



## ARPA-24

ARP Application - Jefferson County

**Status:** Active

**Date Created:** Nov 3, 2021

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### Applicant

Michelle Gordon  
mgordon@jeffersoncountywv.org  
PO Box 250, 124 E Washington St  
124 E Washington St  
Charles Town, WV 25414  
3047248425

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### Internal Section

### Certification

#### Digital Signature

Michelle Gordon  
11/03/2021

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### Contact Information

#### Organization Name

Jefferson County Commission

#### Address

PO Box 250, Charles Town, WV 25414

#### Website (if applicable)

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#### Phone Number

304-724-8425

#### Email Address

mgordon@jeffersoncountywv.org

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### Project Summary

#### 1. Brief description of the proposal

Broadband Committee point-to-point links to connect various projects.  
JC Health Dept Tower \$205,483  
Middleway Fire Dept \$205,483  
Blue Ridge Tower \$205,483  
Shepherdstown Water Tank \$41,000  
City of Charles Town Water Tanks (6 tanks) \$246,000  
Point to point Equipment (per set) \$9,356  
Total \$912,805

**2. Purpose and key anticipated outcomes**

County Request

**3. Individuals or communities served**

County Request

**4. How the COVID-19 pandemic has necessitated this request**

County Request

**5. Amount of funding requested**

912,805

**6. Amount of any bids or cost estimates received to date, if applicable**

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**7a. Amount of matching funds raised or committed by your organization**

0

**7b. Source of matching funds raised or committed by your organization**

0

**8. How ARP funds, if awarded, will be used**

County Request

**9. How long it will take you to complete the project if awarded funding**

County Request

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**Proposal Details**

**1. Please describe the problem or need which your project seeks to address**

County Request

**2. Please describe goals and expected outcomes of your proposal.**

County Request

**3. Please provide your project timeline**

County Request

**4. Please provide your project's total proposed budget.**

County Request

**5. Please list any partners in this proposal, and the partner’s role and your relationship with them.**

County Request

**6. Please describe your plan for sustainability of the project or initiative after the grant award has been exhausted.**

County Request

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**Organization Information**

**1. Please provide your organization’s mission statement.**

County Request

**2. Describe the history of your organization, tell us about your current programs and activities**

County Request

**3. Please describe three significant accomplishments of your organization.**

TO BE COMPLETED BY APPLICANT

**4. Please list your Owner(s), Board of Directors, senior staff members, or other key members of your organization:**

County Request

**5. Please list the staff involved with this project and describe their roles and responsibilities:**

County Request

**Cash flow statement for applicant's most recent fiscal year**

☐ Uploaded by ... on

**Two years of audited financial statements**

☐ Uploaded by ... on

**Current operating budget**

☐ Uploaded by ... on

**If the applicant has not been audited, please include an unaudited balance sheet and income statement as prepared by the applicant**

☐ Uploaded by ... on

**7. List any federal, state, local or private grant awards or funding received in the last three years and the current status of those funds. If your organization has previously received funds from Jefferson County, please list the amount, nature of the project(s) and current status of the funding and project(s).**

County Request

**8. If you have made an application for funding for this project from other sources (city, state, private or non-profit organizations) please list the same here.**

County Request

Impact of the COVID-19 Pandemic

1. Please explain the impact of the COVID-19 pandemic and how it relates to your request.

County Request

2. How will ARP funding, if awarded, aid in the recovery from the COVID-19 pandemic?

County Request

3. Are you requesting lost revenue due to COVID-19

No

Supplementary Information


1. Please enter contact information (name, email, and phone) for at least one third-party reference.

County Request

2. Please include any supplementary information or documentation (such as letters of support, newspaper articles, etc) which you feel will be essential to the County's review.

 Uploaded by ... on

Attachments

 ARPA-24 Region 9-Broadband Email 2021-07-02.pdf  
Uploaded by Michelle Gordon on Nov 3, 2021 at 12:52 pm

History

Date	Activity
Nov 3, 2021 at 12:41 pm	Michelle Gordon started a draft of Record ARPA-24
Nov 3, 2021 at 12:47 pm	Michelle Gordon submitted Record ARPA-24
Nov 3, 2021 at 12:47 pm	approval step Application Review was assigned to Michelle Gordon on Record ARPA-24
Nov 3, 2021 at 12:47 pm	changed the deadline to Nov 04, 2021 on approval step Application Review on Record ARPA-24
Nov 3, 2021 at 12:52 pm	Michelle Gordon added attachment ARPA-24 Region 9-Broadband Email 2021-07-02.pdf to Record ARPA-24
Nov 3, 2021 at 1:37 pm	Michelle Gordon changed Email Address from "ddeamer@region9wv.com" to "mgordon@jeffersoncountywv.org" on Record ARPA-24
Nov 3, 2021 at 1:37 pm	Michelle Gordon changed Website (if applicable) from "www.region9wv.com" to "" on Record ARPA-24
Nov 3, 2021 at 1:37 pm	Michelle Gordon changed Address from "400 W Stephen St, Suite 301, Martinsburg, WV 25401" to "PO Box 250, Charles Town, WV 25414" on Record ARPA-24
Nov 3, 2021 at 1:37 pm	Michelle Gordon changed Organization Name from "Eastern Panhandle Regional Planning & Development Council" to "Jefferson County Commission" on Record ARPA-24

Date	Activity
Nov 3, 2021 at 1:37 pm	Michelle Gordon changed Phone Number from "304-263-1743" to "304-724-8425" on Record ARPA-24
Nov 3, 2021 at 1:38 pm	Michelle Gordon changed 2. Purpose and key anticipated outcomes from "TO BE COMPLETED BY APPLICANT" to "County Request" on Record ARPA-24
Nov 3, 2021 at 1:38 pm	Michelle Gordon changed 3. Individuals or communities served from "TO BE COMPLETED BY APPLICANT" to "County Request" on Record ARPA-24
Nov 3, 2021 at 1:38 pm	Michelle Gordon changed 4. How the COVID-19 pandemic has necessitated this request from "TO BE COMPLETED BY APPLICANT" to "County Request" on Record ARPA-24
Nov 3, 2021 at 1:38 pm	Michelle Gordon changed 8. How ARP funds, if awarded, will be used from "TO BE COMPLETED BY APPLICANT" to "County Request" on Record ARPA-24
Nov 3, 2021 at 1:38 pm	Michelle Gordon changed 9. How long it will take you to complete the project if awarded funding from "TO BE COMPLETED BY APPLICANT" to "County Request" on Record ARPA-24
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Nov 3, 2021 at 1:38 pm	Michelle Gordon changed 4. Please provide your project's total proposed budget. from "TO BE COMPLETED BY APPLICANT" to "County Request" on Record ARPA-24
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Nov 3, 2021 at 1:38 pm	Michelle Gordon changed 4. Please list your Owner(s), Board of Directors, senior staff members, or other key members of y from "
Nov 3, 2021 at 1:38 pm	Michelle Gordon changed 5. Please list the staff involved with this project and describe their roles and responsibilities: from "
Nov 3, 2021 at 1:38 pm	Michelle Gordon changed 7. List any federal, state, local or private grant awards or funding received in the last three y from "
Nov 3, 2021 at 1:38 pm	Michelle Gordon changed 8. If you have made an application for funding for this project from other sources (city, state, from "
Nov 3, 2021 at 1:39 pm	Michelle Gordon changed 1. Please explain the impact of the COVID-19 pandemic and how it relates to your request. from "
Nov 3, 2021 at 1:39 pm	Michelle Gordon changed 2. How will ARP funding, if awarded, aid in the recovery from the COVID-19 pandemic? from "
Nov 3, 2021 at 1:39 pm	Michelle Gordon changed 1. Please enter contact information (name, email, and phone) for at least one third-party reference. from "

Date	Activity
Nov 3, 2021 at 1:46 pm	Michelle Gordon altered Record ARPA-24, changed applicantUserID from "David Deamer" to "Michelle Gordon"

**Michelle Gordon**

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**From:** Sandra McDonald  
**Sent:** Friday, July 2, 2021 1:10 PM  
**To:** Michelle Gordon  
**Subject:** FW: Jefferson County Fixed Wireless Cost Estimates  
**Attachments:** Jefferson Broadband Fixed Wireless Cost Estimates.pdf

**From:** David Deamer [mailto:ddeamer@region9wv.com]  
**Sent:** Thursday, July 01, 2021 9:34 AM  
**To:** Stephanie Grove <sgrove@jeffersoncountywv.org>; Sandra McDonald <Sandy@jeffersoncountywv.org>  
**Cc:** Rachel Snavely <rsnavely@region9wv.com>; Jennifer Wishmyer <jobrien@region9wv.com>  
**Subject:** Jefferson County Fixed Wireless Cost Estimates

Stephanie and Sandy,

I wanted to send you cost estimates for the projects that were discussed during yesterday's Jefferson County Broadband Committee Meeting. Attached are the cost estimates created by Design Nine for your reference as well. The cost estimates below are the "high unit costs" for each project. The total cost may increase based on the number of point-to-point links needed to connect the projects, but I did include the cost one set to illustrate the price.

Fixed Wireless Projects	
Description	Cost
JC Health Department Tower	\$205,483.00
Middleway Fire Department	\$205,483.00
Blue Ridge Tower	\$205,483.00
Shepherdstown Water Tank	\$41,000.00
City of Charles Town Water Tanks (6 tanks)	\$246,000.00
Point to Point Equipment (Per Set)	\$9,356.00
Total	\$912,805.00

Please let me know if you have any questions.

Thank you,

**David Deamer**  
**Implementation Coordinator**  
 Eastern Panhandle Regional Planning and  
 Development Council  
 400 W. Stephen Street, Suite 301

Martinsburg, WV 25401  
304-263-1743 - Office  
717-818-5463 - Mobile  
[ddeamer@region9wv.com](mailto:ddeamer@region9wv.com)



## Existing Tower Improvements

For existing towers owned by the state, the county, or other stakeholders that might be candidates for project use, modest upgrades to equipment at the base of the tower would be needed to make them broadband-ready.

Upgrades to existing towers typically may include adding or upgrading generators, additional cabinet or shelter space for service provider equipment, and sometime fencing and physical access changes.

Note that this estimate represents a worst-case scenario. If the site already has a generator that can be used by a new WISP co-locating on the tower, that could reduce the cost by as much as \$7,500. If no road improvements are needed and existing electric service does not require a new H-frame and meter, another savings of up to about \$3,000 is possible. If the tower has a current certification (i.e. had a formal engineering inspection), additional savings are possible, bringing the best-case cost to about \$11,000 to \$12,000.

### Existing Tower Development and Improvements (Fit-up)

ITEM/PROJECT	UNITS	UNIT COST (LOW)	UNIT COST (HIGH)	COST (AVG)
Tower Study / Survey	1	\$4,500	\$7,000	\$5,750
Site Development (Clearing, Road Improvements, etc.)	1	\$0	\$1,500	\$750
Small Telecom Cabinet AmProd AM47P-2636-24RU or Equivalent	1	\$6,000	\$7,500	\$6,750
10kW Liquid Propane Generator	1	\$4,000	\$6,000	\$5,000
Cabinet Foundation and Installation	1	\$2,500	\$4,000	\$3,250
New Power Service / Installation (assumes power available on-site)	1	\$1,500	\$2,500	\$2,000
Power System Installation Labor	1	\$300	\$500	\$400
Generator Installation Labor	1	\$1,250	\$1,700	\$1,475
Propane Service Installation - tank and install by local gas company	1	\$750	\$1,250	\$1,000
Project management				\$10,000
<b>Total:</b>				<b>\$36,375</b>

## New Tower

New towers have a range of configurations and cost options. This estimate is for a new 180 ft bare tower with no radio equipment. If located on existing county properties, the time needed to plan for construction can be shortened. If site acquisition or a site lease of private property is required, purchase or lease negotiations can add several months to the process. Note that a full permitting process may be required even if a new tower is placed on existing county-owned property. The permit process can add 60 to 120 days to the time needed to put a new tower in service.

### New Tower Costs (180' Guyed)

ITEM/PROJECT	UNITS	UNIT COST (LOW)	UNIT COST (HIGH)	COST (AVG)
Labor and Contracting: \$82,640				
Site Development (Clearing, Road Improvements, etc.)	1	\$15,000	\$15,000	\$15,000
New Power Service / Installation	1	\$1,250	\$3,450	\$2,350
180' Guyed Tower Construction Labor & Contracting	1	\$50,000	\$74,750	\$62,375
Cabinet Installation Labor	1	\$600	\$1,150	\$875
Power System Installation Labor	1	\$300	\$575	\$438
Generator Installation Labor	1	\$1,250	\$1,955	\$1,603
Materials: \$35,735				
180' Guyed Tower Construction Materials	1	\$17,500	\$27,500	\$22,500
Small Telecom Cabinet	1	\$4,000	\$6,000	\$5,000
Cabinet Foundation and Installation Materials	1	\$1,000	\$1,500	\$1,250
10kW Liquid Propane Generator	1	\$4,000	\$6,000	\$5,000
Spare Fuses	1	\$10	\$20	\$15
Power System Installation Materials	1	\$20	\$40	\$30
Samlex 1000W Inverter	1	\$350	\$450	\$400
Samlex SEC1230-UL Battery Charger	1	\$200	\$300	\$250
100ah 12v Non Spillable Backup Battery	4	\$250	\$350	\$1,200
DC Voltage Monitoring Device	1	\$40	\$60	\$50
Unmanaged Rack Mount PDU (6O)	1	\$35	\$45	\$40
Total:				\$118,375
Project Management, Network Design				\$37,500
Site Engineering, Surveying, Viewshed Analysis, Etc.				\$9,500
Misc Fees, Technical Services				\$7,500
Contingency				\$11,838
TOTAL:				\$184,713