.docx](#) (7/11/2020 4:18 PM)

[Letter of Support Griswold Oreana.docx](#) (7/11/2020 4:18 PM)

**Question:** Provide a copy of your Community Broadband Plan if applicable.

[Extract from Hazard Mitigation Plan for Owyhee County.pdf](#) (7/15/2020 3:57 PM)

**Question:** Provide a notarized CARES Act Certification that this project meets the CARES Act criteria.

[Notarized CARES Act Certification.pdf](#) (7/13/2020 2:25 PM)

**Question:** Provide commitments from community anchor institutions or public safety networks which will utilize your service if the project is funded.

[Project 2 Jail Lt.pdf](#) (7/15/2020 4:27 PM)

[Project 2 Sheriff Grant.pdf](#) (7/15/2020 4:26 PM)

[Project 2 Courthouse.pdf](#) (7/15/2020 4:26 PM)

[Project 2 Coroner.pdf](#) (7/15/2020 4:26 PM)

[Murphy to Rimrock Project 2 Sgt Bishop.docx](#) (7/15/2020 4:25 PM)

[Prosecuting Attorney Murphy to Rimrock Project 2 Support Letter.pdf](#) (7/15/2020 2:46 PM)  
[Road & Bridge Project 2.docx](#) (7/15/2020 1:00 PM)  
[Owyhee County Emergency Manager.pdf](#) (7/15/2020 12:44 PM)  
[Grandview Schools Letter.pdf](#) (7/14/2020 9:55 AM)

**Question:** Map of the project area demonstrating the insufficient availability of broadband service (25/3Mbps) in the proposed service area where less than 50% of households have access to broadband.

[Grandview speedtest map.pdf](#) (7/15/2020 4:38 PM)  
[grandview-broadband-map.pdf](#) (7/15/2020 4:36 PM)

**Question:** Map of the project area which includes the number of households served, the broadband speeds provided, and the technology used to provide that service.

[grandview-map-of-project.pdf](#) (7/15/2020 4:38 PM)

## Signature

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Your identity has been authenticated through the login process with a unique email address and password available only to you. You agree that by typing your name, title and date below, you are electronically signing the application. By electronically signing the application, you acknowledge and represent that you understand and accept all the terms and conditions stated within the application and declare that the information provided is true and that the documents you are submitting in support of your application are genuine and have not been altered in any way.

**Question:** Type your name.

Angela Barkell

**Question:** Type your title.

Owyhee County Clerk

**Question:** Type the submission date.

7/15/2020



Idaho CARES Act Broadband Grant  
Match

Community: Owyhee County

Contributor name (& title): Sarah Kipper, 911 Coordinator

Agency/Business: Owyhee County 911

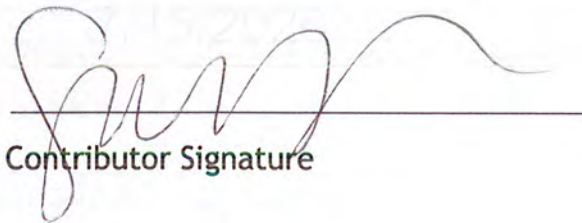
DESCRIPTION OF DONATION:

Date: 7/15/2020

Grant writing @ \$35.00 / hr,  
100 hours.

Total Amount Contributed to Project \$ 3500

I hereby certify that the above listed contributions have been made in the amount (s) shown.

  
Contributor Signature

7/15/2020

On May 31, 2018 FEMA Approved the Hazard Mitigation Plan of Owyhee County Idaho. The following is extracted from the pages 194 and 195 of that document, which is too large to upload to the grant application site. The complete plan is available for review on the Owyhee County web page at [owyheecounty.net](http://owyheecounty.net).

The plan addresses additional mitigation actions needed that were identified by the members of the planning committee. In the list below, we have used bold type to emphasize the action related to the requested broadband grant applications. The mitigation action to “implement backup communication systems” would be supported by the expansion of broadband access to a large segment of the population.

#### 6.4.3 Additional Mitigation Actions

All jurisdictions were provided the opportunity to propose mitigation actions. Some of these discussed mitigation actions were not formally adopted or scored, but for future planning purposes and HMP updates, the following lists the additional proposed mitigation actions initially discussed by the committee and later considered and broadened to county-wide issues by the Emergency Manager and the Planning and Zoning Administrator. Many of the actions initially raised by a community of Silver City representative were found to be pertinent to a wider area of Owyhee County.

- Wildfire fuels reduction: In general terms as needed for defensible spaces for rural residences. and one option for solution would be education. Another concern regarding wildfire fuels reduction is related to invasive juniper which can be addressed through mastication and prescribed burns. A third concern regarding Wildfire fuels reduction is related to the large percentage of federally managed lands within the county (approximately 80%) which are primarily grazing lands where decades of BLM grazing reductions have resulted in increased fuels and, thus, increased fire risk. This issue may be mitigated through increased grazing as the most economical form of fuels reduction.
- Improve roads and bridges proximate to Jarbridge Rivers and East Fork of the Bruneau, and clean debris from streams. Due to the steep terrain and flash flooding issues that may occur on even those drainages that may not normally carry large quantities of water for the greater portion of the year, this issue is also relevant to a number of other roads and drainages within Owyhee County.
- Designate community shelters for use during severe weather in incorporated cities and unincorporated communities across the county.
- **Improve limited cell service in rural areas of county, and implement backup communication systems.**
- Reduce juniper across the county.
- Encourage aspen and regenerate current aspen stands where appropriate.
- Bury propane tanks at-risk propane tanks where appropriate in the county; assess other propane tanks and buildings.
- Develop additional fire suppression waters and/or pumping capacity of water across the county.
- Develop egress plan with focus on busy weekends and tourists for areas that are heavily impacted by recreational users from out of county.
- Identify available water sources (Three Creek Well for example) which needs power hookup/generator to remain available for emergencies.

**Idaho CARES Act Broadband Grant Budget**

<b>Line Item</b>	<b>Grant Dollars</b>				<b>Total</b>
<b>Totals</b>					

# JOINT SCHOOL DISTRICT NO. 365

**BRUNEAU – GRAND VIEW**

*Rimrock Jr. Sr. High*



**To Whom It May Concern:**

**We are currently using Tek-Hut I wanted to express our support for the Tek-Hut application on the Housing broadband Fiber Optic project.**

**As we have found our new normal of living, our ability to work through the virtual world continues to be significant to keeping our communities moving forward. Education, telehealth and public safety have remained priorities at the forefront of the recovery. This project will increase the broadband accessibility and capacity in the local community.**

**Thank you for your time and consideration.**

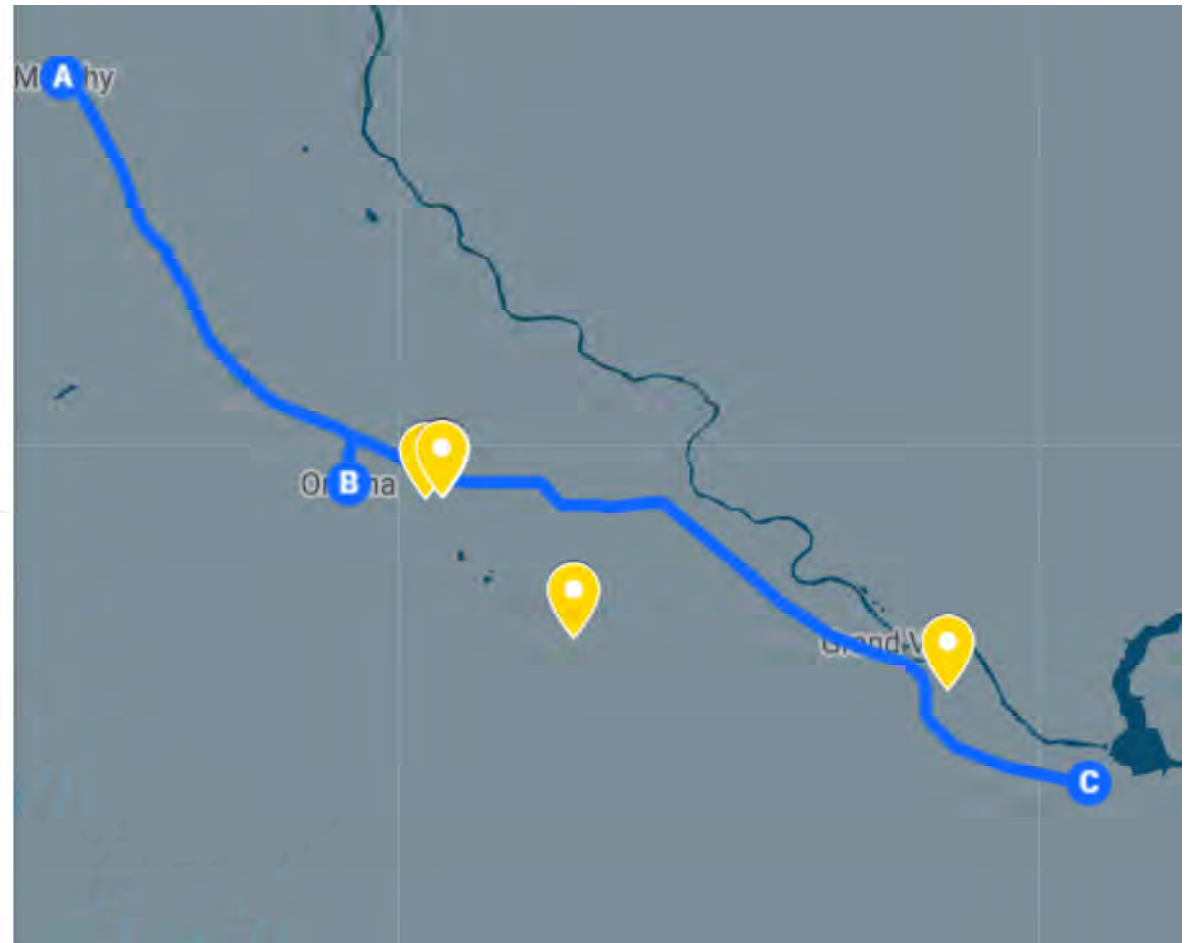
**JayDene Aquiso**

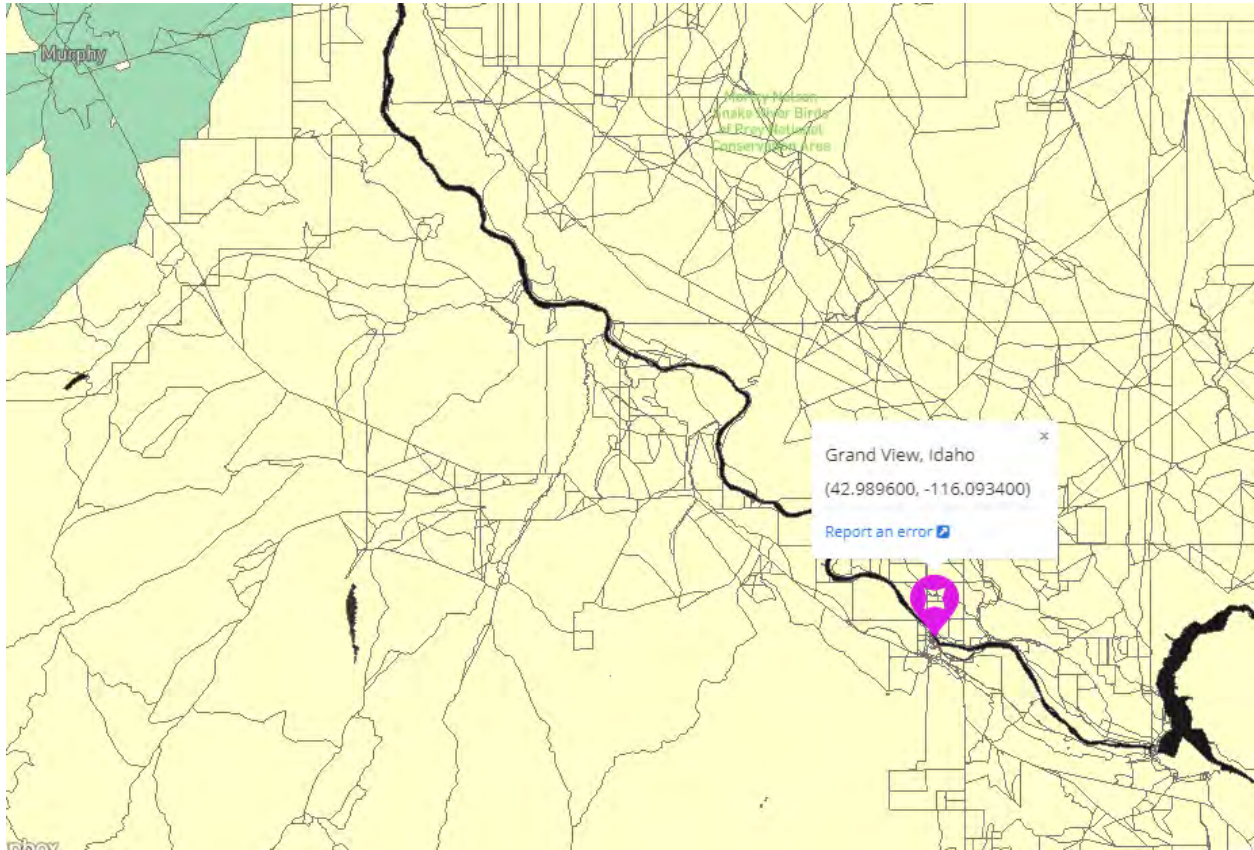
**Bruneau Grand View Joint School District #365  
District Secretary/Assistant Business Manager  
39678 State Highway 78  
Bruneau, Idaho 83604  
208-834-2260  
Fax: 208-834-2516**

### Speedtest Speeds mbps

- 18237 Short Cut 4.04/.889
- 18233 Short Cut Satellite/0
- 20161 Steiner 5.72/.740
- 25343 Sheep Camp 4.38/.392
- 18239 Short Cut 1.18/.238

Houses along project route and their current download/upload speeds, as measured by [broadbandnow.com/speedtest](http://broadbandnow.com/speedtest). (See Letters of Support for further.)





Census block ID: 160739502002088

### Number of Fixed Residential Broadband Providers



Provider	Tech	Down (Mbps)	Up (Mbps)
<a href="#">ViaSat, Inc.</a>	Satellite	35	3
<a href="#">Hughes Network Systems, LLC</a>	Satellite	25	3
<a href="#">CenturyLink, Inc.</a>	ADSL	20	1.5
<a href="#">VSAT Systems, LLC</a>	Satellite	2	1.3

### Broadband

**Technology** ADSL, Cable, Fiber, Fixed Wireless, Other  
**Speed** ≥ 25/3 Mbps  
**Date** June 2019 (latest public release)



Boise  
10350 W. Emerald  
Boise, ID 83704  
(208)332-0188

Twin Falls  
460 Main Ave S  
Twin Falls, ID 83301  
(208)736-0188

<http://www.tek-finity.com>

The new fiber will provide access to direct fiber internet access to homes along the route and in the city of Grand View. In addition to the homes passed, the LTE micro-pop service can serve 1,129 homes up to 4 miles away from the fiber route. The packages are listed below.

Fiber

50M	\$34.95 per month
100M	\$64.95 per month
1000M	\$84.95 per month

LTE

5M	\$34.95 per month
10M	\$54.95 per month
15M	\$64.95 per month
20M	\$74.95
25M	\$84.95

The blue line depicts the new fiber route starting in Murphy and finishing in Grand View, the green wifi symbols are LTE micro pops extending access.







OWYHEE COUNTY BOARD OF COMMISSIONERS  
COURTHOUSE P.O. BOX 128 MURPHY, ID 83650-0128  
TELEPHONE (208) 495-2421

District 1 –Chairman - Jerry Hoagland-P O Box 128, Murphy, ID 83650 318-8308  
District 2 –Kelly Aberasturi-P O Box 128, Murphy, ID 83650 249-4405  
District 3 –Joe Merrick-P O Box 128, Murphy ID 83650 250-9005

State of Idaho Broadband Grant  
CARES Act Certification

STATE OF IDAHO, COUNTY OF OWYHEE

The undersigned, Jerry L. Hoagland, representing Owyhee County, Idaho 20381 State Highway 78 | Murphy, ID 83650, hereby swears (affirms) that:

1. I am Chairman of the Board of County Commissioners and thereby authorized to make these statements.
2. I have personal knowledge of the facts herein, and can testify completely thereto.
3. The purpose of this statement is to assure the Idaho Department of Commerce that the project will meet the CARES Act Criteria including

- i. Expenses to facilitate distance learning, including technological improvements, in connection with school closings to enable compliance with COVID-19 precautions.*
- ii. Expenses to improve telework capabilities for public employees to enable compliance with COVID-19 public health precautions.*

The costs covered are necessary expenditures to be incurred 1) due to the public health emergency with respect to the Coronavirus Disease 2019 (COVID-19); 2) were not accounted for in the budget most recently approved as of March 27, 2020 (the date of enactment of the CARES Act) for Owyhee County; and 3) will be incurred during the period that begins on March 1, 2020, and ends on December 30, 2020

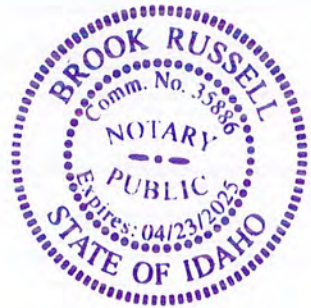
Jerry Hoagland  
Signature

7/13/20  
Date

SUBSCRIBED AND SWORN before me on this 13<sup>th</sup> day of July 2020

Brook Russell

Notary Public for Idaho  
Residing at Homedale, ID  
Commission expires April 23, 2025



Jim Desmond  
Owyhee County Emergency Services Coordinator  
P.O. Box 128  
Murphy, ID 83650

July 15, 2020

Ms. Sarah Kipper  
Owyhee County 911 Coordinator  
P.O. Box 128  
Murphy, ID 83650

Re: Letter of Support for 3 Cares Act Broadband Grant Applications Submitted by Owyhee County

This document will be delivered via email to [skipper@co.owyhee.id.us](mailto:skipper@co.owyhee.id.us)

Dear Ms Kipper:

I am aware of the specifics of the two Household and one Public Safety grant applications you have developed for potential funding approval.

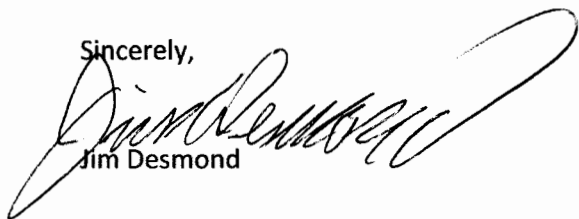
I have been the Owyhee County Emergency Services Coordinator since October of 2008. From 2002 I have been engaged in a variety of other contracted functions for the Board of Owyhee County Commissioners that include Natural Resources Committee Director, Murphy Airport Manager, and Staff Assistant to the Board. Prior to the beginning of contract work, I was employed by the County as an Appraiser in the Office of the County Assessor. In that job, I traveled extensively in the "back country" of the county as well as in the more developed areas along the Snake River from the Hammet Bridge to Givens Hot Springs, performing property appraisals.

I know the county well from those previous and current jobs and am familiar with the challenges to communication that were then, and still are, making life more difficult for Owyhee County Residents than for those in more populated areas. I know that the county's per capita income is 42<sup>nd</sup> of 44 Idaho Counties and I know that means that we are unlikely to attract a commercial operator willing to make the broadband infrastructure investment necessary to bring Owyhee County on par with our neighboring counties of Ada and Canyon.

As the County Emergency Services Coordinator I have seen the adverse impact that the lack of reliable and high speed internet access has caused for several of our first responder entities. As you know, our first responders are nearly all small, independent organizations with little funding. With the exception of the Owyhee Sheriff's Office and the Homedale PD, our first responder entities are comprised of volunteer members serving their communities. They do this service while working other jobs and they often struggle to provide the information required during this Covid-19 event. In order for our responders to receive assistance in obtaining very scarce personal protective equipment (PPE), our medical responders are being required to post daily to two separate internet based PPE monitoring systems. Our fire and Law Enforcement responders are required to post daily in one internet based system. In many cases the slow and/or unreliable internet access we have in even our more populated areas makes this seemingly manageable task quite difficult. Your proposed broadband grants will go a long way toward rectifying this problem.

I strongly support the need for the grants to provide increased access and improved access via broadband as detailed in your grants.

Sincerely,

A handwritten signature in black ink, appearing to read "Jim Desmond", written in a cursive style. The signature is positioned to the right of the typed name "Jim Desmond".

Jim Desmond

**OWYHEE COUNTY**

P.O. Box 313 Marsing, ID 83639

Aaron Tines, Coroner



**CORONER'S OFFICE**

(208) 896-4266

July 15, 2020

To: Whom it may Concern

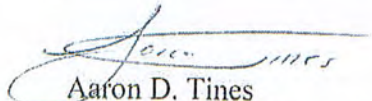
From: Aaron D. Tines, Owyhee County Coroner

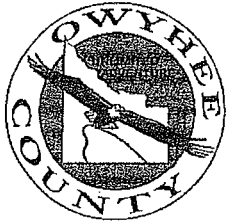
Re: Letter of Support

As a representative of Owyhee County, the Owyhee County Coroner's Office is pledging our support for Owyhee County's application for the Murphy to Rimrock School Broadband to Households Critical Infrastructure Project 2.

Having high-speed broadband connections are critical as we move forward in the recovery process, as well as fulfilling public safety connectivity needs in the future. This project will increase the broadband accessibility and capacity to the critical infrastructure facilities identified in the project.

Thank you for your time and consideration.

  
Aaron D. Tines  
Owyhee County Coroner



**ANGELA BARKELL**  
**OWYHEE COUNTY**  
**CLERK OF THE DISTRICT COURT**  
**EXOFFICIO AUDITOR RECORDER**

**TRINA AMAN**  
**CHIEF DEPUTY**  
taman@co.owyhee.id.us

20381 State Hwy 78  
PO Box 128  
Murphy, Idaho 83650  
abarkell@co.owyhee.id.us

July 15, 2020

To: Whom it may Concern


From: Angela Barkell, Owyhee County Clerk of the District Court, Ex-officio Auditor and Recorder

Re: Letter of Support

As a representative of Owyhee County, the Clerk's office is pledging our support for Owyhee County's application for the Murphy to Rimrock School Broadband to Households Critical Infrastructure Project 2.

Having high-speed broadband connections are critical as we move forward in the recovery process, as well as fulfilling public safety connectivity needs in the future. This project will increase the broadband accessibility and capacity to the critical infrastructure facilities identified in the project.

Thank you for your time and consideration.

  
Angela Barkell



## OWYHEE COUNTY SHERIFF'S OFFICE

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To: Whom it may Concern

From: James Vincent, LT.

Re: Letter of Support

As a representative of Owyhee County, the Owyhee County Sheriff's Office is pledging our support for Owyhee County's application for the Murphy to Rimrock School Broadband to Households Critical Infrastructure Project 2.

Having high-speed broadband connections are critical as we move forward in the recovery process, as well as fulfilling public safety connectivity needs in the future. This project will increase the broadband accessibility and capacity to the critical infrastructure facilities identified in the project.

Thank you for your time and consideration.

James Vincent

*Perry S. Grant*

SHERIFF



*J. Lynn Bowman*

CHIEF DEPUTY

---

P.O. BOX 128 · MURPHY, ID 83650

OFFICE 208-495-1154

7/14/2020

To: Whom it may Concern

From: Perry Grant, Owyhee County Sheriff

Re: Letter of Support

As a representative of Public Safety in Owyhee County, the Owyhee County Sheriff's Office is pledging our support for Owyhee County's application for the Murphy to Rimrock School Broadband to Households Critical Infrastructure Project Broadband to Households Critical Infrastructure Project 2.

Having high-speed broadband connections to our Public Safety Facility is critical as we move forward in the recovery process, as well as fulfilling public safety connectivity needs in the future. This project will increase the broadband accessibility and capacity to the critical infrastructure facilities identified in the project.

Thank you for your time and consideration.

Perry S. Grant

A handwritten signature in black ink, appearing to be "Perry S. Grant", written in a cursive style.

Owyhee County Sheriff



**OWYHEE COUNTY  
PROSECUTING ATTORNEY  
JEFFREY L. PHILLIPS**

OWYHEE COUNTY COURTHOUSE  
P.O. BOX 128  
MURPHY, IDAHO 83650

**DEPUTY PROSECUTOR  
SAMUEL N. DICKINSON**

PHONE  
208-495-1153

FAX  
208-495-2592

To: Whom it may Concern

From: Jeffrey L. Phillips, Owyhee County Prosecuting Attorney

Re: Letter of Support

As a representative of Owyhee County, the Owyhee County Prosecuting Attorney is pledging our support for Owyhee County's application for the Murphy to Rimrock School Broadband to Households Critical Infrastructure Project 2.

Having high-speed broadband connections are critical as we move forward in the recovery process, as well as fulfilling public safety connectivity needs in the future. This project will increase the broadband accessibility and capacity to the critical infrastructure facilities identified in the project.

Thank you for your time and consideration.

Thank You,

Jeffrey L. Phillips  
Owyhee County Prosecuting Attorney



Tiffany Nettleton Tuttle  
14549 Joyce Ranch Road  
Murphy, ID 83650  
208-834-2121

Re: Letter of Support for Broadband Project

To whom it may concern,

My family and I are pledging our support for Owyhee County's application for the Murphy to Rimrock School Broadband to Households Critical Infrastructure Project 2. As residents in rural Owyhee County, we strongly support this application through the CARES (The Coronavirus Aid, Relief, and Economic Security) Act funding and are very excited for the opportunities this funding will provide to install broadband service options for rural residents.

We understand the need to provide the businesses and residents of Owyhee county with highspeed and reliable broadband services. Our current internet speeds are extremely slow and the internet at our home goes out on a very regular basis. When we first had to move into online schooling due to covid, my kids could not even turn in assignments because the upload speeds were so slow. Our internet also went out for about 2 weeks during that time and we had to find other places to use the internet. We do not have cell service where we live so our internet connection is even more vital!

Having high-speed broadband connections are critical to the county as a whole as we move forward in the recovery process, and will help fulfil public safety connectivity needs in the future. This project will increase the broadband accessibility and capacity to the critical infrastructure facilities identified in the project. It will also help citizens who seriously need high-speed internet.

Thank you for your time and consideration.

Sincerely,

A handwritten signature in blue ink that reads "Tiffany Tuttle". The signature is written in a cursive style with a large initial "T".

Tiffany Nettleton Tuttle

To: Whom it may Concern

From: Sgt. Greg Bishop

Re: Letter of Support

As a representative of Owyhee County, the Owyhee County Sheriff's Office is pledging our support for Owyhee County's application for the Murphy to Rimrock School Broadband to Households Critical Infrastructure Project 2.

Having high-speed broadband connections are critical as we move forward in the recovery process, as well as fulfilling public safety connectivity needs in the future. This project will increase the broadband accessibility and capacity to the critical infrastructure facilities identified in the project.

As a road deputy for the Owyhee County Sheriff's Office I have seen first hand the challenges faced by not only our residents face but those traveling through our jurisdiction due to the lack of access to high-speed broadband connections. Technology is evolving at such a fast pace and our county is struggling to meet the demands of those we serve. During this difficult time of social distancing or one could even call it isolation it is more important than ever for our county population to stay connected and be able to conduct needed communications. This project could very well help save lives as well as mitigate the need for unnecessary risk to first responders.

Thank you for your time and consideration.

Sgt. Greg Bishop

To: Whom it may Concern

From: Don Best / Owyhee County Road & Bridge Dist III Supervisor

Re: Letter of Support

As a representative of Owyhee County, the Owyhee County Road & Bridge Dist III is pledging our support for Owyhee County's application for the Murphy to Rimrock School Broadband to Households Critical Infrastructure Project 2.

Having high-speed broadband connections are critical as we move forward in the recovery process, as well as fulfilling public safety connectivity needs in the future. This project will increase the broadband accessibility and capacity to the critical infrastructure facilities identified in the project.

Thank you for your time and consideration.

**Don Best**

Thomas Cattle Company  
18239 Short Cut Rd.  
Oreana, ID 83650

RE: Owyhee County

Letter of Support

Dear Chairman Hoagland:

As a business owner in rural Owyhee County, we very strongly support the Idaho Broadband Grant application through the CARES (The Coronavirus Aid, Relief, and Economic Security) Act funding in our community and are very excited for the opportunities this funding will provide to install broadband service options for our rural residents.

We understand the need to provide the businesses and residents of Owyhee county with highspeed and reliable broadband services.

Using the speed test at <https://broadbandnow.com/speedtest>, our current internet speeds are **1.18 Mbps** download, and **231.00 kb/s** upload.

We operate in Oreana and also operate a ranch in a rural Oregon community that offers fiber internet. The difference between trying to run a business in a rural area there versus in Oreana is significant. A majority of the systems and programs that we use are linked through the internet, so when it is unreliable and your community is the lowest priority for resolution due to population density, it makes it difficult.

At our home, we operate two small businesses and during COVID, I have done my town job from home. It has been a significant challenge to run our businesses and do my day job remotely with poor internet that connects then disconnects 10 – 20x per day.

Rural America contributes a large portion of this nation's economy. We are hopeful that with this grant, we can continue to grow and prosper in our rural community with reliable, significantly faster broad band internet.

Thank you in advance for taking the time to read this letter of support.

Sincerely,

Seth & Elizabeth Thomas  
Logan Thomas  
Thomas Cattle Company

Elias and Laura Gonzalez  
18237 Short Cut Rd  
Oreana, ID 83650

RE: Owyhee County  
Letter of Support

Dear Chairman Hoagland:

As a resident in rural Owyhee County, we strongly support the Idaho Broadband Grant application through the CARES (The Coronavirus Aid, Relief, and Economic Security) Act funding in our community and are very excited for the opportunities this funding will provide to install broadband service options for our rural residents.

We understand the need to provide the businesses and residents of Owyhee county with highspeed and reliable broadband services. Using the speed test at <https://broadbandnow.com/speedtest>, our current internet are 4.04 Mbps download, and 8.89 Mbps upload.

Having access to high speed internet will greatly enhance the ability for our children to do their online learning, along with possible college courses in the future. We also do some work from home/telecommuting, and the highspeed internet would really help with that as well.

Thank you in advance for taking the time to read this letter of support.  
Sincerely,

Elias and Laura Gonzalez

Scott Snyder  
25343 Sheep Camp Rd  
Grand View, ID 83624

RE: Owyhee County  
Letter of Support

Dear Chairman Hoagland:

As a resident in rural Owyhee County, I strongly support the Idaho Broadband Grant application through the CARES (The Coronavirus Aid, Relief, and Economic Security) Act funding in our community and are very excited for the opportunities this funding will provide to install broadband service options for our rural residents.

I understand the need to provide the businesses and residents of Owyhee county with highspeed and reliable broadband services.

Using the speed test at <https://broadbandnow.com/speedtest>, our current internet are 4.38 Mbps download, and 0.392 Mbps (392..00kb/s) upload.

Accessing online learning/training, accessing online college courses, work from home for telecommuting, more job potential with remote access, online certification are all ways that the service could enhance my capabilities.

Thank you in advance for taking the time to read this letter of support.

Sincerely,  
Scott Snyder

Steve and Mandi Boren  
20161 Steiner Valley Road  
Oreana, Idaho 83650

RE: Owyhee County Internet  
Letter of Support

Dear Chairman Hoagland:

As rural residents in Owyhee County, we strongly support the Idaho Broadband Grant application through the CARES (The Coronavirus Aid, Relief, and Economic Security) Act funding in our community. We are very excited for the opportunities this funding will provide to install broadband service options for our rural residents.

We understand the need to provide the businesses and residents of Owyhee county with highspeed and reliable broadband services. Using the speed test at <https://broadbandnow.com/speedtest>, our current internet speeds are 5.72 Mbps download, and .740 Mbps upload.

Efficient internet access is essential to our way of life. We have six school-aged children and nothing has brought the need of better internet service to our attention more than COVID-19 has.

Currently the only internet service option we have is satellite which is not reliable nor is it competitively priced. With so many students all online at the same time trying to communicate with classmates and teachers and sharing documents, remote learning was impossible to achieve.

I also work from home as a reporter for our local county newspaper. I often need to share large documents, photos and upload audio files. Often times I have to do this overnight because our speeds are just too slow.

I teach an online class and my children also take online classes. There have been many times that we have had to drive 19 miles to the library in Grand View to fully participate in classes. This would be a game changer to be able to do this at all hours from home.

I urge you to please help us get better internet services. If you need any help with this please let me know and I would be happy to help write the grant, edit or whatever you need.

Thank you for taking the time to read this letter of support.

Sincerely,  
Mandi Boren

Oreana, Idaho  
208-834-2136

Arrow B Ranches, LLC  
20161 Steiner Valley Road  
Oreana, Idaho 83650

RE: Owyhee County Internet  
Letter of Support

Dear Chairman Hoagland:

As a business owner in rural Owyhee County, we strongly support the Idaho Broadband Grant application through the CARES (The Coronavirus Aid, Relief, and Economic Security) Act funding in our community. We are very excited for the opportunities this funding will provide to install broadband service options for our rural residents.

We (I) understand the need to provide the businesses and residents of Owyhee county with highspeed and reliable broadband services.

Using the speed test at <https://broadbandnow.com/speedtest>, our current internet speeds are 5.72 Mbps download, and .740 Mbps upload.

Efficient internet access is essential to our business when doing research, ordering parts, communicating with workers who live overseas, exchanging electronic documents with many government entities and banks and taking continuing education classes to keep licenses current.

Currently all that is available in our area is satellite internet which is not reliable nor is it competitively priced. Reliable high-speed internet would be a huge benefit to our operations.

Thank you for taking the time to read this letter of support.

Sincerely,  
Steve Boren  
Arrow B Ranches, LLC.



Morgan and Robin Monahan

1080 Short Cut Road

Oreana, ID 83650

RE: Owyhee County

Letter of Support

Dear Chairman Hoagland:

As a resident in rural Owyhee County, we strongly support the Idaho Broadband Grant application through the CARES (The Coronavirus Aid, Relief, and Economic Security) Act funding in our community and are very excited for the opportunities this funding will provide to install broadband service options for our rural residents.

We understand the need to provide the businesses and residents of Owyhee county with highspeed and reliable broadband services.

Using the speed test at <https://broadbandnow.com/speedtest>, our current internet are 12 Mbps download, and 3 Mbps upload.

We also run a small business out of our home which needs internet to run successfully. We also have a 19 year old son who is attending Treasure Valley Community College and is unfortunately the school has moved to all online classes with most involving Zoom meetings. Our current internet does support that type of learning environment.

Thank you in advance for taking the time to read this letter of support.

Sincerely,

Morgan and Robin Monahan

Christina Griswold

18233 Shortcut Road

Oreana, ID 83650

RE: Owyhee County

Letter of Support

Dear Chairman Hoagland:

As a resident in rural Owyhee County, we strongly support the Idaho Broadband Grant application through the CARES (The Coronavirus Aid, Relief, and Economic Security) Act funding in our community and are very excited for the opportunities this funding will provide to install broadband service options for our rural residents. We understand the need to provide the businesses and residents of Owyhee county with highspeed and reliable broadband services.

The internet provider we were using was overcharging, and the internet wasn't very good at all, so we eventually quit using it because it wasn't worth the price for what we received. We live in Oreana & it would be amazing to have another internet option. Thank you for doing your best to give us this option!

Thank you in advance for taking the time to read this letter of support.

Sincerely,

Christina Griswold

## Idaho CARES Act Broadband Grant – Project Schedule

Activity	Responsible Party
Pre-Project Meetings	RIVDA/TEKFINITY/OWYHEE COUNTY
MOU Signed	Board of Owyhee County Commissioners Chairman (BOCCC)
Certification Signed	BOCCC
Grant Submitted	Owyhee County
Project Start-up	TEKFINITY
50% Completion	TEKFINITY
Substantial Completion	TEKFINITY
100% Completion	TEKFINITY
Operable	TEKFINITY
Documents submitted	RIVDA
Final Closeout	RIVDA/ISP/BOCCC

Start Date	End Date
7/6/2020	Ongoing
7/13/2020	7/13/2020
7/13/2020	7/13/2020
7/15/2020	7/15/2020
8/1/2020	Ongoing
-	9/30/2020
-	10/15/2020
11/1/2020	11/1/2020
11/1/2020	11/1/2020
11/16/2020	12/15/2020
-	12/15/2020

# State of Idaho Public Broadband Grant Application Public Safety/Local Government

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Applicant	Mary Cordova
Applicant ID	APP-004165
Company Name	Payette
Recipient Address	Payette 700 Center Ave Payette, ID 83661
Phone	(208) 642-6024
Email	mcordova@cityofpayette.com
Amount Requested	\$175,000.00
Status	Submitted
Funded	<input type="checkbox"/>

Application Title: Payette Public Safety Fiber Project

## Applicant Information

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**NOTICE: Grant applications, challenges, and responses to challenges will be posted to the Idaho Department of Commerce website**

### Purpose:

The CARES Act funding received by the State of Idaho will fund projects across the state that create and retain local jobs and result in purposeful outcomes, including distance learning, telehealth public safety, commerce, and overall well-being. This CFAC Broadband Grant initiative grant program (the "Program for Public Safety and Local Government") is designed to meet the CARES Act criteria, and help Idaho rebound from the COVID-19 Emergency. Approximately 20% of the total of \$50 million received by the Idaho Department of Commerce will be allocated to this program aimed at public safety organizations and local governments that lack access to broadband.

**• Projects must be completed and grant funds requested and dispersed before December 15th, 2020.**

**Question:** Contact information of applicant: Name Title Mailing Address City/Zip Email Phone

City of Payette, 700 Center Avenue, Payette, 83661 208-642-6024

**Question:** List the cities/communities where the project(s) will take place.

City of Payette

**Question:** Enter the zip code(s) where the project will take place.

83661

**Question:** Enter name and title of designated grant administrator

Mary Cordova, Administrator

**Question:** Enter the email of the designated grant administrator

mcordova@cityofpayette.com

**Question:** Enter the phone number of the designated grant administrator

208-642-6024

## Project Requirements

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### PROJECT REQUIREMENTS

- Be infrastructure investment, associated equipment, and accessories related to broadband capable of speeds of 1,000 Mbps download and 1,000 Mbps upload symmetrical.
- Be related to broadband with fiber to:
  - One (1) designated government facility: and
  - One (1) location for public Wi-Fi access where 100 citizens could simultaneously access minimum broadband speeds at 25 Mbps download and 3 Mbps upload while practicing physical distancing. Examples of locations include a municipal building parking area or a municipal park.
- Meet the CARES Act criteria, which is designed to address key areas of public health and safety by improving opportunities to telework, facilitate distance learning, and improve public safety.
- Be a project that does not overbuild existing broadband infrastructure at the required speeds to a local government facility for public safety and local governance.
- Applicants may own and maintain the infrastructure but make such infrastructure open and available for broadband service from only for-profit companies, or membership owned cooperative corporations as defined in [Idaho Code Title 30, Chapter 30](#) that provide broadband services to the services to the public.
- Be completed, operable, paid for, and submitted to the Idaho Department of Commerce for payment no later than December 15, 2020.
- Include broadband infrastructure and equipment costs meeting CARES Act criteria. Satellite service is not eligible for grant award.

**Question:** Does your project meet the CARES Act criteria?

Yes

No

**Question:** Project provides a minimum of 1,000Mbps download and 1,000Mbps upload symmetrical to public facility and access by citizens in municipal park or parking area where a minimum of 100 citizens could have access simultaneously at 25Mbps download/3Mbps upload.

Yes

No

**Question:** Does your project provide high speed service within the applicant's proposed facility for public safety, local governance, and or one (1) open access municipal location nearby for public access for emergencies.

Yes

No

**Question:** Applicants may own and maintain the infrastructure but must make such infrastructure open and available for broadband service from only for-profit companies, or membership owned cooperative corporations that provide broadband services to the public.

Yes

No

**Question:** I understand that the State of Idaho will provide no funding and have no obligations for projects that fail to be completed by December 15, 2020.

Yes

No

## Scored Criteria

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**Question:** Provide an overview of the project including why the project is important and will address broadband needs of the community.

Public Safety is a priority for the City Council and for City staff. Law Enforcement Officers and Fire Fighters work incredibly hard, and smart technology can help them respond quicker and

work more efficiently.

The Payette Police and Fire Departments will benefit from fiber to connect agencies with one another and provide added redundancy for mission critical applications. The connectivity improvements from interconnecting the multiple public safety agencies on a single, robust fiber backbone will improve communication in the event of an emergency and will preserve opportunities for future enhancement. The Payette County Sheriff's Office, who our agencies are dispatched by, is currently connected to fiber. The City's public safety personnel work closely with Payette County, and our Fire Department has been designated as the emergency backup location for Payette County in the event of a disaster.

In addition to greatly improving public safety communications, enabling fiber connectivity along the fiber line could facilitate the installation of surveillance cameras, traffic cameras and license plate recognition technologies. The network will provide very high capacity to support many high-definition video feeds and route these to the first responders that need them both in the field and at police and fire station.

**Question:** Is your project in an area where no local government facility has the internet speeds and bandwidth described 1000 Mbps download and 1000 Mbps upload symmetrical?

Yes

No

**Question:** Is your project in an area where no public park, municipal parking area, or similar access area for physical distancing has broadband speed to support 100 citizens at 25 Mbps download and 3 Mbps upload?

Yes

No

**Question:** Is the project in a town/city/municipality of less than 3,000 people?

Yes

No

**Question:** Does the project address a need as identified in a local or regional broadband plan? If yes, please describe.

The City of Payette has not participated in a local or regional broadband plan, nor have we knowledge of one in our rural community or have the funding to pay for such a plan ourselves. However, in our recently updated Comprehensive Plan, preserving and enhancing the City's public safety services is an identified goal. In addition, pursuing the feasibility of broadband communications for the community as a strategy to meet the future needs of the community and to attract business is identified throughout the Plan.

**Question:** Will this project be in conjunction with another broadband grant for Households?



Yes

No

## Additional Requirements

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Upload Supporting Documents for scope of project including maps, site plans, studies, or photographs, demonstrating the location of the project.

### Project Attachment Templates:

[CARES Act Certification](#)

[Grant Budget Template](#)

[Project Schedule Form](#)

[Letters of Support/Community match template](#)

**Question:** Estimated total project cost?

175000.00

**Question:** List the underserved and unserved community facilities (schools, libraries, government offices, hospitals, public safety, etc.) within the proposed project area.

All municipal facilities are underserved in the City of Payette. It is our understanding that the schools and the County Courthouse already have fiber access, but municipal facilities, businesses and homeowners do not have this connectivity. Receiving this grant would have tremendous potential to foster economic development, distance learning, e-commerce, e-government, telemedicine, and public safety. It would spur the opportunity to bring together city staff, residents, community organizations, nonprofits, schools, library, faith-based communities, and others to hear directly from those who are impacted by lack of access and can lead to collaborative problem solving, shared ownership of the solution, and a develop a plan to seek additional funding available to add additional technology infrastructure in the future and take steps to make our City safe, healthy, and economically viable.

**Question:** What is the maximum broadband speed that will be provided by the project?

1000 Mbps download and 1000 Mbps upload

**Question:** Are permits, permissions, rights of way and zoning requirements readily available in order for the project to be completed and paid for by December 15, 2020?

Yes, the City of Payette will work very closely with Farmers Mutual Telephone to ensure the project is completed in a timely and efficient manner.

**Question:** If answered no in previous question, please describe. If the project does not require any of the above answer N/A.

N/A

**Question:** Describe how the project will be administered, audited for completion, and accounting performed.

The City of Payette will provide grant administration. Farmers Mutual Telephone Company (FMTC) will provide to the City a list of materials to be used in the Fiber Optic construction process, including handholes, conduit and fiber optic cable. FMTC will keep the City informed of the construction process with documentation so that the City can audit the process as necessary.

**Question:** Include any other information regarding why your project should be considered for funding.

Rural communities such as Payette do not often have an opportunity such as this to upgrade our communication transport facilities in order to provide the very best technology for our public safety personnel, and ultimately our citizens. Not only will this project keep people employed during construction amidst these uncertain times, the technology itself is becoming increasingly important to cope with the rapid growth in connected devices, from utility assets, to street lights, to traffic signals, to surveillance cameras. Cities that deploy these networks are able to become more efficient, reduce costs and increase the value they deliver to their constituents.

**Question:** Upload Supporting Documents for scope of project including maps, site plans, studies, or photographs, demonstrating the location of the project.

[Fire Station Project.pdf](#) (7/15/2020 4:45 PM)

[Police Station Project.pdf](#) (7/15/2020 4:45 PM)

**Question:** Upload the completed Grant Budget Template for the project that outlines the various costs.

[Idaho-Cares-Act-Broadband-Grant-Budget-Template.pdf](#) (7/15/2020 4:43 PM)

**Question:** Complete the Project Schedule Form

[Project Schedule.pdf](#) (7/15/2020 4:51 PM)

**Question:** Include any Letters of Support or Community Match from the community.

No Attachments

**Question:** Provide a copy of your Community Broadband Plan if applicable.

No Attachments

**Question:** Provide a notarized CARES Act Certification that this project meets the CARES Act criteria.

[Payette CARES Act Certificaton.pdf](#) (7/15/2020 4:43 PM)

**Question:** Provide commitments from community anchor institutions or public safety networks which will utilize your service if the project is funded.

No Attachments

**Question:** Map of the project area demonstrating the insufficient availability of broadband service for a public facility symmetrical service and in the proposed public service area for 100 citizens using minimum service.

[cityhall.pdf](#) (7/15/2020 4:55 PM)

**Question:** Map of the project area which includes the public facility and public service area, the broadband speeds provided, the fiber, and the technology used to provide the services.

[firestation and park.pdf](#) (7/15/2020 4:53 PM)

[cityhall.pdf](#) (7/15/2020 4:52 PM)

## Signature

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Your identity has been authenticated through the login process with a unique email address and password available only to you. You agree that by typing your name, title and date below, you are electronically signing the application. By electronically signing the application, you acknowledge and represent that you understand and accept all the terms and conditions stated within the application and declare that the information provided is true and that the documents you are submitting in support of your application are genuine and have not been altered in any way.

**Question:** Type your name.

Mary Cordova

**Question:** Type your title.

City Clerk, City Treasurer, Coordinator

**Question:** Type the submission date.

July 15, 2020



**Idaho CARES Act Broadband Grant Budget**

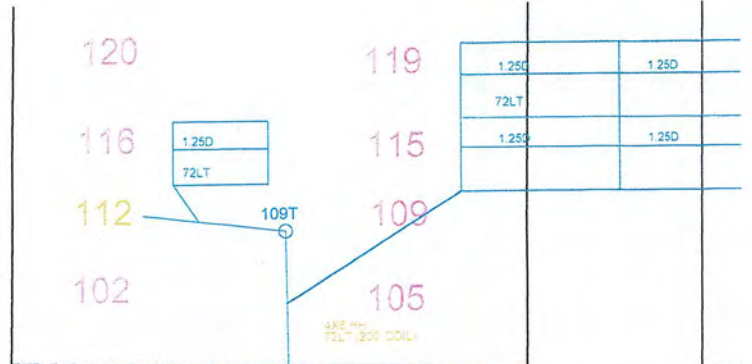
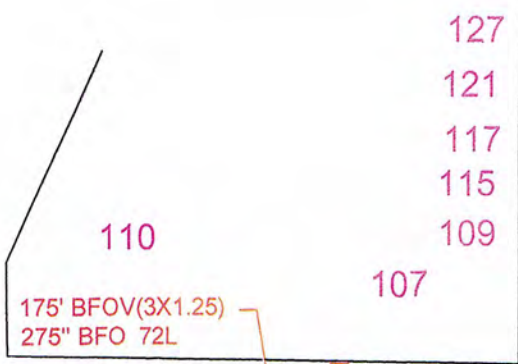
<b>Line Item</b>	<b>Grant Dollars</b>				<b>Total</b>
<b>Totals</b>					

Date

7/14/2020

	JOB NUMBER	PAYETTE CITY HALL					
UNITS	DESCRIPTION	QUANTITY	LABOR	MATERIALS	EXTENDED	TOTAL	
BFO72I	PULL FIBER	1390	\$ 1.63	\$ 0.31	\$ 1.94	\$2,696.60	
BFOV(3X1.25)	PULL 3X1.25" CONDUIT	990	\$ 4.99	\$ 0.92	\$ 5.91	\$5,850.90	
SEBV(1X.75)	DROP CONDUIT	100	\$ 14.39	\$ 0.18	\$ 14.57	\$1,457.00	
BM2(5/8)(8)	GROUND ROD	4	\$ 10.00	\$ 16.58	\$ 26.58	\$106.32	
BM61(4)D	4" BORE	990	\$ 22.90		\$ 22.90	\$22,671.00	
SEBF 4IL	PULL 4 FIBER DROP	200	\$ 2.00	\$ 0.23	\$ 2.23	\$446.00	
HBFO(72)	PLP9.5X19 SPLICE CASE	5	\$ 476.00	\$ 388.11	\$ 864.11	\$4,320.55	
BHF(30X48X36)T	HAND HOLE (30X48X36)	4	\$ 829.30	\$ 705.65	\$ 1,534.95	\$6,139.80	
BM55	LOCATE AND MARKER POST	4	\$ 52.52	\$ 58.18	\$ 110.70	\$442.80	
HO 1	SPLICE	70	\$ 35.00	\$ 0.25	\$ 35.25	\$2,467.50	
ONT HB3	INSTALL ONT	1	\$ 120.00	\$ 32.33	\$ 152.33	\$152.33	
BM72	ASPHALT PATCH	5	\$ 500.00		\$ 500.00	\$2,500.00	
WBHF	RE-ENTER MANHOLE	1	\$ 500.00		\$ 500.00	\$500.00	
PERMITS	PERMITS CITY OF PAYETTE	1	\$ 500.00		\$ 500.00	\$250.00	
	TOTAL					\$50,000.80	

NORTH MAIN



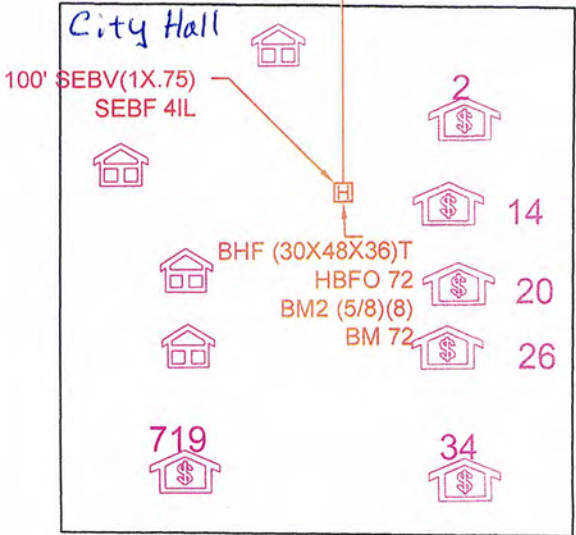
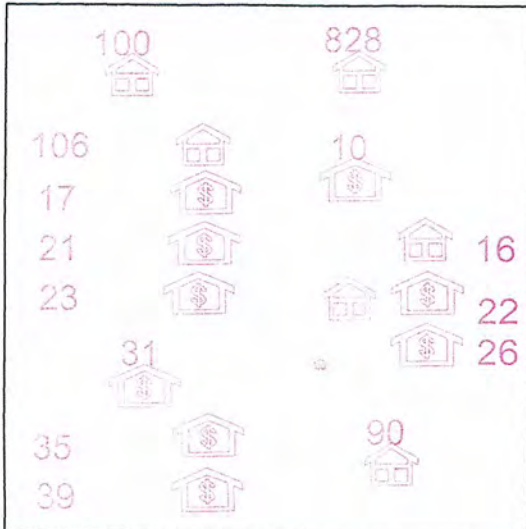
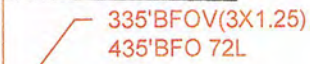
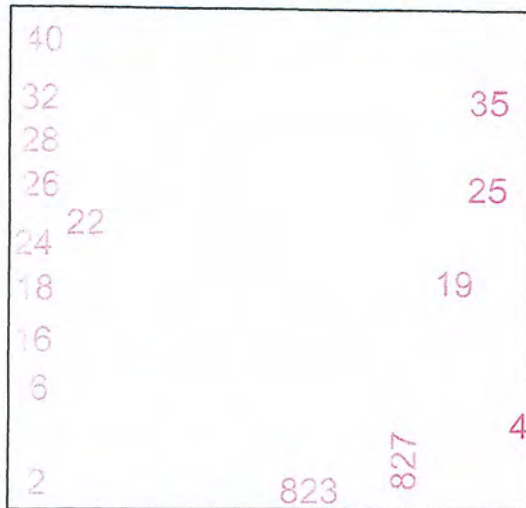
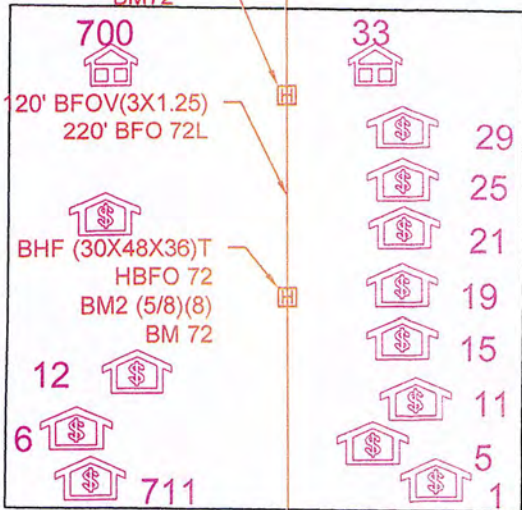
1ST AVE NORTH

SOUTH 7TH ST

NORTH 9TH ST

Center Ave.

S. MAIN



1ST AVE SOUTH



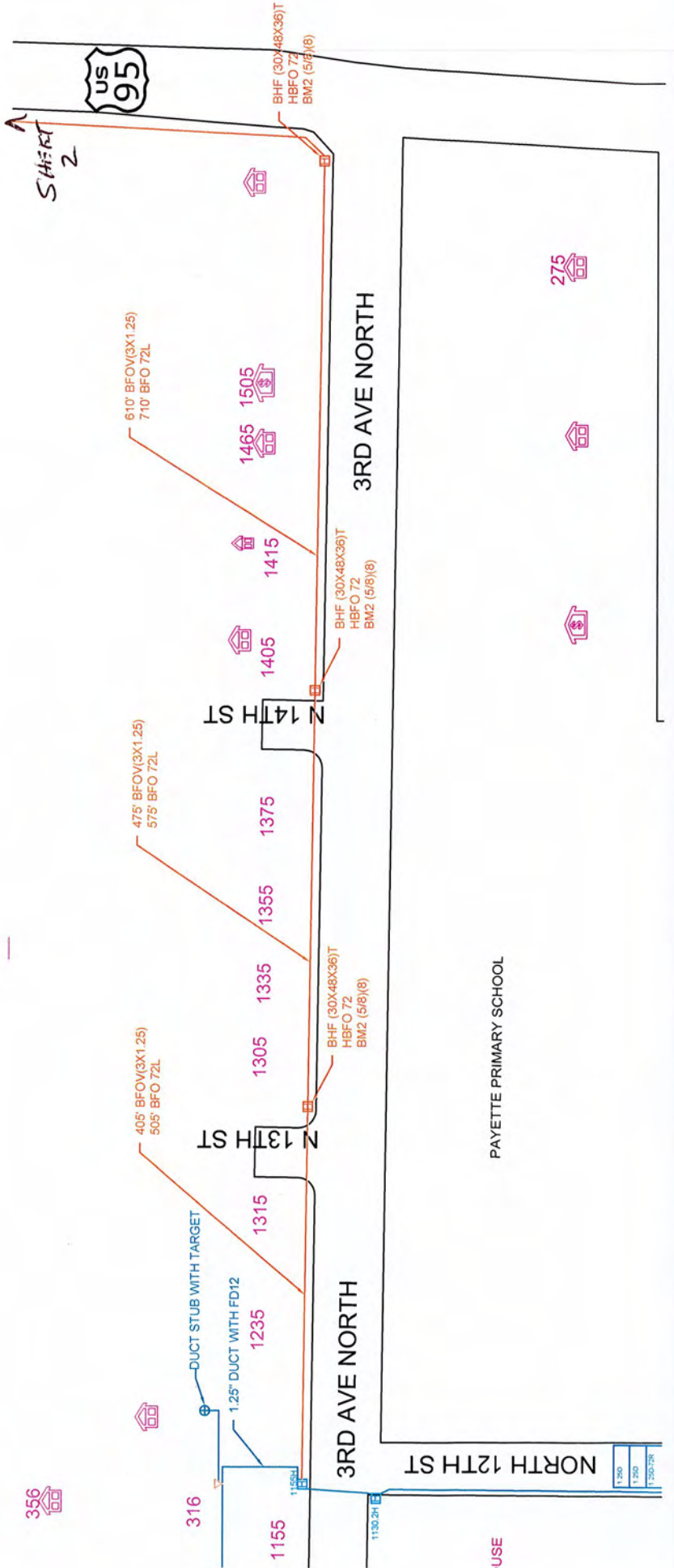


Date

7/14/2020

	JOB NUMBER	PAYETTE FIRE STATION					
UNITS	DESCRIPTION	QUANTITY	LABOR	MATERIALS	EXTENDED	TOTAL	
BFO72I	PULL FIBER	3850	\$ 1.63	\$ 0.31	\$ 1.94	\$7,469.00	
BFOV(3X1.25)	PULL 3X1.25" CONDUIT	3250	\$ 4.99	\$ 0.92	\$ 5.91	\$19,207.50	
SEBV(1X.75)	DROP CONDUIT	160	\$ 14.39	\$ 0.18	\$ 14.57	\$2,331.20	
BM2(5/8)(8)	GROUND ROD	6	\$ 10.00	\$ 16.58	\$ 26.58	\$159.48	
BM61(4)D	4" BORE	3250	\$ 22.90		\$ 22.90	\$74,425.00	
SEBF 4IL	PULL 4 FIBER DROP	260	\$ 2.00	\$ 0.23	\$ 2.23	\$579.80	
HBFO(72)	PLP9.5X19 SPLICE CASE	6	\$ 476.00	\$ 388.11	\$ 864.11	\$5,184.66	
BHF(30X48X36)T	HAND HOLE (30X48X36)	6	\$ 829.30	\$ 705.65	\$ 1,534.95	\$9,209.70	
BM55	LOCATE AND MARKER POST	6	\$ 52.52	\$ 58.18	\$ 110.70	\$664.20	
HO 1	SPLICE	140	\$ 35.00	\$ 0.25	\$ 35.25	\$4,935.00	
ONT HB3	INSTALL ONT	1	\$ 120.00	\$ 32.33	\$ 152.33	\$152.33	
BM72	ASPHALT PATCH	0	\$ 500.00		\$ 500.00	\$0.00	
WBHF	RE-ENTER MANHOLE	1	\$ 500.00		\$ 500.00	\$500.00	
PERMITS	PERMITS CITY OF PAYETTE	1	\$ 500.00		\$ 500.00	\$500.00	
	TOTAL					\$125,317.87	

SHEET 1



356

316

1155

1235

1315

1305

1335

1355

1375

1405

1415

1465

1505

275

PAYETTE PRIMARY SCHOOL

3RD AVE NORTH

3RD AVE NORTH

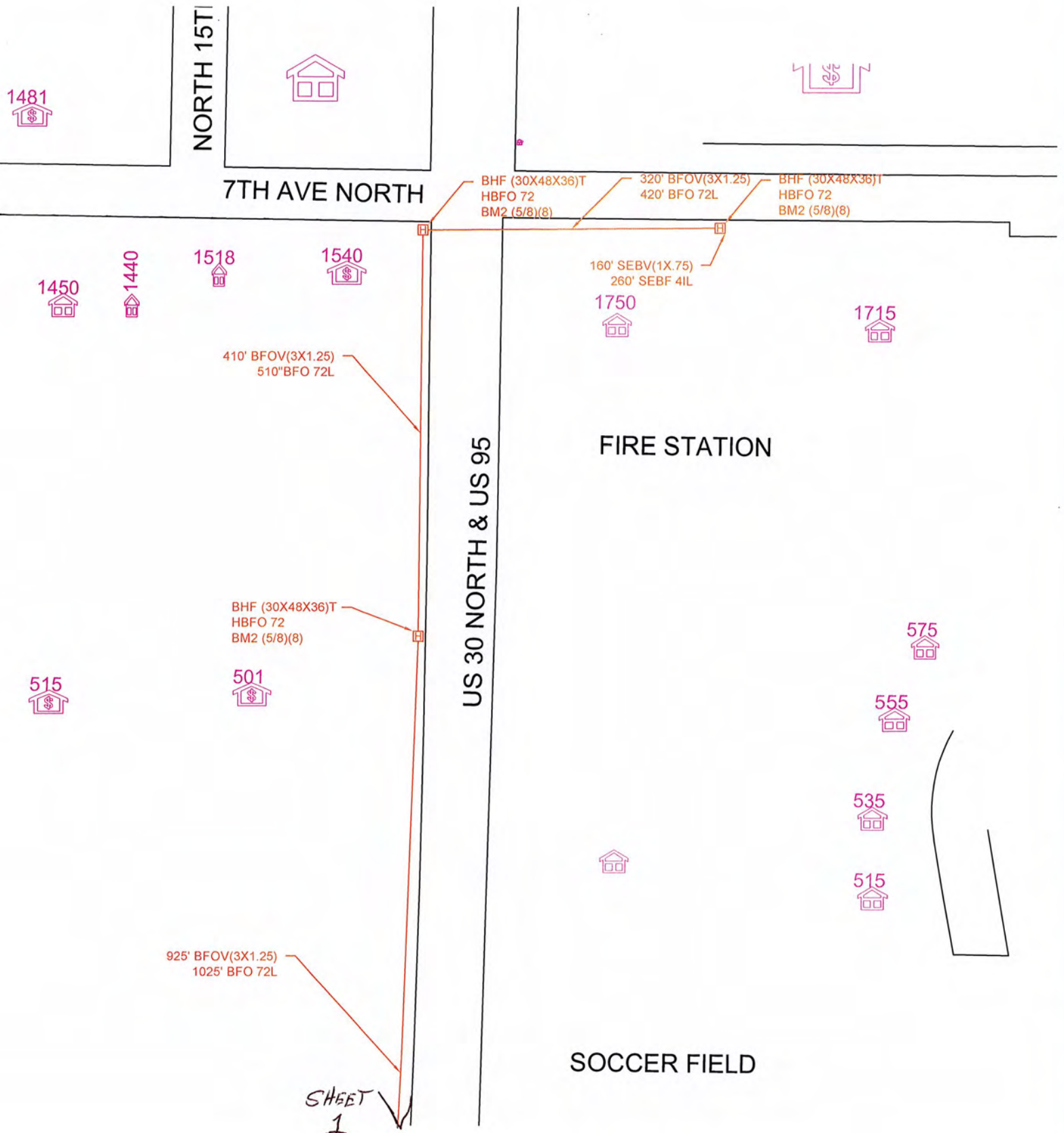
N 13TH ST

N 14TH ST

US 95

SHEET 2

USE







# State of Idaho Public Broadband Grant Application Public Safety/Local Government

Applicant	Trevor Chadwick
Applicant ID	APP-004272
Company Name	Star
Recipient Address	Star 10769 W State St Star, ID 83669
Phone	(208) 286-7247
Email	tchadwick@staridaho.org
Amount Requested	\$379,968.00
Status	Submitted
Funded	<input type="checkbox"/>

Application Title: Star Broadband Expanded Public Services Access

## Applicant Information

**NOTICE: Grant applications, challenges, and responses to challenges will be posted to the Idaho Department of Commerce website**

### Purpose:

The CARES Act funding received by the State of Idaho will fund projects across the state that create and retain local jobs and result in purposeful outcomes, including distance learning, telehealth public safety, commerce, and overall well-being. This CFAC Broadband Grant initiative grant program (the “Program for Public Safety and Local Government”) is designed to meet the CARES Act criteria, and help Idaho rebound from the COVID-19 Emergency. Approximately 20% of the total of \$50 million received by the Idaho Department of Commerce will be allocated to this program aimed at public safety organizations and local governments that lack access to broadband.

**• Projects must be completed and grant funds requested and dispersed before December 15th, 2020.**

**Question:** Contact information of applicant: Name Title Mailing Address City/Zip Email Phone

Mayor Trevor Chadwick, 10769 W State St, Star, ID 83669 tchadwick@staridaho.org  
208.286.7247

**Question:** List the cities/communities where the project(s) will take place.

City of Star

**Question:** Enter the zip code(s) where the project will take place.

83669

**Question:** Enter name and title of designated grant administrator

Cathy Ward, City Clerk

**Question:** Enter the email of the designated grant administrator

cward@staridaho.org

**Question:** Enter the phone number of the designated grant administrator

208.286.7247

## Project Requirements

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### PROJECT REQUIREMENTS

- Be infrastructure investment, associated equipment, and accessories related to broadband capable of speeds of 1,000 Mbps download and 1,000 Mbps upload symmetrical.
- Be related to broadband with fiber to:
  - One (1) designated government facility: and
  - One (1) location for public Wi-Fi access where 100 citizens could simultaneously access minimum broadband speeds at 25 Mbps download and 3 Mbps upload while practicing physical distancing. Examples of locations include a municipal building parking area or a municipal park.
- Meet the CARES Act criteria, which is designed to address key areas of public health and safety by improving opportunities to telework, facilitate distance learning, and improve public safety.
- Be a project that does not overbuild existing broadband infrastructure at the required speeds to a local government facility for public safety and local governance.
- Applicants may own and maintain the infrastructure but make such infrastructure open and available for broadband service from only for-profit companies, or membership owned cooperative corporations as defined in [Idaho Code Title 30, Chapter 30](#) that provide broadband services to the services to the public.
- Be completed, operable, paid for, and submitted to the Idaho Department of Commerce for payment no later than December 15, 2020.
- Include broadband infrastructure and equipment costs meeting CARES Act criteria. Satellite service is not eligible for grant award.

**Question:** Does your project meet the CARES Act criteria?

Yes

No

**Question:** Project provides a minimum of 1,000Mbps download and 1,000Mbps upload symmetrical to public facility and access by citizens in municipal park or parking area where a minimum of 100 citizens could have access simultaneously at 25Mbps download/3Mbps upload.

Yes

No

**Question:** Does your project provide high speed service within the applicant's proposed facility for public safety, local governance, and or one (1) open access municipal location nearby for public access for emergencies.

Yes

No

**Question:** Applicants may own and maintain the infrastructure but must make such infrastructure open and available for broadband service from only for-profit companies, or membership owned cooperative corporations that provide broadband services to the public.

Yes

No

**Question:** I understand that the State of Idaho will provide no funding and have no obligations for projects that fail to be completed by December 15, 2020.

Yes

No

## Scored Criteria

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**Question:** Provide an overview of the project including why the project is important and will address broadband needs of the community.

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This project will bring fiber optic connectivity and speed to Star City Hall and its two outlying city parks especially important during these times of COVID 19. City Hall has closed its doors to the public multiple times due to positive test results and concern for public safety. Remote working and social distancing have become critical to keeping the city functioning and its citizens productively employed.

This will provide a dedicated 1 Gbps fiber optic internet connection to the City of Star city hall upgraded equipment to integrate fiber connections to city hall's internal LAN network. The project proposes buried fiber extensions from City Hall to two city parks of the city's choosing to serve as termination points for a Community Access Network via Wi-Fi connection. This will include installation and activation of a turnkey Wi-Fi solution at these extension locations to allow the community of Star a public access community Wi-Fi network for the benefit of all your citizens.

According to EMSI Q2 2020 report, the citizenship reflects a diversity of workforce from government to Administrative Support and Professional, Scientific & Technical Services. All jobs have the ability to work remotely from home. Conversely, small businesses with less than 10 employees make up the majority of businesses located in Star. Small businesses have been effected greatly during all of the stay at home and shut down times. With a growing population reflecting 1/3 millennials and 1/3 retiring soon, the average income is less than our surrounding neighbors. Even more importantly over half of the workforce would normally travel out of Star to Boise for employment. Working from home is critical.

The Wi-Fi hot spots in this grant will allow for several geographically diverse locations for citizens to connect while being socially distanced. From actual experience, the two parks have become the social distancing locations for activity. The Hunters Creek Park has become a hub for school age children to receive assistance for educational activities. The public Wi-Fi hot spots across this network will enable citizens to stay connected to telework as well as distance learning for education.

During COVID-19 closures, the public facilities that were already equipped with fiber optic connectivity were able to easily transition to telework with the broadband capacity needed for multiple public employees to remotely simultaneously. In alignment with the CARES Act criteria, the facilities in this project once connected with fiber optic infrastructure, will bring the same level of telework functionality to public employees, students receiving long distance education and improve remote working capabilities.

**Question:** Is your project in an area where no local government facility has the internet speeds and bandwidth described 1000 Mbps download and 1000 Mbps upload symmetrical?

Yes

Yes

**Question:** Is your project in an area where no public park, municipal parking area, or similar access area for physical distancing has broadband speed to support 100 citizens at 25 Mbps download and 3 Mbps upload?

Yes

No

**Question:** Is the project in a town/city/municipality of less than 3,000 people?

Yes

No

**Question:** Does the project address a need as identified in a local or regional broadband plan? If yes, please describe.

no plan has been published yet

**Question:** Will this project be in conjunction with another broadband grant for Households?

Yes

No

## Additional Requirements

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Upload Supporting Documents for scope of project including maps, site plans, studies, or photographs, demonstrating the location of the project.

### Project Attachment Templates:

[CARES Act Certification](#)

[Grant Budget Template](#)

[Project Schedule Form](#)

[Letters of Support/Community match template](#)

**Question:** Estimated total project cost?

379968.00

**Question:** List the underserved and unserved community facilities (schools, libraries, government offices, hospitals, public safety, etc.) within the proposed project area.

City facilities, City Park (for open public access) Library, schools

**Question:** What is the maximum broadband speed that will be provided by the project?

1000 bps up/down

**Question:** Are permits, permissions, rights of way and zoning requirements readily available in order for the project to be completed and paid for by December 15, 2020?

yes

**Question:** If answered no in previous question, please describe. If the project does not require any of the above answer N/A.

n/a

**Question:** Describe how the project will be administered, audited for completion, and accounting performed.

A budgetary grant line has been established with the City Clerk's Office. The grant administrator will track all expenditures, invoices, and receipts out of that established budget line. Monthly progress updates will be submitted to the Mayor and City Council for project progress and to ensure project schedule needs are being met. All expenditures and financials by default will be included in the regular yearly audit for the City of Star.

**Question:** Include any other information regarding why your project should be considered for funding.

Star' history as a city started in the late 1800's however under this current government, it was incorporated in 1997. This city half way between Boise and everywhere else; most infrastructure projects are controlled and governed by other entities. This grant opportunity will give the city the ability to help move its public service and residents into this current age COVID 19. This project meets multiple points of intent in the CARES Act funding criteria for both public employees, citizens, and students for distance learning.

**Question:** Upload Supporting Documents for scope of project including maps, site plans, studies, or photographs, demonstrating the location of the project.

[Fatbeam Star Idaho Community WIFI Proposal July 2020.pdf](#) (7/15/2020 11:08 AM)  
[Star Idaho Overview.jpg](#) (7/15/2020 11:07 AM)

**Question:** Upload the completed Grant Budget Template for the project that outlines the various costs.

[Star Cares-Act-Broadband-Grant-Budget.pdf](#) (7/15/2020 11:12 AM)

**Question:** Complete the Project Schedule Form

[City of Star Idaho CARES Grant timeline.pdf](#) (7/15/2020 11:08 AM)

**Question:** Include any Letters of Support or Community Match from the community.

No Attachments

**Question:** Provide a copy of your Community Broadband Plan if applicable.

No Attachments

**Question:** Provide a notarized CARES Act Certification that this project meets the CARES Act criteria.

[Star CARES Act Cert.pdf](#) (7/14/2020 2:29 PM)

**Question:** Provide commitments from community anchor institutions or public safety networks which will utilize your service if the project is funded.

### No Attachments

**Question:** Map of the project area demonstrating the insufficient availability of broadband service for a public facility symmetrical service and in the proposed public service area for 100 citizens using minimum service.

[Star Question 32.docx](#) (7/15/2020 11:25 AM)

**Question:** Map of the project area which includes the public facility and public service area, the broadband speeds provided, the fiber, and the technology used to provide the services.

[Star Question 33.docx](#) (7/15/2020 11:21 AM)

[Fatbeam Star Idaho Community WIFI Proposal July 2020.pdf](#) (7/15/2020 11:18 AM)

[Star Idaho Overview.jpg](#) (7/15/2020 11:17 AM)

## Signature

---

Your identity has been authenticated through the login process with a unique email address and password available only to you. You agree that by typing your name, title and date below, you are electronically signing the application. By electronically signing the application, you acknowledge and represent that you understand and accept all the terms and conditions stated within the application and declare that the information provided is true and that the documents you are submitting in support of your application are genuine and have not been altered in any way.

**Question:** Type your name.

Tina Wilson

**Question:** Type your title.

Executive Director Western Alliance for Economic Development

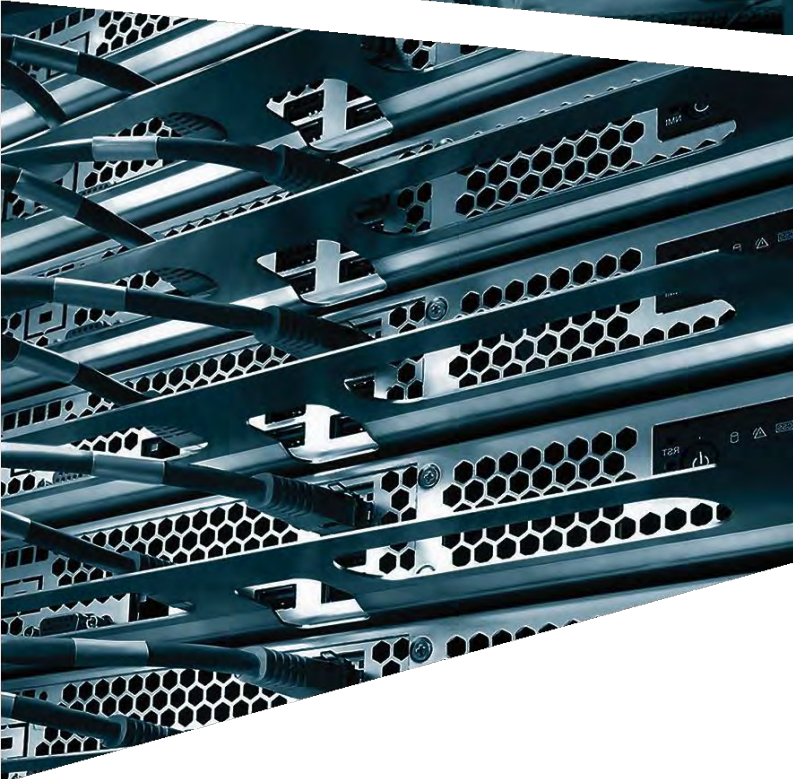
**Question:** Type the submission date.

07/15/2020



Idaho Grant  
Application Fatbeam  
Proposal Community  
Broadband Access  
City of Star Idaho

July 13<sup>th</sup> 2020



fatbeam.com  
2065 W. Riverstone Dr. Suite 202  
Coeur d'Alene, ID 83814  
t 509 344 1008



July 13<sup>th</sup>, 2020

Dear Mayor Chadwick,

Fatbeam is a high growth fiber-optic broadband provider headquartered in Coeur d'Alene, ID. At Fatbeam, we differentiate ourselves by offering fiber-based broadband solutions combined with a customer-centric and service-oriented approach to doing business. With nearly a decade of operating experience building and operating fiber broadband networks, we are ready and able to build the fiber-based infrastructure our customers need in the markets we serve.

Fatbeam currently has fiber networks in 27 cities across Idaho including, as an example, American Falls. Fatbeam had the opportunity to partner with American Falls School District in 2015 where together, we connected all 5 of their school buildings with nearly 3 miles of fiber. We currently provide the American Falls School District a 2Gbps lit fiber connection with the option to upgrade to dark fiber. By having this option, the School District can upgrade their connectivity needs as their students' bandwidth needs increase.

The State of Idaho broadband grant project offers a compelling opportunity for public-private partnership to deploy broadband across communities in a targeted manner. Broadband deployment stimulates economic development by creating opportunities for businesses and individuals. We believe in crafting solutions with customer input and then delivering the solutions that meet their needs now and in the future.

We look forward to answering any additional questions that you may have regarding our proposal.

Kindest regards,

Graham Taylor



**fatbeam<sup>®</sup>**

**Cost Proposal  
Summary & Scope  
of Work**

Fatbeam has built and operates an extensive fiber optic network throughout the State of Idaho connecting a variety of locations to carrier grade internet access starting at 1 Gbps.

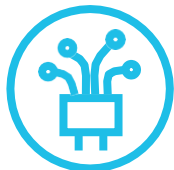
Fatbeam proposes the following broadband infrastructure to support the needs of The City of Star:

1. **Fatbeam will deliver a 1 GIG Dedicated Internet Connection to the Star City Hall:** Fatbeam proposes to provide a dedicated 1 Gbps fiber optic internet connection to City of Star City Hall located at 10759 W. State Street Star, Idaho 83669. Fatbeam will work directly with the City of Star to align a contract for the reoccurring costs to provide 1 GIG DIA to the city and its parks.
2. **Electronics upgrade and integration with City Hall network:** Fatbeam, via its partner firm Ednetics, will offer an equipment upgrade to integrate the fiber connection to City Hall’s internal LAN network with the necessary equipment like routers, firewalls, etc. and the professional services needed to implement.
3. **Fiber extensions to two Community WiFi Access Points at City of Star Parks:** Fatbeam will provide buried fiber extensions from City Hall to two city parks of the city’s choosing to serve as termination points for a Community Access Network via WiFi connection. Fatbeam will include up to 2 miles of fiber construction for each access point/community wifi area.
4. **Establishing Community Access Network:** Fatbeam, via its partner firm Ednetics, will install and activate a turnkey WiFi solution at these extension locations to allow the community of Star a public access community WiFi network for the benefit of all your citizens.

For a total investment of **\$370,000.00**, this broadband infrastructure will provide meaningful benefits to the community of Star, Idaho as follows:

- ✓ Community Access Networks: providing for high speed connectivity and public WiFi in key community locations, in this public parks where community members can have access to carrier grade internet
- ✓ Public Safety: providing for secure and high-speed connectivity for enabling public safety in City of Star, Idaho by connecting City Hall with a reliable high speed 1Gbps fiber-based internet connection.
- ✓ Telehealth: providing for secure and high-speed connectivity for telehealth either as a follow up soon as this foundational infrastructure is up and running
- ✓ Education: providing for secure and high-speed connectivity for education by integrating this network with the school district network either as a follow up soon as this foundational infrastructure is up and running

### Proposed Broadband Infrastructure Support



Extending 1 GIG DIA to City of Star Idaho



Electronics upgrade and integration with City Hall



Fiber extensions to two City Parks to Create Community WiFi



Establishing Community Access Network



# FIBER INTERNET

## LOAD UP ON BANDWIDTH

### Need for speed?

Slow internet can really effect your business. Fatbeam's fiber-based internet offers connections with powerful features.

- No data caps
- No bursting fees
- No local loop charges
- No port costs — Zero hidden fees

One fair fixed price for a TON of bandwidth.

### Hungry applications?

Open the throttles on your internal network and stop paying more each time you need to increase capacity.

- Video Conferencing and Broadcast Video
- Voice-over-Internet Protocol (VoIP)
- Internal Data Traffic
- Virtual IT and Cloud Computing
- Data Backup, Storage and Disaster Recovery
- Media Streaming

### Make the switch

Is your business tired of price increases and teaser rates with your legacy provider? Unbundle yourself from your current internet provider, switch to Fatbeam's ability to scale your bandwidth and is fully managed with a low total cost of ownership. Fatbeam can provide networks in communities of all sizes from large cities to rural communities.

Fatbeam Lit Fiber is a monitored service, which includes 365 day 24/7-network monitoring via the Fatbeam Network Operation Center (NOC).



### Scalability

Enjoy the ability to replace and upgrade technology at your own pace. Optimize your network and upgrade bandwidth as you see fit.



### Reliability

Through our Network Operations Center and guaranteed SLAs, we make sure our fiber is always ready to support your needs, ensuring 99.9% availability.



### Affordability

With multiple financial options available, there is an option for every budget, giving you the network quality that you need. Ask us more today.



### Powerful

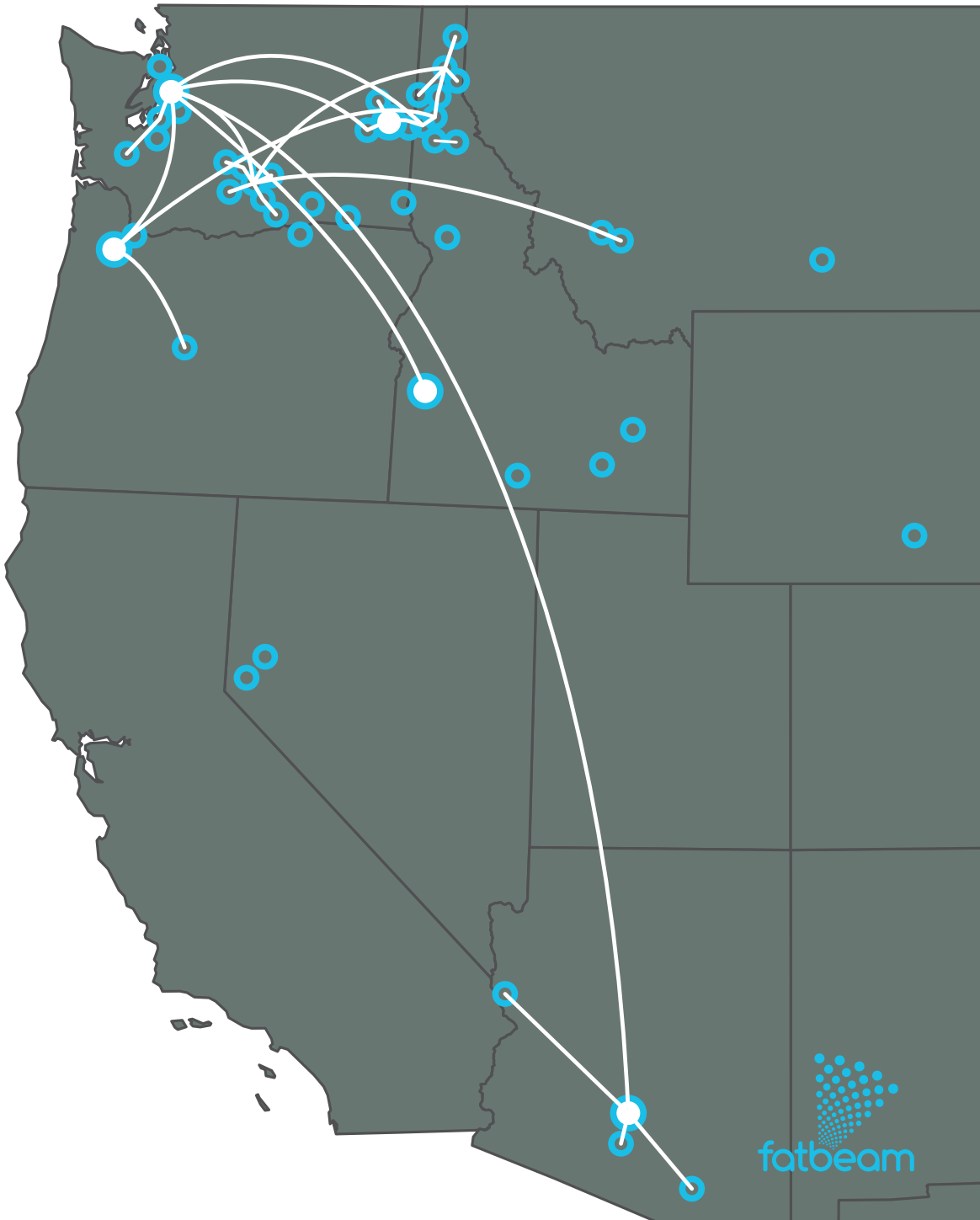
Fatbeam offers powerful and reliable bandwidth for your unique business needs. We provide ondemand speeds to deliver files and applications to your business so you can get on with your life.





# FATBEAM

REGIONAL FIBER NETWORK

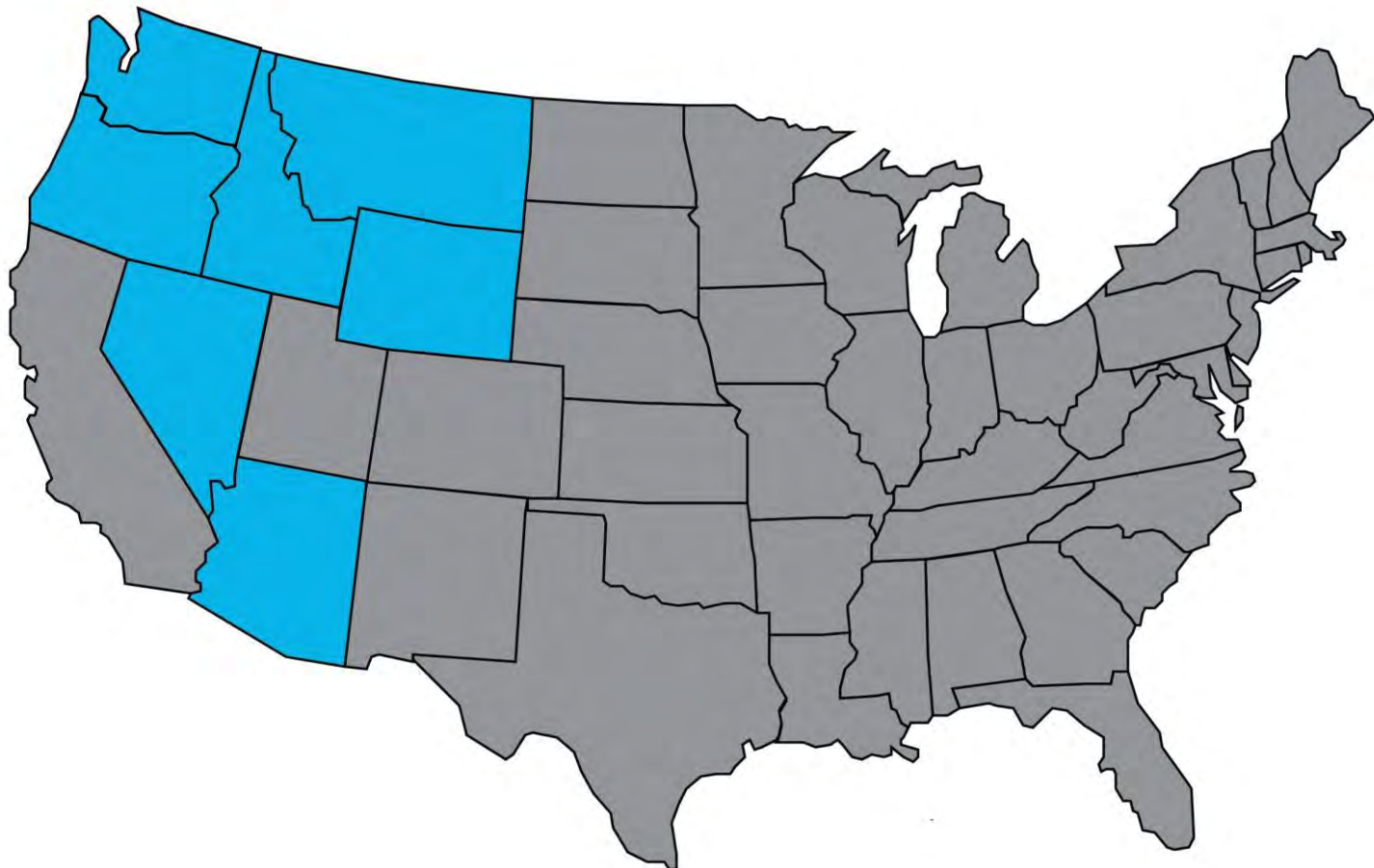


**Legend:**

- City
- Regional Carrier Point of Presence
- Connection



# SERVICE AREA MAP



## ARIZONA

Lake Havasu  
Maricopa  
Vail

## IDAHO

American Falls  
Bonners Ferry  
Calder  
Clark Fork  
Coeur d'Alene  
Dalton Gardens  
Desmet  
Firth  
Grangeville  
Hayden  
Hope  
Kellogg  
Kuna  
Lewiston  
McCall  
Meridian  
Moscow  
Mullan

Nampa  
Payette  
Plummer  
Ponderay  
Post Falls  
Rathdrum  
Sandpoint  
St. Maries  
Twin Falls

## MONTANA

Anaconda  
Butte  
Laurel

## NEVADA

Dayton  
Fernley

## OREGON

Bend  
Gervais  
Hermiston  
Tigard

Tualatin

## WYOMING

Rawlins

## WASHINGTON

Aberdeen  
Asotin  
Auburn  
Belfair  
Bellingham  
Burien  
Centralia  
Chehalis  
Cheney  
Clarkston  
Cle Elum  
College Place  
Colville  
Connell  
Cowiche  
Ellensburg  
Elma  
Forks

Grandview

Granger  
Hoodsport  
Ilwaco  
Ione  
Issaquah  
Kennewick  
Kent  
Kingston  
Kittitas  
Lacey  
Liberty Lake  
Lynnwood  
Mabton  
Mason  
Medical Lake  
Montesano  
Morton  
Moses Lake  
Moxee  
Naselle  
Newport  
Nine Mile Falls  
Oak Harbor

Ocean Park

Olympia  
Othello  
Parkland  
Pasco  
Poulsbo  
Puyallup  
Randle  
Raymond  
Republic  
Rockford  
Royal City  
Salkum  
Seattle  
Selah  
Sequim  
Shelton  
South Bend  
Spokane  
Spokane Valley  
Sunnyside  
Suquamish  
Tacoma  
Tonasket

Toppenish  
Tumwater  
Union Gap  
Walla Walla  
Wapato  
Warden  
Waterville  
Westport  
Winlock  
Yakima  
Yelm  
Zilla



fatbeam



# FATBEAM members



## Graham Taylor Senior Account Executive

Graham has spent over 7 years in the communications industry providing creative service solutions to the communities he serves. His technical expertise working with both voice and data solutions has afforded him a great amount of success. Graham's customer base has included education, enterprise and government clients. He graduated from the University of Idaho with a BS in Business Administration. His strong passion for building relationships as well his commitment to his clients make him a valuable team member here at Fatbeam.



## Tony Perkins Chief Operating Officer

With over 15 years of experience in constructing and managing fiber assets, as well as information technology management, Tony Perkins joined Fatbeam in 2018 as Chief Operating Officer. He previously served as the Vice President of Operations and Infrastructure at Unite Private Networks. With an MBA from the University of Missouri and Bachelor of Science from Northwest Missouri State University, Perkins has always had a passion for focusing on customer needs and delivering solutions that exceed expectations.



## Stacy Standy Customer Service/Provisioning Representative

Stacy has spent 27 years working in the telecommunications industry, 22 of those years served at XO Communications. Stacy has held roles in customer service, provisioning and sales engineering and has earned numerous certifications throughout her career. Her extensive background in the communications industry and commitment to her customers makes her extremely valuable to Fatbeam and our customers..

# Fatbeam Support

## Repair Ticket Outage Process



Call Fatbeam support at [855.979.8844](tel:855.979.8844) or email [support@fatbeam.com](mailto:support@fatbeam.com) to open a trouble ticket.

Please be prepared to provide the following information the following information:

- Business name, address and type of service of at the location experiencing issues
- Primary site contact name, phone number, alternate phone number and email address, as well as access days and hours of availability.

**Standard Support SLA's for updated on new tickets are as follows:**

Priority	Priority Description	Contact Interval
P1	Hard Down/Full Service Impact	1 Hour
P2	Degradation in Network Performance/Partial Service Impact	2 Hours
P3	Informational or Change Request / No Service Impact	24 Hours

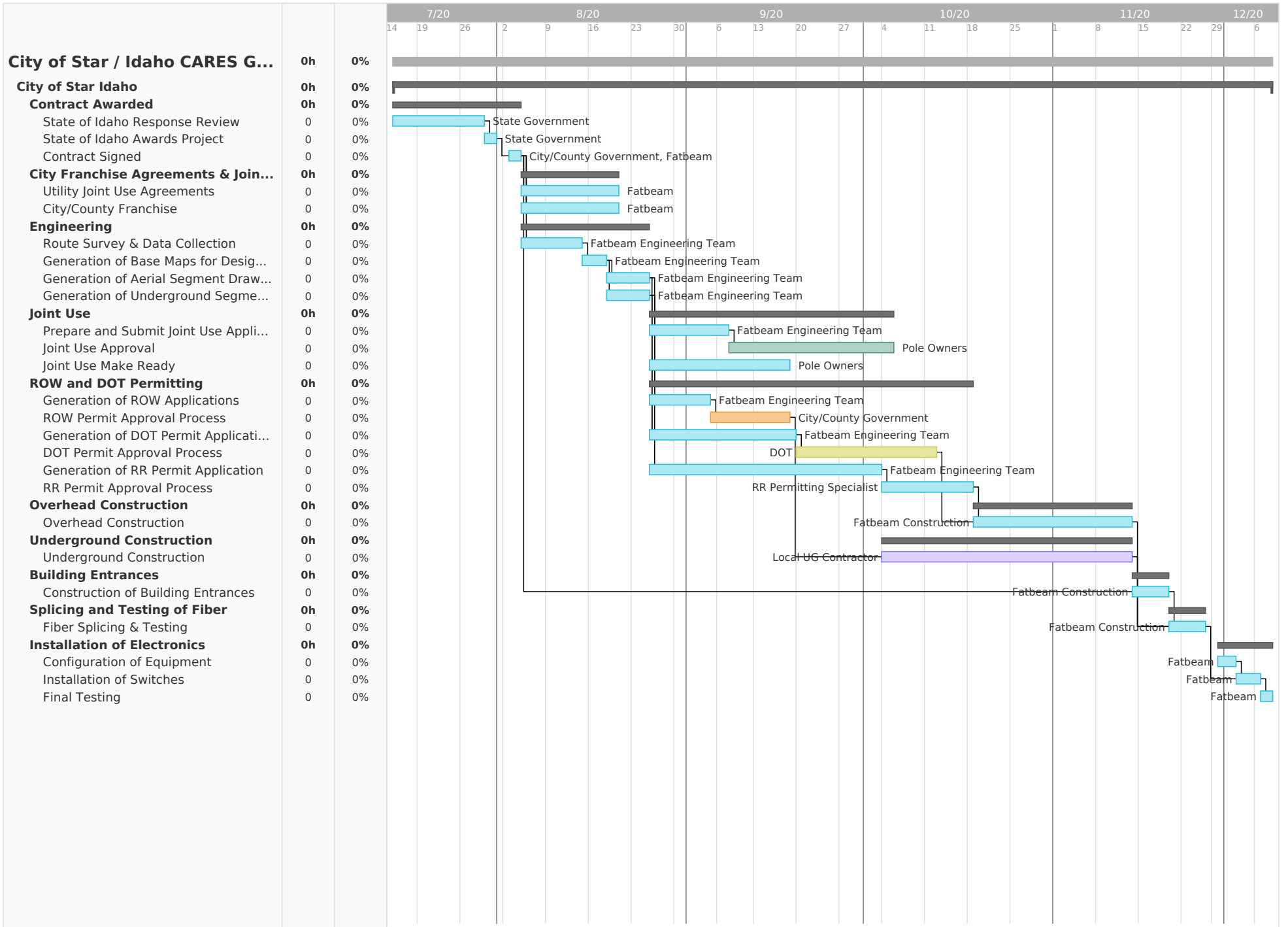
### Fatbeam Support Escalation

If you feel that your repair issue is not being resolved in a satisfactory timeframe, please escalate using the information below:

Escalation Level	Contact Name	Title	Contact Information
1	Fatbeam Tech	On call	208.763.4346
2	Matt Knoblich	Acting Construction Manager	208.889.9077
3	Bruce Hathaway	Senior OSP Engineer	208.771.9204
4	Tony Perkins	COO	208.660.5259

**Idaho CARES Act Broadband Grant Budget**

<b>Line Item</b>	<b>Grant Dollars</b>				<b>Total</b>
<b>Totals</b>					



City of Star  
P.O. Box 130  
Star, Idaho 83669  
208-286-7247  
Fax 208-286-7569  
www.staridaho.org



Mayor:  
Trevor Chadwick

Council:  
Kevin Nielsen  
Jennifer Salmonsens  
Michael Keyes  
David Hershey

STATE OF Idaho  
COUNTY OF Ada

The undersigned, Jennifer Salmonsens, representing the City of Star, 10769 W. State Street, Star, Idaho, hereby swear (affirm) that:

1. I am a city council member of Star City Council and thereby authorized to make these statements.
2. I have personal knowledge of the facts herein and can testify completely thereto.
3. The purpose of this statement is to assure the Idaho Department of Commerce that the project will meet the CARES Act Criteria. Further guidance can be found here and here.
  - i. Expenses to facilitate distance learning, including technological improvements, in connection with school closings to enable compliance with COVID-19 precautions.
  - ii. Expenses to improve telework capabilities for public employees to enable compliance with COVID-19 public health precautions.

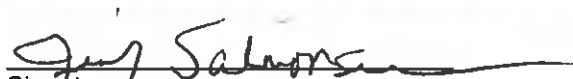
Applicant to complete this section with information regarding how they will meet the above CARES Act Criteria.

Community Access Networks: providing for high speed connectivity and public Wi-Fi in key community locations, in this public parks where community members can have access to carrier grade internet

Public Safety: providing for secure and high-speed connectivity for enabling public safety in City of Star, Idaho by connecting City Hall with a reliable high speed 1Gbps fiber-based internet connection.

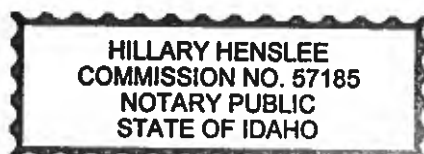
Telehealth: providing for secure and high-speed connectivity for telehealth either as a follow up soon as this foundational infrastructure is up and running

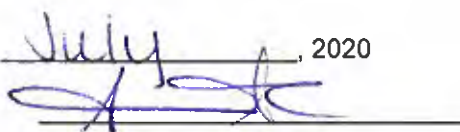
Education: providing for secure and high-speed connectivity for education by integrating this network with the school district network either as a follow up soon as this foundational infrastructure is up and running

  
Signature

7/14/2020  
Date

SUBSCRIBED AND SWORN before me on this 14 day of July, 2020

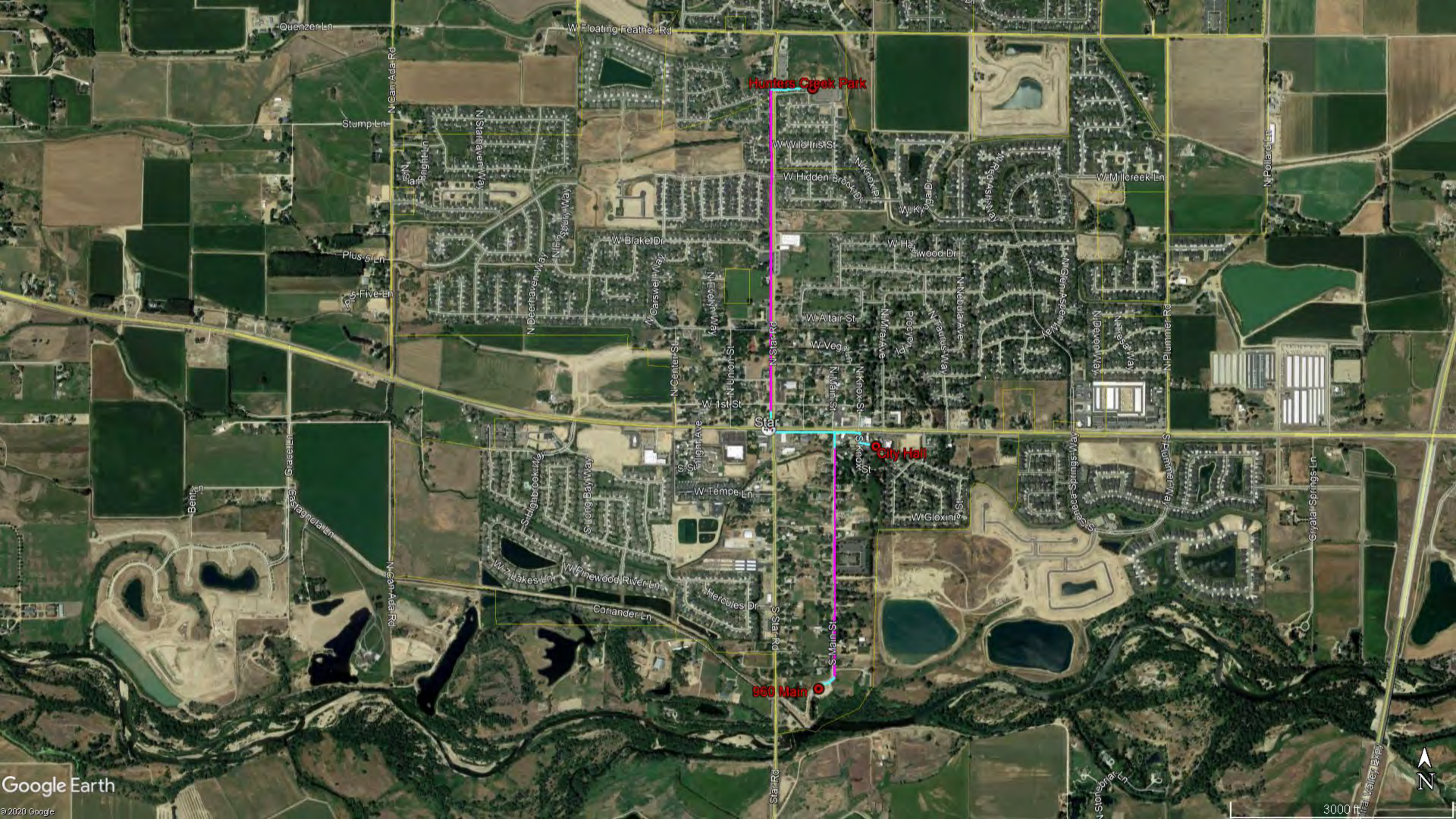




Notary Public for Idaho  
Residing at Star ID

Commission expires 12/30/22





Hunters Creek Park

City Hall

960 Main



Question 32:

We were not able obtain a map of existing service from proprietary service providers in the short open grant application period.

However we can assist to the fact the City Hall public infrastructure does not have access to the 1000 bps up/down speeds

We can assist to the ability of over 100 residents being about to access the Wi-Fi points

Question 33:

This map and project proposal reflect the area to be covered as well as the technology to be used.

# State of Idaho Public Broadband Grant Application: Households

Applicant	Mary Rosen
Applicant ID	APP-004166
Company Name	Valley County
Recipient Address	Valley County 219 N Main St Cascade, ID 83611
Phone	(208) 382-7100
Email	mrosen@co.valley.id.us
Amount Requested	\$303,000.00
Status	Submitted
Funded	<input type="checkbox"/>

Application Title: Sparklight/Pilgrims Cove - McCall, Idaho

## Applicant Information

**NOTICE: Grant applications, challenges, and responses to challenges will be posted to the Idaho Department of Commerce website**

### Purpose:

#### 1. Program Description

The CARES Act funding received by the State of Idaho will fund projects across the state that create and retain local jobs and result in purposeful outcomes, including distance learning, telehealth public safety, commerce, and overall well-being. This CFAC Broadband Grant initiative grant program (the “Program for Households”) is designed to meet the CARES Act criteria, and help Idaho rebound from the COVID-19 public health emergency. Approximately 70% of the \$50 million received by the Idaho Department of Commerce will be allocated to this program aimed at households that lack access to broadband.

**• Projects must be completed and grant funds requested and dispersed before December 15th, 2020.**

**Question:** Contact information of applicant: Name Title Mailing Address Email Phone

Mary Rosen, Valley County Grant Writer/Manager-Office of County Clerk, 210 North Main Street, Cascade, Idaho 83611, mrosen@co.valley.id.us, 208-308-7412

**Question:** List the cities/communities where the project(s) will take place.

Valley County Idaho

**Question:** Enter the zip code(s) where the project will take place.

83638

**Question:** Enter name and title of designated grant administrator

Mary Rosen, Valley County Grant Writer/Manager

**Question:** Enter the email of the designated grant administrator

mrosen@co.valley.id.us

**Question:** Enter the phone number of the designated grant administrator

Office: 208-382-7137 Cell: 208-308-7412

## Project Requirements

---

### Eligible Projects

Projects must meet the following eligibility criteria: The project must:

- Be infrastructure investment, associated equipment, and accessories related to broadband as defined by the FCC: speeds of 25 Mbps download and 3 Mbps upload.
- Meet the CARES Act criteria, which is designed to address key areas of public health and safety by improving opportunities to telework, facilitate distance learning, and improve public safety
- Be a project that serves underbuilt areas and does not overbuild existing broadband service. Underbuilt areas are defined as locations where less than fifty percent (50%) of households in the project area have access to broadband service.
- Include only new broadband service to be installed, owned, and operated by for-profit companies, or membership owned cooperative corporations as defined in [Idaho Code Title 30, Chapter 30](#) that provide broadband services to the public.
- Provide broadband service within the applicant's proposed project area.
- Be completed, operable, paid for, and submitted to the Idaho Department of Commerce for payment no later than December 15, 2020.
- Include broadband infrastructure and equipment costs meeting CARES Act criteria. Satellite service is not eligible for grant award.

**Question:** Does your project meet the CARES Act criteria?

Yes

No

**Question:** Does your project provide a minimum of 25 Mbps Download and 3 Mbps Upload as outlined by the CFAC Committee Recommendation?

Yes

No

**Question:** Does your project provide service to areas where less than 50% of households in the project area has broadband as outlined by the CFAC Committee Recommendation?

Yes

No

**Question:** Include only new broadband service to be installed, owned, and operated by for-profit companies, or membership owned cooperative corporations as defined Idaho Code Title 30, Chapter 30 that provide broadband services to the services to the public.

Yes

No

**Question:** I understand that the State of Idaho will provide no funding and have no obligations for projects that fail to be completed by December 15, 2020.

Yes

No

## Scored Criteria

---

**Question:** Provide an overview of the project including why the project is important and will address broadband needs of the community.

This community has been underserved for many years with very low internet speeds available to them. As more and more residents have the need to school from home, utilize telehealth, work from home and utilize the internet for basic daily information and entertainment needs, the access to higher broadband speeds and reliability are critical. This project will provide up to 1 gig service to these residents and will not only improve the lives of the families living here, but strengthen the economy for the McCall area and Valley County.

**Question:** Is your project in an area where 50% of households is in an unserved area?

Yes

No

**Question:** Is your project in an area where more than 50% of households is in an underserved area?

Yes

No

**Question:** Is the project in a town/city/municipality of less than 3,000 people?

Yes

No

**Question:** How many households may receive broadband service because of this project?

91.00

**Question:** Does the project address a need as identified in a local or regional broadband plan? If yes, please describe.

Valley County Commissioner's initiated and created a broadband task force which includes City of Cascade, City of McCall, West Central Mountains Economic Development Council and Valley County. The Valley County Broadband Task Force was created in order to coordinate the planning efforts and apply for funding as it becomes available. It is a priority of the Valley County Commissioners to bring broadband and high-speed internet to all of the residents in the county. The Valley County Broadband Task Force is in the process of creating a regional broadband plan.

## Additional Requirements

---

Upload Supporting Documents for scope of project including maps, site plans, studies, or photographs, demonstrating the location of the project.

### **Project Attachment Templates:**

[\*\*CARES Act Certification\*\*](#)

[\*\*Grant Budget Template\*\*](#)

[\*\*Project Schedule Form\*\*](#)

[\*\*Letters of Support/Community match template\*\*](#)

**Question:** Estimated total project cost?

303000.00

**Question:** List the underserved and unserved community facilities (schools, libraries, government offices, hospitals, public safety, etc.) within the proposed project area.

Pilgrim Cove Church Camp (Non-profit)

**Question:** What is the average cost per household of new broadband service based on this project cost?

\$3,297

**Question:** What is the maximum broadband speed that will be provided by the project?

1 gig download, 50 meg upload

**Question:** Are permits, permissions, rights of way and zoning requirements readily available in order for the project to be completed and paid for by December 15, 2020?

Yes

**Question:** If answered no in previous question, please describe. If the project does not require any of the above answer N/A.

N/A

**Question:** Describe how the project will be administered, audited for completion, and accounting performed.

Sparklight will notify Mary Rosen, Valley County Grant Writer/Manger when the project has been completed and addresses have been entered into the billing system. At that time, copies of all invoices related to the project will be provided for the county to review and submit for reimbursement from Grant funds.

**Question:** Include any other information regarding why your project should be considered for funding.

Idaho is in need of more broadband capacity, particularly in its rural and more remote areas of the county. There has been a newly expanded need for distance education, remote work and telehealth needs that has been amplified as a result of the COVID-19 pandemic. Now more than ever, people need fast, reliable internet service to their homes. Pilgrims Cove is an area that has been underserved for many years with unreliable internet access and speeds as low as 5 meg service. Sparklight has been working to find a solution for the residents in order to bring our services into the area. Due to the terrain, for the number of homes serviced, this project is quite expensive. Even with expanded return on investment criteria, this project has been unable to meet Sparklight's qualifications for project approval, and the residents of Pilgrims Cove have suffered.

**Question:** Upload Supporting Documents for scope of project including maps, site plans, studies, or photographs, demonstrating the location of the project.

[Sparklight Internet Plans 7.1.20.pdf](#) (7/15/2020 12:58 PM)  
[Pilgrim Cove Subdivision plat map.pdf](#) (7/15/2020 9:05 AM)  
[Pilgrims Cove vicinity map.pdf](#) (7/15/2020 8:58 AM)



[Pilgrim Cove location map.pdf](#) (7/15/2020 8:57 AM)

**Question:** Upload the completed Grant Budget Template for the project that outlines the various costs.

[Pilgrims Cove McCall- Broadband Grant Budget.pdf](#) (7/15/2020 9:17 AM)

**Question:** Complete the Project Schedule Form

[Pilgrims Cove McCall- Broadband Grant Project Schedule.pdf](#) (7/10/2020 12:28 PM)

**Question:** Include any Letters of Support or Community Match from the community.

[WCM Economic Development Letter of Support.pdf](#) (7/14/2020 6:01 PM)

[Sparklight Letter of Support - Pilgrims Cove.pdf](#) (7/14/2020 6:01 PM)

[Pilgrim Cove Home Owners Assoc letter of support.png](#) (7/14/2020 6:00 PM)

**Question:** Provide a copy of your Community Broadband Plan if applicable.

**No Attachments**

**Question:** Provide a notarized CARES Act Certification that this project meets the CARES Act criteria.

[Valley County Commissioner's notarized Cares Act Cert..pdf](#) (7/14/2020 6:10 PM)

**Question:** Provide commitments from community anchor institutions or public safety networks which will utilize your service if the project is funded.

[Pilgrim Cove Home Owners Assoc letter of support.png](#) (7/14/2020 6:11 PM)

**Question:** Map of the project area demonstrating the insufficient availability of broadband service (25/3Mbps) in the proposed service area where less than 50% of households have access to broadband.

[Sparklight Maps.pdf](#) (7/15/2020 12:48 PM)

**Question:** Map of the project area which includes the number of households served, the broadband speeds provided, and the technology used to provide that service.

[Sparklight Maps.pdf](#) (7/15/2020 12:47 PM)

[Pilgrims Cove McCall- Area of Work.pdf](#) (7/15/2020 9:20 AM)

## Signature

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Your identity has been authenticated through the login process with a unique email address and password available only to you. You agree that by typing your name, title and date below, you are electronically signing the application. By electronically signing the application, you acknowledge

and represent that you understand and accept all the terms and conditions stated within the application and declare that the information provided is true and that the documents you are submitting in support of your application are genuine and have not been altered in any way.

**Question:** Type your name.

Mary Rosen

**Question:** Type your title.

Valley County Grant Writer/Manager

**Question:** Type the submission date.

7/15/2020

# Map 1 – Existing Broadband Availability

**FC** Federal Communications Commission

## Fixed Broadband Deployment

Home **Location Summary** Area Summary Area Comparison Provider Detail Data Download About

Address 1050 Shady Lane, Mccall, Idaho 83638, United

**All Providers Reporting Service**

Census block ID: 160859702002177

**Number of Fixed Residential Broadband Providers**

0 1 2 3 4 6 12 or more

**Broadband**

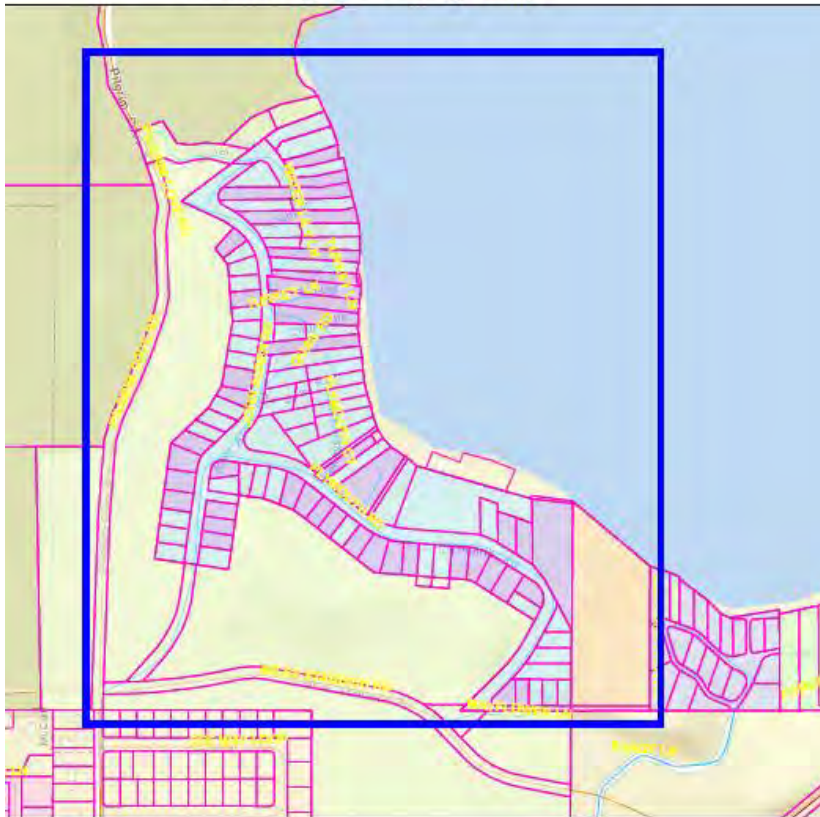
**Technology** ADSL, Cable, Fiber, Fixed Wireless, Satellite, Other  
**Speed** ≥ 25/3 Mbps  
**Date** June 2019 (latest public release)

Provider	Tech	Down (Mbps)	Up (Mbps)
ViaSat, Inc.	Satellite	35	3
Hughes Network Systems, LLC	Satellite	25	3
VSAT Systems, LLC	Satellite	2	1.3

© Mapbox © OpenStreetMap Improve this map

## Map 2 – Proposed Broadband Availability – Sparklight

Planning & Zoning Map



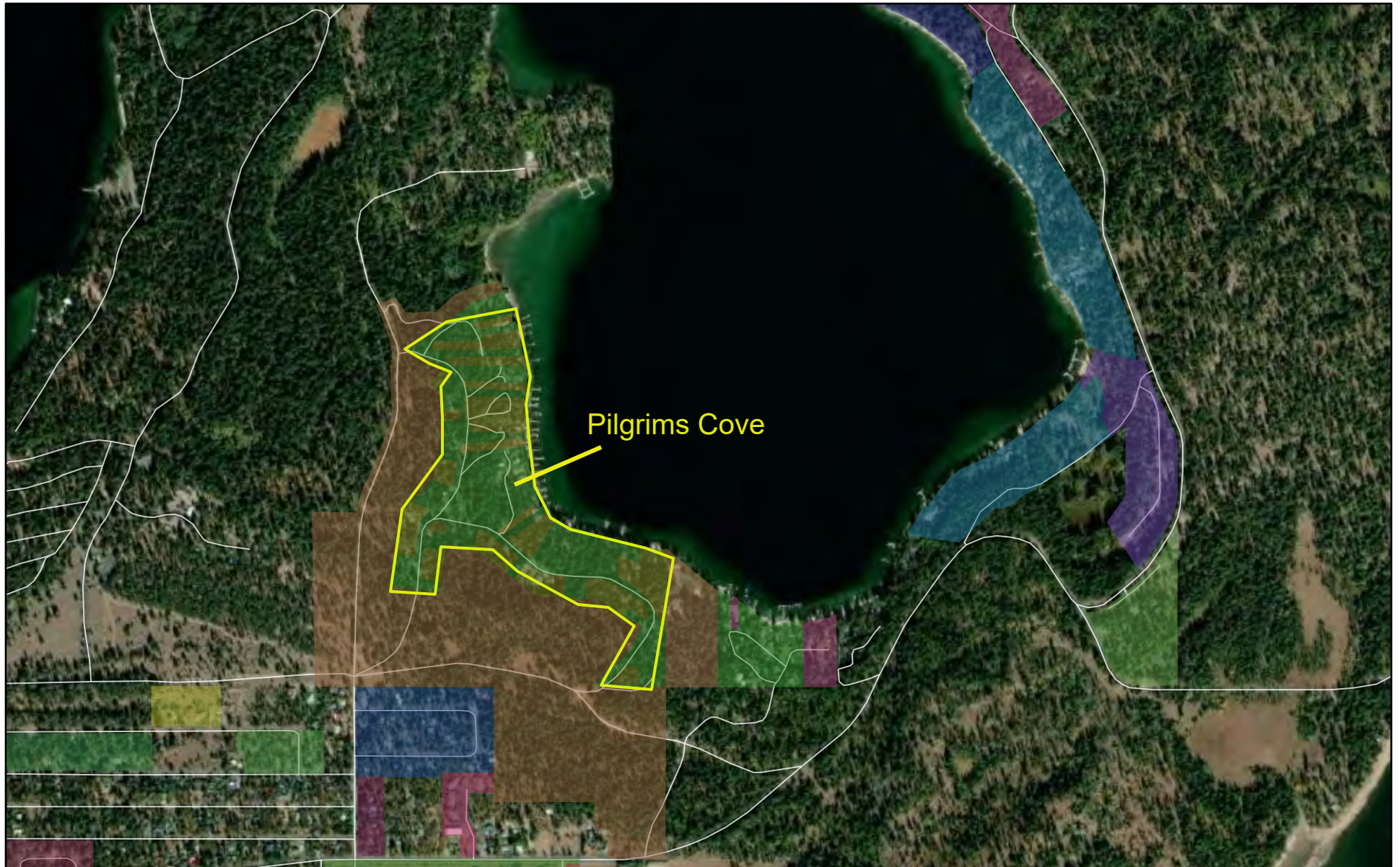
Sparklight - Pilgrims Cove	
Number of Households Reached	91
Broadband Speed Offered	1 Gig x 50 meg
Technology Used - Wired	Fiber/Coax

# Planning & Zoning Map

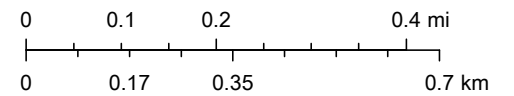




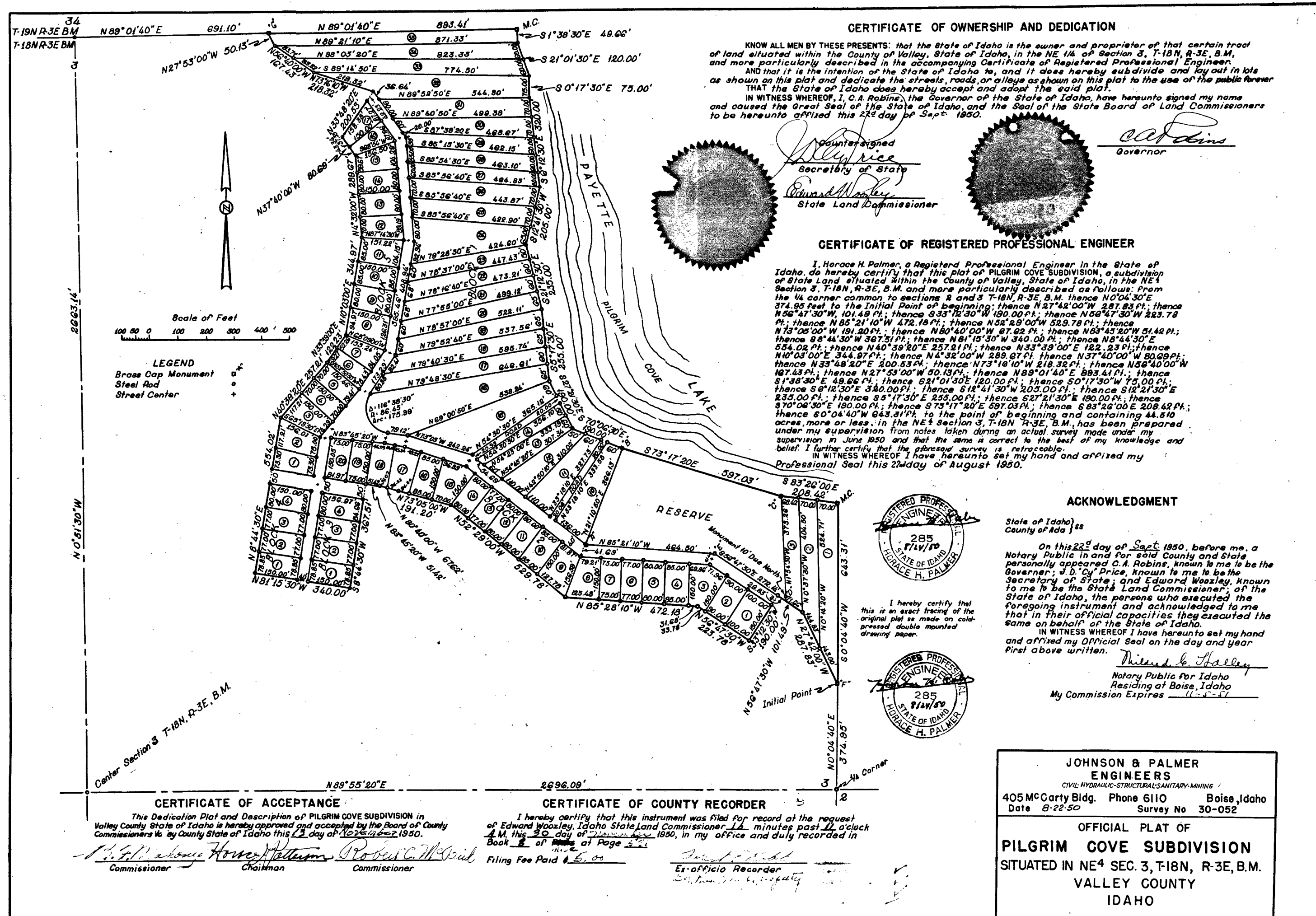
# Pilgrims Cove location map



1:18,056



Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS,



**CERTIFICATE OF OWNERSHIP AND DEDICATION**

KNOW ALL MEN BY THESE PRESENTS: that the State of Idaho is the owner and proprietor of that certain tract of land situated within the County of Valley, State of Idaho, in the NE 1/4 of Section 3, T-18N, R-3E, B.M. and more particularly described in the accompanying Certificate of Registered Professional Engineer.

AND that it is the intention of the State of Idaho to, and it does hereby subdivide and lay out in lots as shown on this plat and dedicate the streets, roads, or alleys as shown on this plat to the use of the public forever.

THAT the State of Idaho does hereby accept and adopt the said plat.

IN WITNESS WHEREOF, I, C. A. Robins, the Governor of the State of Idaho, have hereunto signed my name and caused the Great Seal of the State of Idaho, and the Seal of the State Board of Land Commissioners to be hereunto affixed this 23rd day of Sept. 1950.

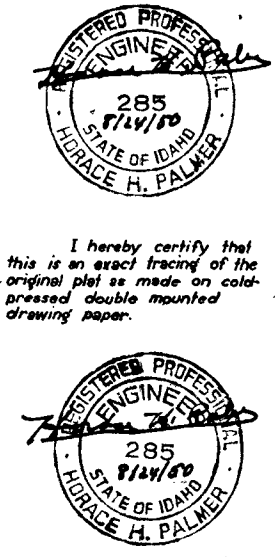
*Edwards*  
Governor

*Price*  
Secretary of State

*Woolley*  
State Land Commissioner

**CERTIFICATE OF REGISTERED PROFESSIONAL ENGINEER**

I, Horace H. Palmer, a Registered Professional Engineer in the State of Idaho, do hereby certify that this plat of PILGRIM COVE SUBDIVISION, a subdivision of State Land situated within the County of Valley, State of Idaho, in the NE 1/4 Section 3, T-18N, R-3E, B.M. and more particularly described as follows: From the 1/4 corner common to sections 3 and 5 T-18N, R-3E, B.M. thence N 0° 04' 30\"/>



**ACKNOWLEDGMENT**

State of Idaho ss  
County of Ada ss

On this 23rd day of Sept. 1950, before me, a Notary Public in and for said County and State personally appeared C. A. Robins, known to me to be the Governor; J. D. Cy Price, known to me to be the Secretary of State; and Edward Woolley, known to me to be the State Land Commissioner; of the State of Idaho, the persons who executed the foregoing instrument and acknowledged to me that in their official capacities they executed the same on behalf of the State of Idaho.

IN WITNESS WHEREOF I have hereunto set my hand and affixed my Official Seal on the day and year first above written.

*Walter S. Halliday*  
Notary Public for Idaho  
Residing at Boise, Idaho  
My Commission Expires 11-1-51

**CERTIFICATE OF ACCEPTANCE**

This Dedication Plat and Description of PILGRIM COVE SUBDIVISION in Valley County State of Idaho is hereby approved and accepted by the Board of County Commissioners by County State of Idaho this 1st day of Oct. 1950.

*Commissioner* *Chairman* *Commissioner*

**CERTIFICATE OF COUNTY RECORDER**

I hereby certify that this instrument was filed for record at the request of Edward Woolley, Idaho State Land Commissioner, at 11 minutes past 12 o'clock A.M. this 23rd day of Sept. 1950, in my office and duly recorded in Book 1 of 1950 at Page 111.

Filing Fee Paid \$ 6.00

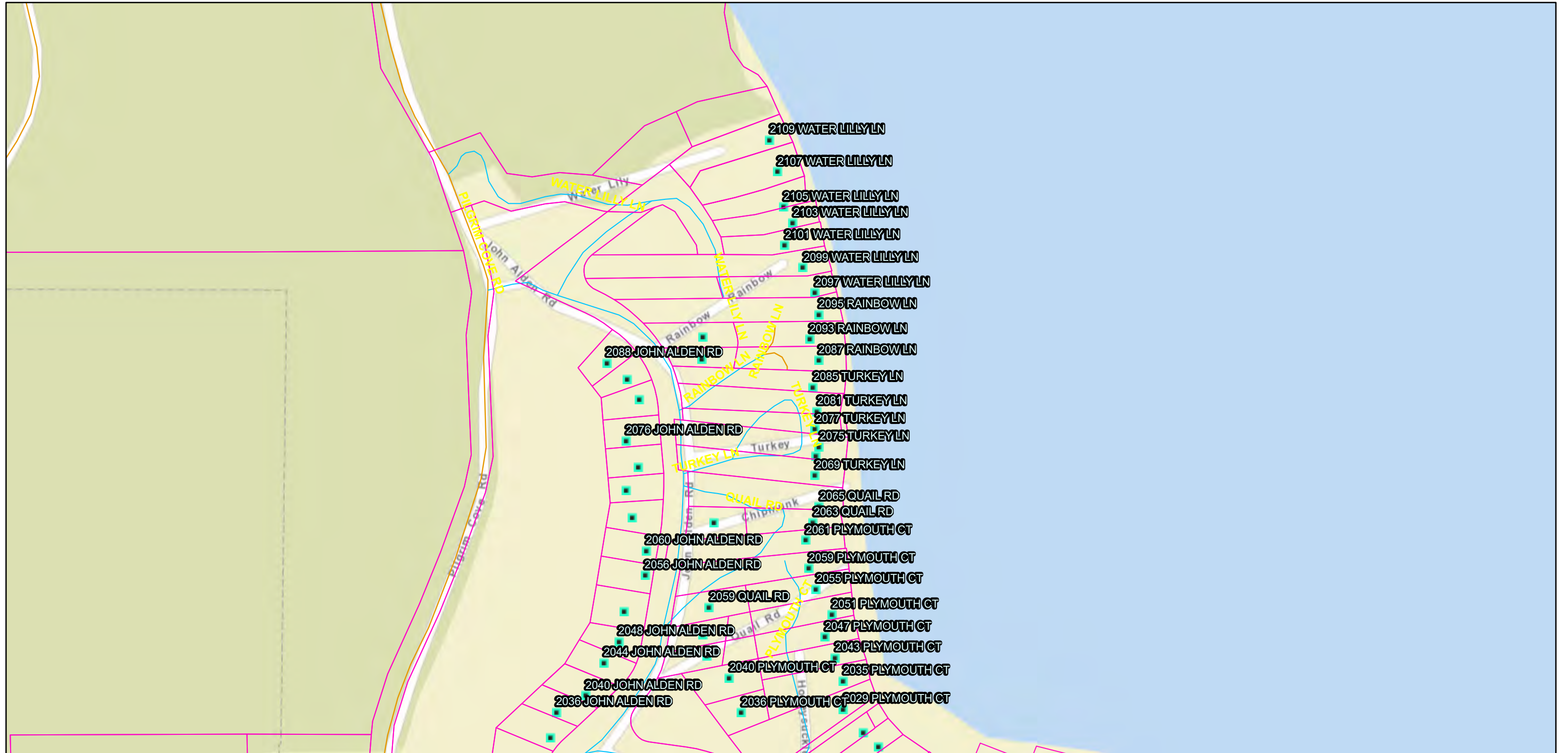
*Recorder*  
Es-officio Recorder

**JOHNSON & PALMER ENGINEERS**  
CIVIL, HYDRAULIC, STRUCTURAL, SANITARY, MINING  
405 McCarty Bldg. Phone 6110 Boise, Idaho  
Date 8-22-50 Survey No 30-052

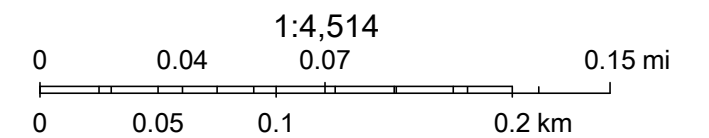
**OFFICIAL PLAT OF PILGRIM COVE SUBDIVISION**  
SITUATED IN NE 1/4 SEC. 3, T-18N, R-3E, B.M.  
VALLEY COUNTY IDAHO



# Planning & Zoning Map

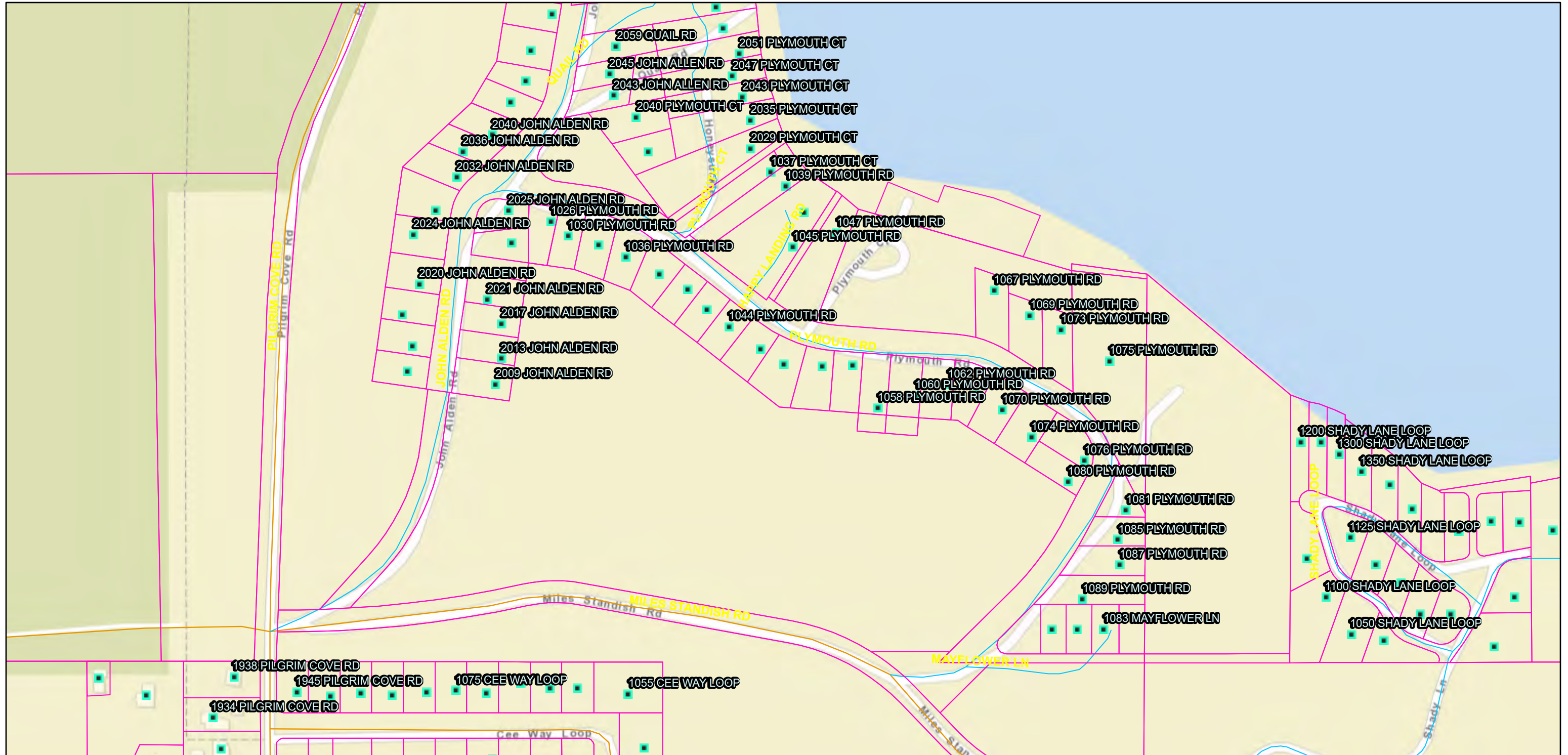


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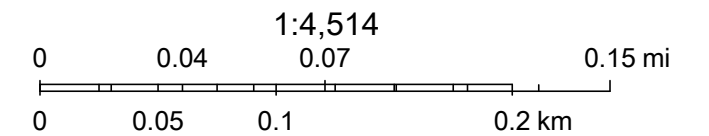


Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, © OpenStreetMap contributors, and the GIS User Community

# Planning & Zoning Map

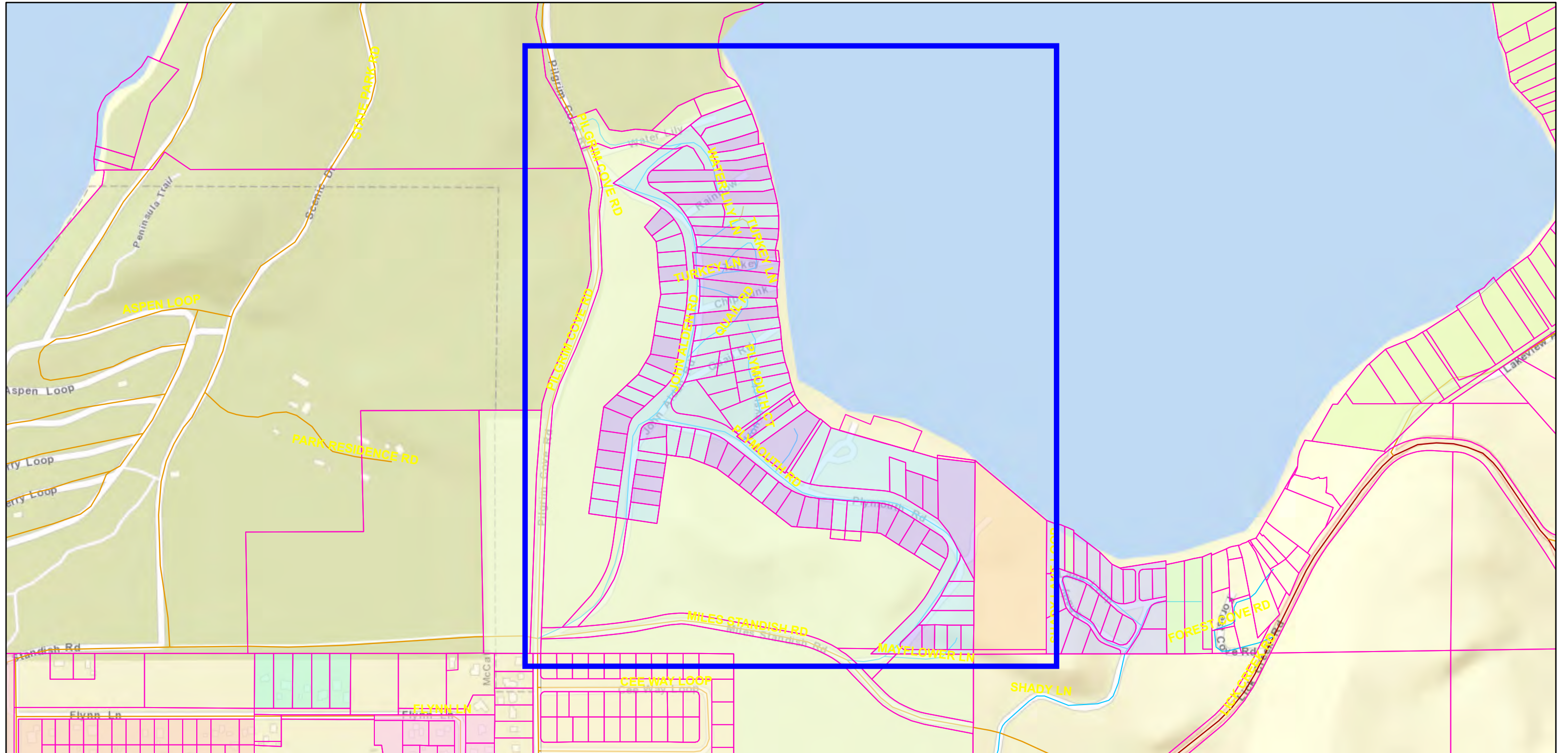


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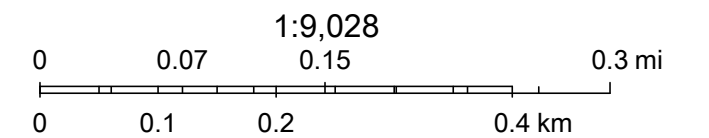


Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, © OpenStreetMap contributors, and the GIS User Community

# Planning & Zoning Map



8/6/2018 4:35:44 PM



Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, © OpenStreetMap contributors, and the GIS User Community

**Idaho CARES Act Broadband Grant Budget**

<b>Line Item</b>	<b>Grant Dollars</b>				<b>Total</b>
<b>Totals</b>					

# Map 1 – Existing Broadband Availability

**FC** Federal Communications Commission

## Fixed Broadband Deployment

Home **Location Summary** Area Summary Area Comparison Provider Detail Data Download About

Address 1050 Shady Lane, Mccall, Idaho 83638, United

**All Providers Reporting Service**

Census block ID: 160859702002177

**Number of Fixed Residential Broadband Providers**

0 1 2 3 4 6 12 or more

**Broadband**

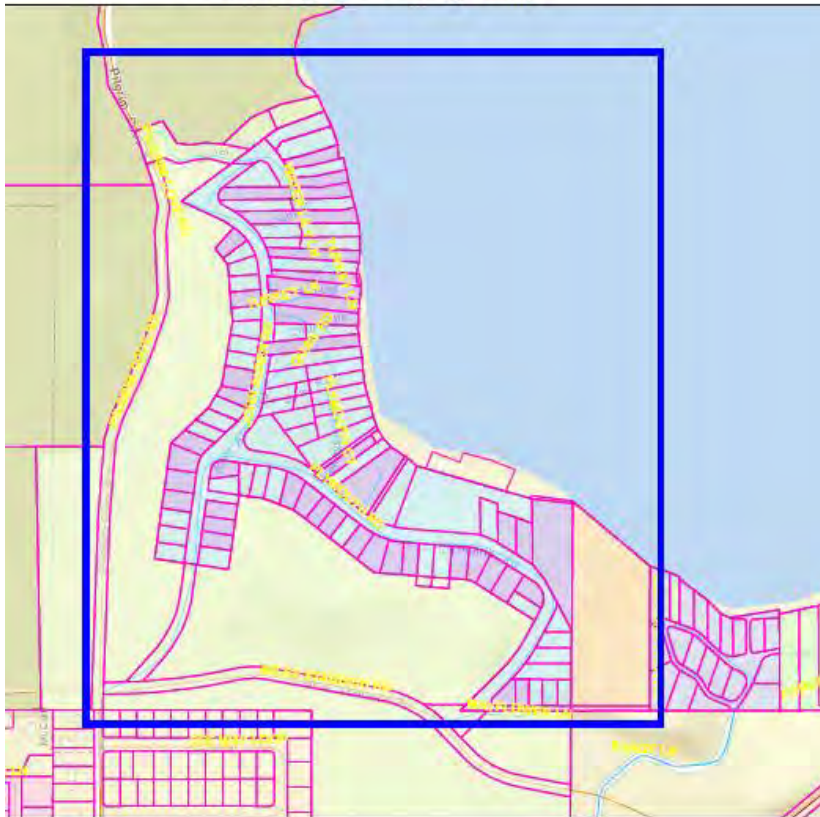
**Technology** ADSL, Cable, Fiber, Fixed Wireless, Satellite, Other  
**Speed** ≥ 25/3 Mbps  
**Date** June 2019 (latest public release)

Provider	Tech	Down (Mbps)	Up (Mbps)
ViaSat, Inc.	Satellite	35	3
Hughes Network Systems, LLC	Satellite	25	3
VSAT Systems, LLC	Satellite	2	1.3

© Mapbox © OpenStreetMap Improve this map

## Map 2 – Proposed Broadband Availability – Sparklight

Planning & Zoning Map



Sparklight - Pilgrims Cove	
Number of Households Reached	91
Broadband Speed Offered	1 Gig x 50 meg
Technology Used - Wired	Fiber/Coax

# Planning & Zoning Map







# Sparklight® GET THE MOST OUT OF YOUR INTERNET.



## LITE 15 PLUS **\$30**

⬇️ 15 Mbps DOWN

⬆️ 1 Mbps UP

100 GB DATA PLAN INCLUDED†

Available only with Phone and/or Cable TV service.

Ideal for customers who primarily surf, check email, or occasionally stream video.

### IDEAL FOR:

- Surf the web.
- Check email.
- Stream occasional video.



## STARTER 100 PLUS **\$55**

⬇️ 100 Mbps DOWN

⬆️ 10 Mbps UP

350 GB DATA PLAN INCLUDED†

This plan enables multiple devices to load web pages, download files/music, and start movies quickly. Great for occasional gamers because it provides fast updates and lower latency.

### IDEAL FOR:

- Surf the web.
- Have multiple devices.
- Download files/music.
- Stream 30 or less HD movies a month.



## STREAMER & GAMER 200 PLUS **\$65**

⬇️ 200 Mbps DOWN

⬆️ 20 Mbps UP

700 GB DATA PLAN INCLUDED†

Great for customers who game, stream and surf on multiple devices. Increased speed ensures maximum enjoyment regardless of what others may be doing on the Internet.

### IDEAL FOR:

- Game, stream and surf to the max.
- Multiple devices, multiple users, no problem.
- Streaming, gaming, uploading, downloading.



## TURBO 300 PLUS **\$80**

⬇️ 300 Mbps DOWN

⬆️ 30 Mbps UP

1200 GB DATA PLAN INCLUDED†

Perfect for the household that is a heavy Internet user. Whether you're downloading large files, games or doing some heavy video streaming, this plan will hold up to its name.

### IDEAL FOR:

- Great for mega streaming of movies and videos.
- Maximum muscle for online gaming.
- Heavy Internet usage day and night.



## GigaONE PLUS\* **\$125**

⬇️ 1000 Mbps DOWN

⬆️ 50 Mbps UP

1500 GB DATA PLAN INCLUDED†

For the customer who wants the best, GigaONE is for you.

### IDEAL FOR:

- The fastest speed available from Sparklight.
- Advantage for extreme gamers.

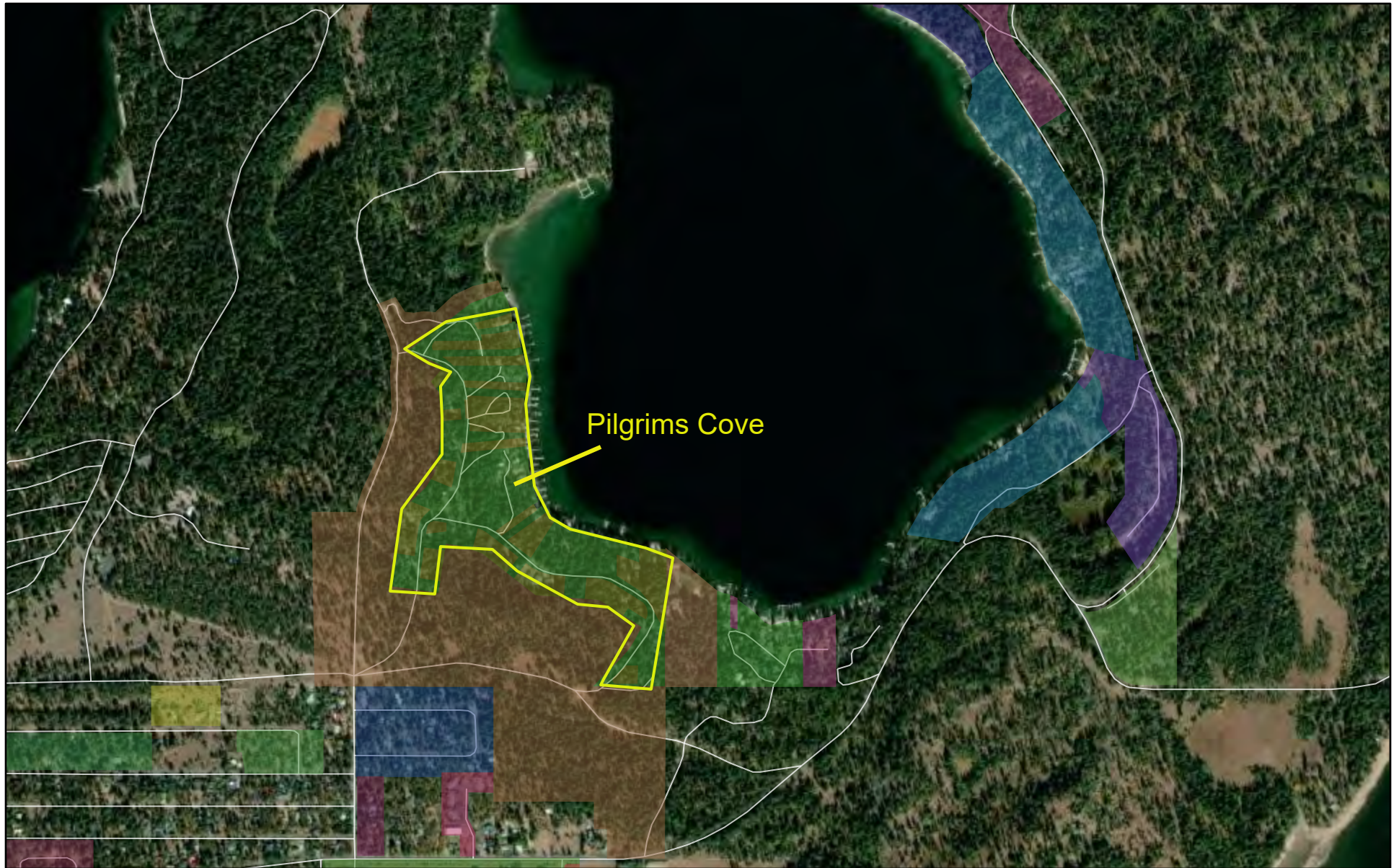
\*Not available in all areas.

Add **UNLIMITED DATA** to any plan for \$40 more per month†

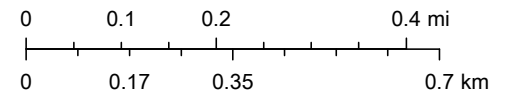
**Sparklight.com/internet | 1-855-740-8969**

†\$10 CHARGE FOR EACH ADD'L 100GB; UP TO \$50/MO. Equipment, taxes, surcharges & fees are not included in the above rate. You will be required to authorize & agree that Sparklight may obtain a consumer report about you in accordance with the Fair Credit Reporting Act from a consumer reporting agency in order to verify your eligibility to receive this and other offers, as well as determining deposits and activation fees required, if any. Full discounted installation could require enrolling in our Sparklight Easy Pay program. Customers are required to lease or purchase from an approved third party an approved modem capable of DOCSIS 3.0 in order to receive the internet services listed. Modem lease required with WiFi ONE. In-home coverage only. Sparklight manages bandwidth consumption of internet services to provide the best experience. Actual internet speeds vary by customer, based upon time of day, network congestion, customer equipment & other factors. Please visit <https://www.sparklight.com/legal/internet-aup> for internet specifics by reading our Acceptable Use Policy. All services are not available in all areas. Call for details. Make any plan unlimited for \$40 more per month. Restrictions apply.

# Pilgrims Cove location map

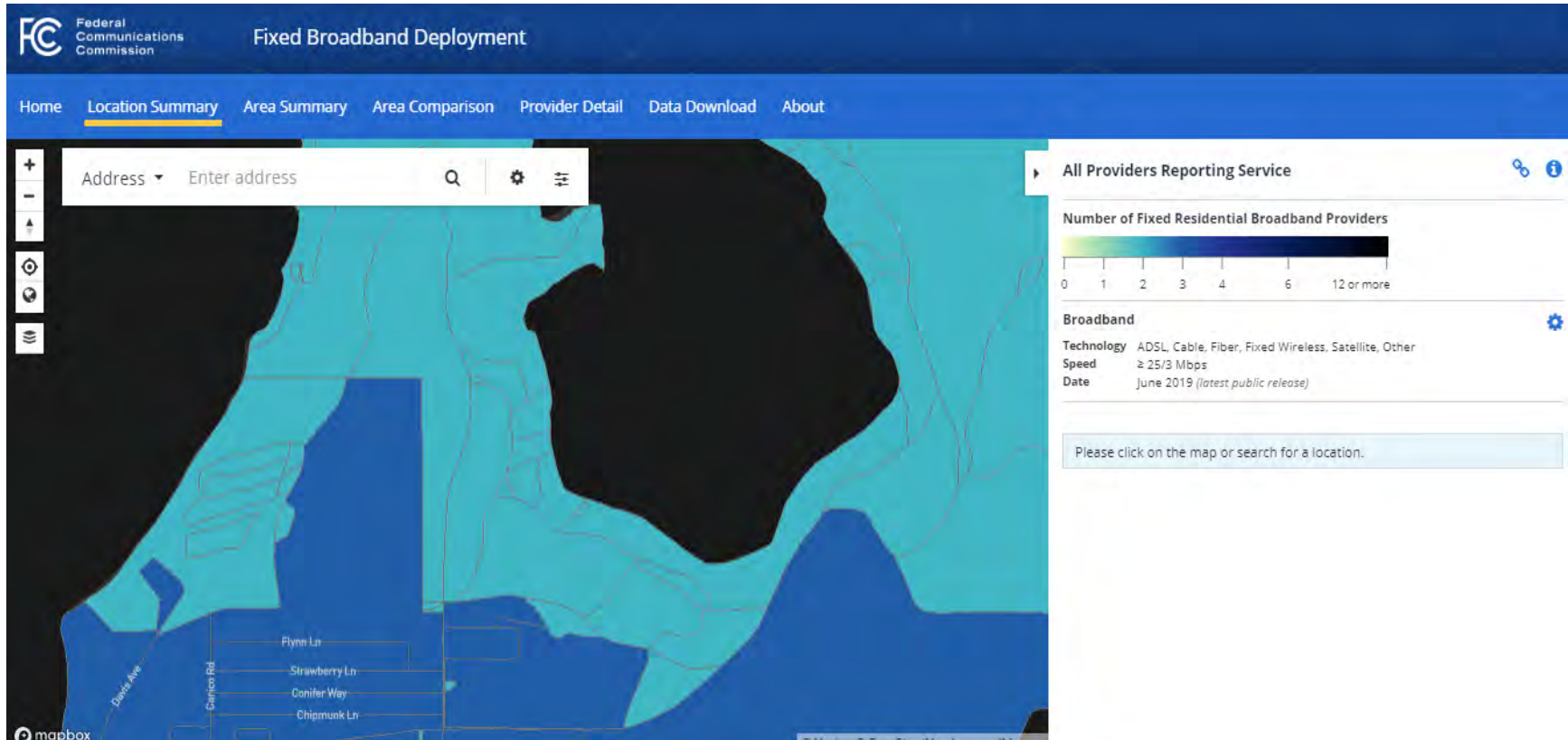


1:18,056



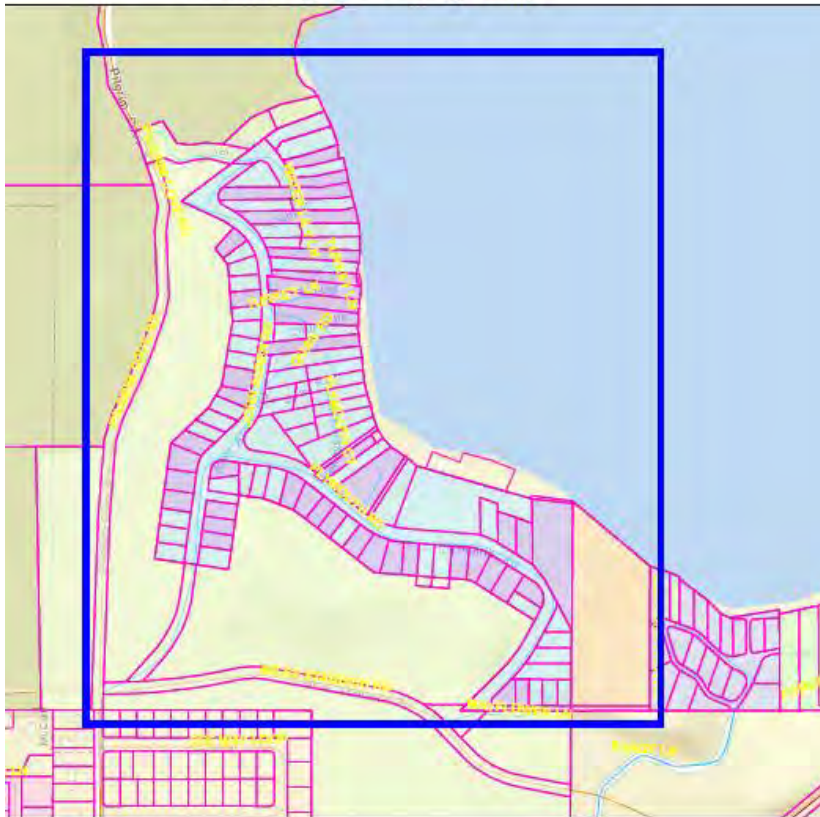
Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS,

## Map 2 – Existing Broadband Availability



# Proposed Broadband Availability – Sparklight

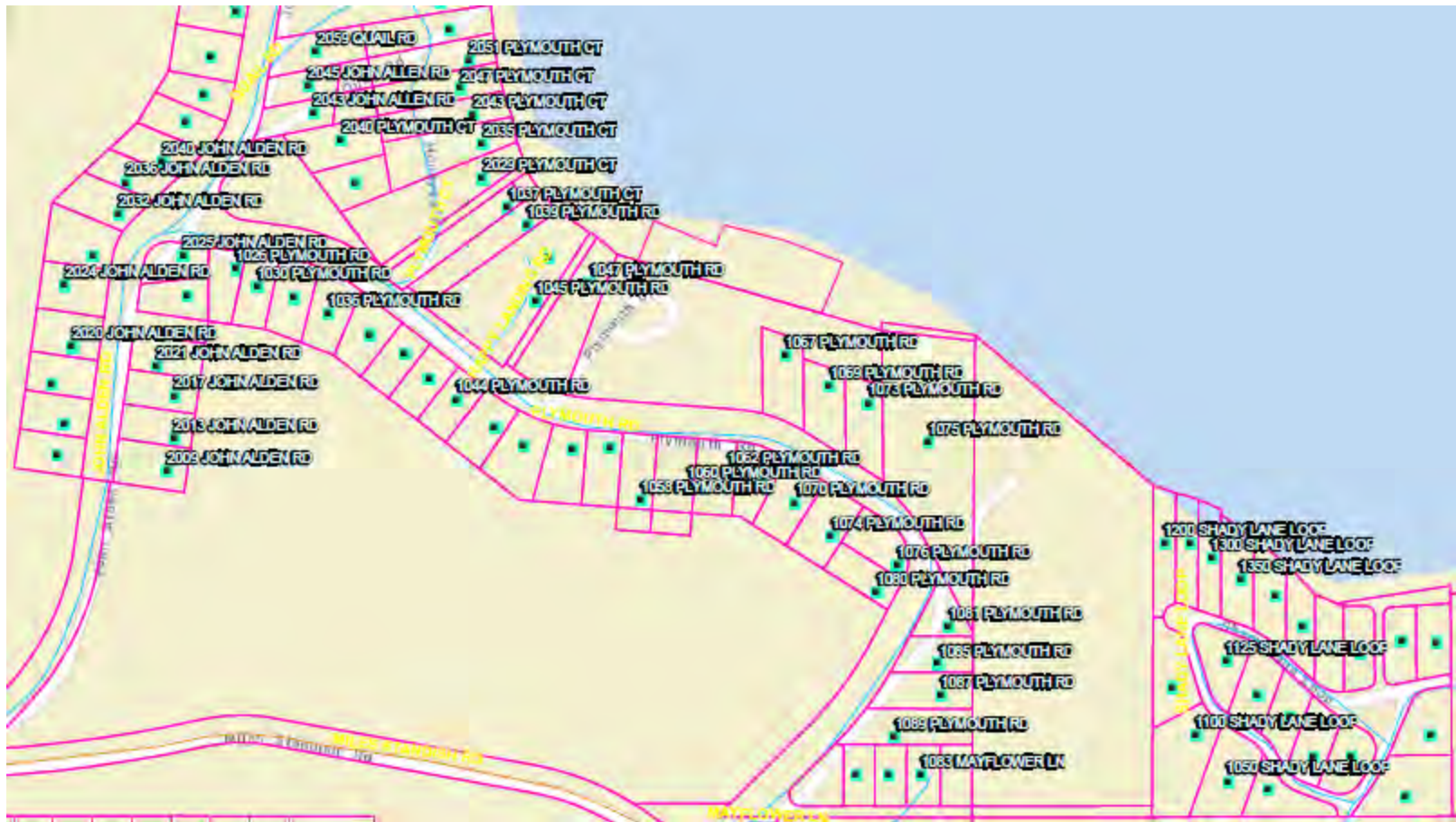
Planning & Zoning Map



Sparklight - Pilgrims Cove	
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Broadband Speed Offered	1 Gig x 50 meg
Technology Used - Wired	Fiber/Coax

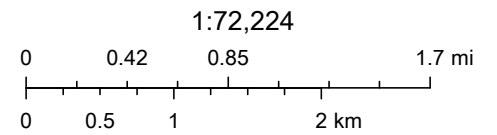
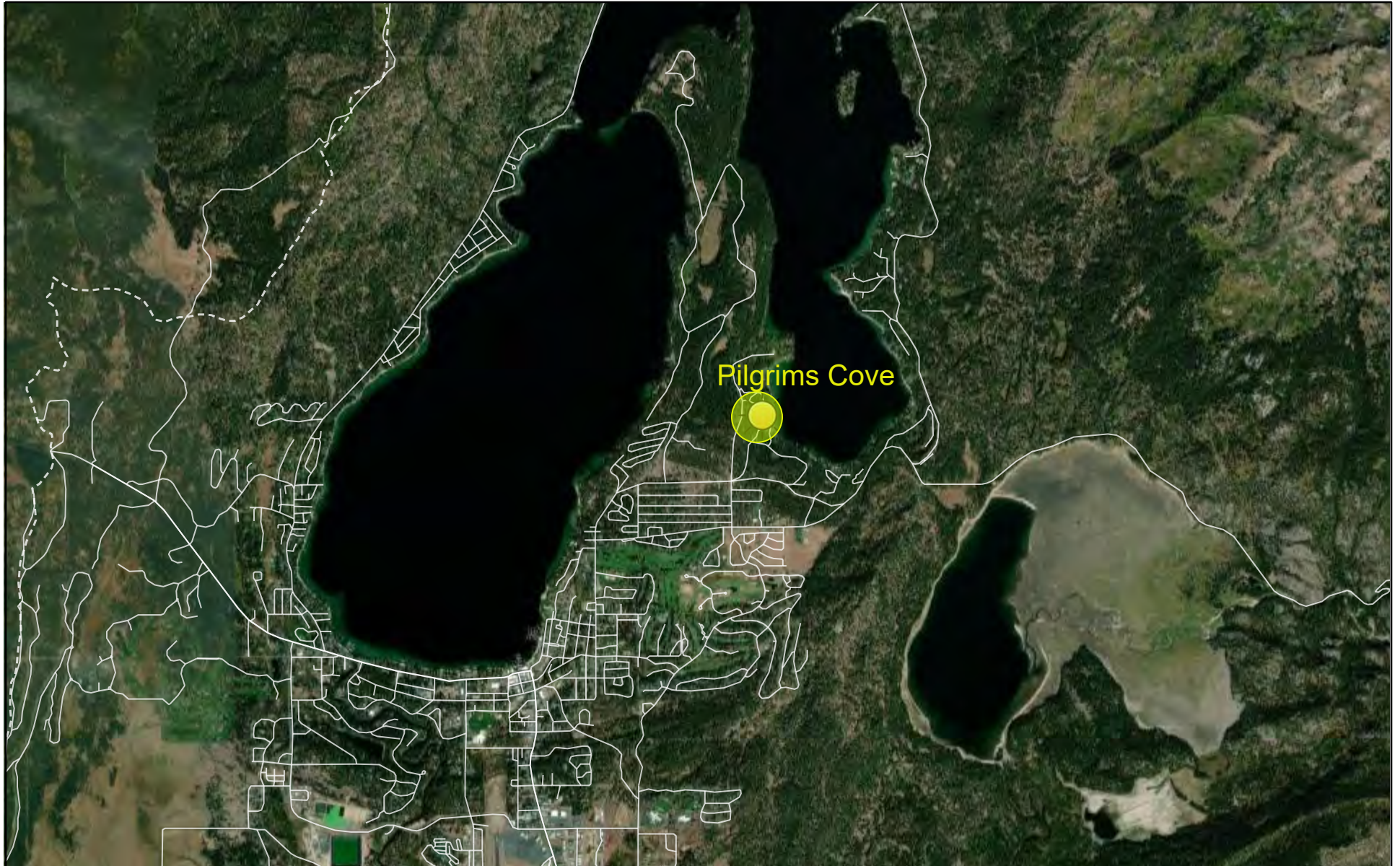
# Planning & Zoning Map







# Pilgrims Cove vicinity map



Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS,





2101 E. Karcher Rd.  
Nampa, ID 83687  
208-455-5555

July 15<sup>th</sup>, 2020

Valley County  
Mary Rosen  
Payette SWCD  
501 N. 16<sup>th</sup> St. Ste 106  
Payette, ID 83661

RE: State of Idaho Broadband Grant – Letter of Support

Dear Ms. Rosen,

I am pleased to confirm that Sparklight, Internet Service Provider, is a partner for the State of Idaho Broadband Grant application for Households. We have confirmed contractor staff availability to ensure the project meets the December 15<sup>th</sup>, 2020 completion date. Sparklight will manage the procurement and installation of broadband equipment and distribution system.

Sparklight supports the project intent to facilitate telework and distance learning by providing broadband access in Valley County and Pilgrims Cove thereby improving public safety in compliance with COVID-19 public health precautions.

Sincerely,

A handwritten signature in blue ink that reads "Juli Blanda".

Juli Blanda  
Vice President, West Division - Sparklight

A handwritten date in blue ink that reads "July 14, 2020".

Date

July 15, 2020

Valley County  
Payette SWCD  
501 N. 16<sup>th</sup> St. Ste 106  
Payette, ID 83661  
Attn: Mary Rosen, Valley County Grant Writer/Manager

RE: State of Idaho Broadband Grant – Letter of Support

Dear Ms. Rosen,


I am writing to express our support for your efforts to bring high speed internet to the homeowners in the Pilgrim Cove Subdivision. Pilgrim Cove has had restricted DSL service through buried copper wire for many years. This service has generally been 6Mb down and 1-2Mb up, when available. This is a minimum level that does not allow for streaming of any video such as Zoom, MS Teams, live TV or other media. There is fiber available at the demark at the entrance to Pilgrim Cove, but there have been no upgrades internally to the buried copper within the Cove.

For residents of Pilgrim Cove, the available bandwidth does not support reliable work from home. The recent COVID-19 pandemic has highlighted the inadequacy of our internet system both in terms of speed and reliability. In addition, students who were sent home with the idea they may perform school online are challenged with staying online on speeds necessary for interactive work.

For second homeowners, remote home security systems, cameras, heating and ventilation controls are not supportable at the current bandwidth available. In addition, cell coverage is poor in the Cove, and many homeowners rely on an internet boost for having cell coverage at their home. The current system is unreliable and therefore having cell coverage in an emergency is not a sure thing.

Thank you for your efforts in advancing the availability and speed of internet to the Pilgrim Cove area.

Sincerely,

  
Robert Looper  
President, Pilgrim Cove Home Owners Association

July 15, 2020

Valley County  
Payette SWCD  
501 N. 16<sup>th</sup> St. Ste 106  
Payette, ID 83661  
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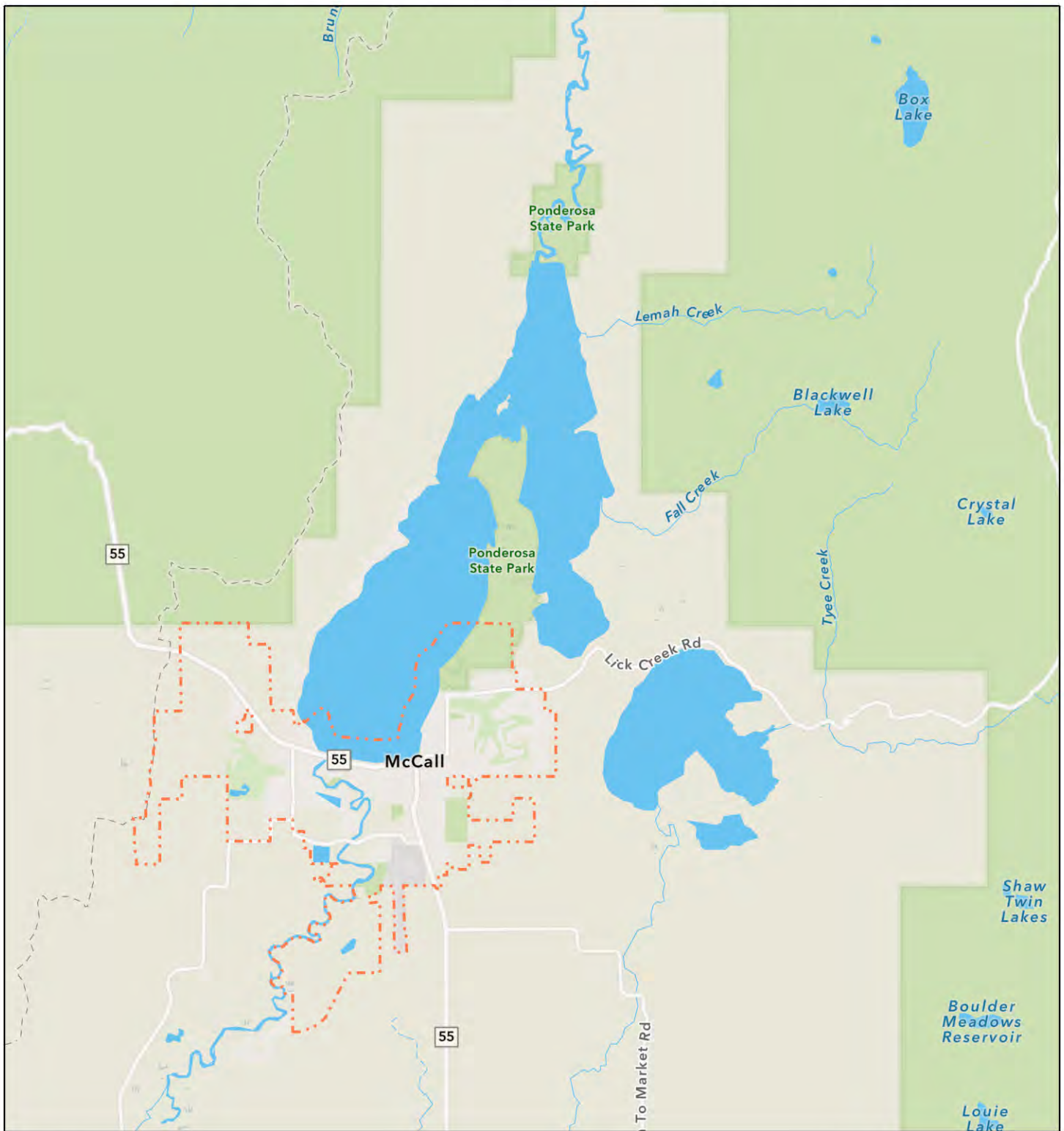
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Robert Looper  
President, Pilgrim Cove Home Owners Association

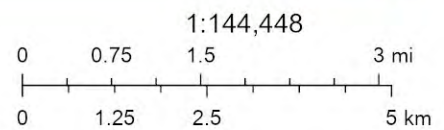


# Pilgrim Cove Project Vicinity - Valley County, ID

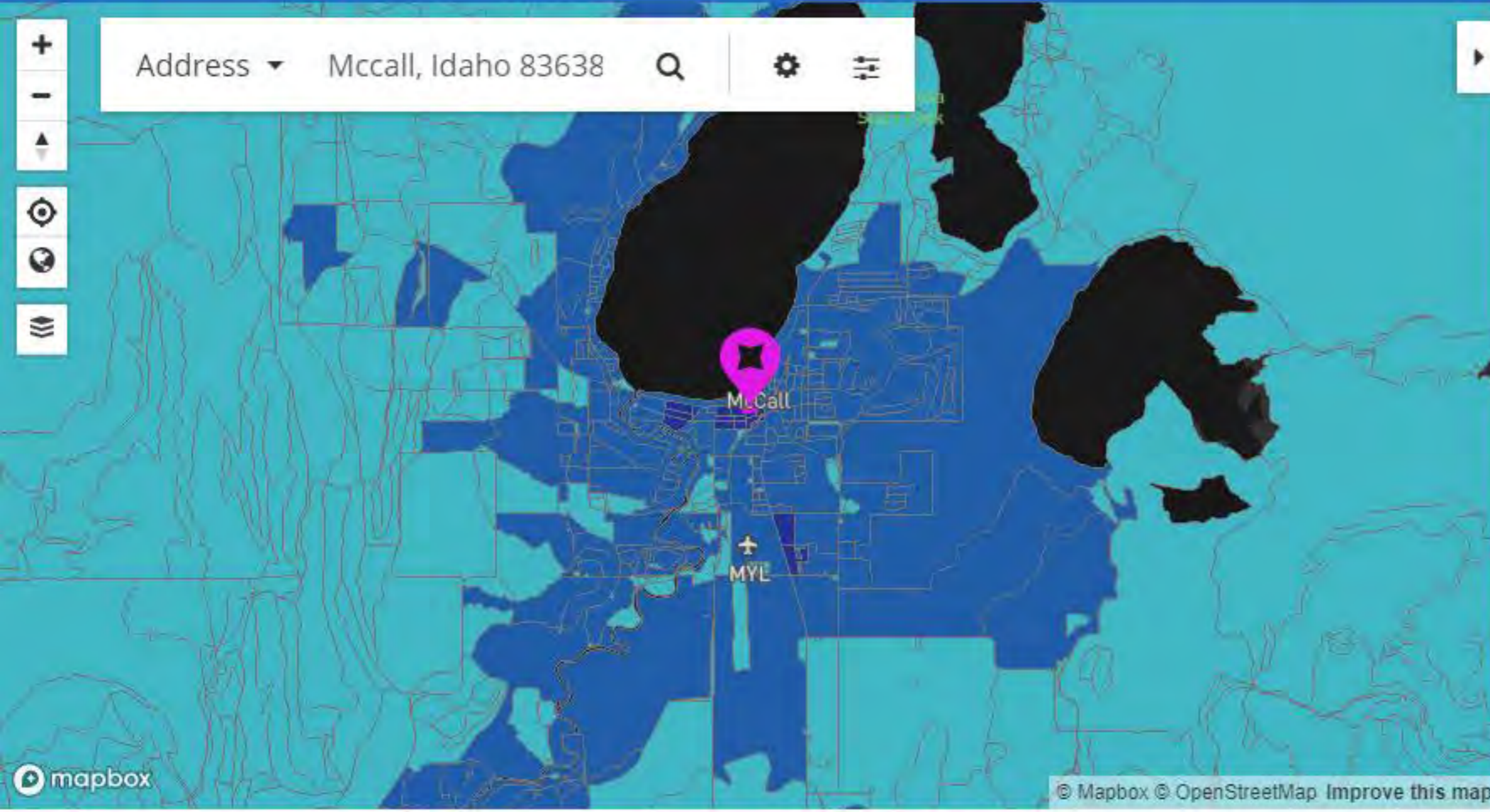


7/13/2020, 3:28:02 PM

 City Limits



Sources: Esri, HERE, Garmin, FAO, NOAA, USGS, © OpenStreetMap contributors, and the GIS User Community



### All Providers Reporting Service

Census block ID: 160859703001001

#### Number of Fixed Residential Broadband Providers

0 1 2 3 4 6 12 or more

#### Broadband

**Technology** ADSL, Cable, Fiber, Fixed Wireless, Satellite, Other  
**Speed** ≥ 25/3 Mbps  
**Date** June 2019 (latest public release)

Provider	Tech	Down (Mbps)	Up (Mbps)
Cable One, Inc.	Cable	1000	50
ViaSat, Inc.	Satellite	35	3
Frontier Communications Corporation	ADSL	25	2



Pilgrim Cove Camp & Conference Center

Pilgrim Cove

Creek Lodge