



**POWDER RIVER COUNTY,
MONTANA
PRCO**

**MONTANA GEOSPATIAL
INFORMATION ACT
GRANT APPLICATION**

STATE FISCAL YEAR 2025: JULY 1, 2024 – JUNE 30, 2025



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SECTION 1 – ORGANIZATION, PARTNER, & PROPOSAL INFORMATION

Primary Applicant Contact Information <i>(Please fill this section out in its entirety)</i>	
Name of Agency/Entity:	Powder River County
Department:	Commission
Division/Section:	911
Street:	119 N. Park Avenue
City:	Broadus
County:	Powder River
State:	MT
Zip Code:	59317
Project Manager Contact Information:	
Name:	Lori Fortner
Title:	Commissioner
Email Address:	lfortner@prco.mt.gov
Phone Number:	307 680 6400
Fax Number:	
Secondary Project Manager Contact Information:	
Name:	Cynde Jo Gatlin
Title:	Clerk and Recorder
Email Address:	cgaitlin@prco.mt.gov
Phone Number:	406-436-2361
Fax Number:	
MGIA Grant Funding Request & Match:	
Total Requested MGIA Funds:	\$ 30,800.00
Total Matched Funds:	\$1200 Software upgrades and supporting PRCO GIS specialist time

Proposal Information	
Identified Grant Priority:	<i>1.</i>
Annual or Multi-Year Proposal:	<i>Annual</i>
Proposal Prepared By:	Lori Fortner
Short Title of Proposal:	Continuing the implementation of NG911 and geo-elections for Powder River County: Next steps in improving road centerlines, addresses, and boundaries to NENA standards.
<p>Executive Summary: PRCO has a history of promoting the development and use of spatial data in resource management and emergency services. Earlier work was done on digitizing addresses and roads. PRCO was the first in the State to reach NG911 readiness for boundaries, addresses, and road centerlines. PRCO proposes the following tasks, all with the goal of continuing the implementation of NG911 and geo-elections. All the tasks listed below directly address MGIA Grant Priorities. The tasks include a major addition to road centerlines, matching road centerlines to adjoining Counties, correction of tabular data used in the present 911 system, updating addresses to meet geo-election standards, aggregating data to MSL archives and other central repositories, and updating County Emergency Services with the updated road centerline and address data. The priorities are described in MGIAFY2025_GrantProgramPriorities.pdf.</p> <p>Addressing Priority 1A:</p> <p>Addresses and Road Centerlines will be significantly improved by updating with new information, and validating using the MSL GIS Data Validation and Aggregation Portal.</p> <p>All errors in the MSAG (Master Street Address Guide) and the ALI (Automatic Location Identification) will be corrected. These tables are used in the present 911 system.</p> <p>The next steps in the NG911 process is cross boundary matching with other counties, both for road centerlines and ESN (Emergency Service Areas). Surrounding counties have sufficient data for matching. This task provides that matching.</p> <p>Addressing Priority 1C1:</p> <p>All addresses will be spatially updated to geo-election standards.</p> <p>Addressing Priority 2c:</p> <p>Publication of updated data for Public Safety, and Emergency Management needs in the County. This turns the updated spatial data into relevant geographic information (maps).</p>	

Funding Partners: <i>(required for each partner, copy box as needed)</i>	
Name of Contact:	
Name of Agency:	
Street:	
City:	
County:	
State:	
Zip Code:	
Contact Email Address:	
Contact Phone Number:	

SECTION 2 – RELEVANCE

Meeting the Purpose of the Montana Geospatial Information Act: This proposal relies on defined NENA NG911 standards using Industry-standard software for all tasks. It is sustainable, since all data are archived at the Montana State Library for future use, and is available for dissemination through that entity.

All tasks listed below directly address the Grant Priorities listed above.

Priority 1A:

Addresses and Road Centerlines will be significantly improved by updating with new information, and validating using the MSL GIS Data Validation and Aggregation Portal.

All errors in the MSAG (Master Street Address Guide) and the ALI (Automatic Location Identification) will be corrected. These tables are used in the present 911 system.

The next steps in the NG911 process is cross boundary matching with other counties, both for road centerlines and ESN (Emergency Service Areas). Surrounding counties have sufficient data for matching. This task provides that matching.

Priority 1C1:

All addresses will be spatially updated to geo-election standards.

Priority 2c:

Publication of updated data for Public Safety, and Emergency Management needs in the County

This turns the updated spatial data into relevant geographic information (maps).

SECTION 3 – PUBLIC BENEFIT

This project directly addresses MSDI themes by addressing these theme priorities.

1. Administrative Boundaries (NG911 NENA compliant PSAP (Public Safety Answering Point), Law, emergency medical services and Fire Districts.
2. Structures and Addresses (NG911 NENA compliant PRCO structures and addresses)
3. Transportation (NG911 NENA compliant road centerlines)

Updating of electronic tables (MSAG and ALI) used in the current 911 system will benefit all citizens needing emergency services.

Cross-County boundary matching of NG911 data will benefit surrounding Counties and the future NG911 statewide system.

This project will benefit public Elections by updating addresses to meet geo-election standards. The citizens of PRCO will benefit from the local publication of publicly available maps and documentation, as well as from their use by Public Safety Organizations.

SECTION 4 – PROJECT MANAGEMENT AND ORGANIZATIONAL CAPABILITY

Powder River County managed the 911 grant in 2020 and was the 1st county in Montana to complete the 911 Next Gen upgrade. We will take the experience we attained and apply it to this grant process if awarded including the reporting requirements, communicating with the State Library, fulfilling the data requirements and managing all hired consultants. We are very proud to be the 1st county to complete the requirements of this grant and look forward to the next opportunity.

Powder River County has had multiple grant projects. The most recent is ongoing with the complete replacement of 4 bridges. The county has been very involved with our engineering firm and our grant manager (SEMDC) from the planning stages, bidding process and the awards. We have completed 2 of the bridge projects, the other 2 are will be completed this spring.

South Eastern Montana Development Corporation (SEMDC) has managed our EDA grant that provided the monies for the bridges. We have a great working relationship with this entity.

Examples of the invoice document and cover memo are included as separate documents.

SECTION 5 – SCOPE OF WORK

Goal 1. Improve NG911 NENA compliant spatial data for present and future steps in NG911 implementation, and current tabular data used in current 911 systems for PRCO.

Objective 1.1. Update PRCO address and road centerline spatial data using the MSL GIS Data Validation and Aggregation Portal.

Task 1.1.1. NG911 NENA compliant incorporation of additional road centerlines to existing road centerline spatial data.

This task addresses MGIA Priority 1A.

During the 2023 contract to upgrade 1,000 miles of road centerlines to NG911 standards, additional roads were recommended for inclusion. This includes 830 miles of National Forest roads and 500 miles of additional minor roads. Some of these roads are used now in emergency service dispatch and location of incidents, but are not integrated in the NG911 data set, and are not route-capable.

This task includes addition and validation through of 1,350 miles of roads through the MSL GIS Data Validation and Aggregation Portal. The condition/quality of the 830 miles of National Forest roads is unknown. Estimated time reflects that unknown. Condition/quality of the 500 miles of minor roads in good. This task also includes updates of service boundaries outside of southeast PRCO pursuant to law enforcement agreements with Carter County.

-Completion Date: August 1 of 2024

Objective 1.2. Match road centerlines with surrounding County data.

Task 1.2.1. Cross-boundary match all road centerlines with adjoining Counties to NG911 NENA standards.

This task addresses MGIA Priority 1A.

The three counties bordering PRCO (Custer, Big Horn, Rosebud, and Carter) have all made significant progress in NG911 updates. The next steps in implementation of NG911 include matching of road centerlines and other boundaries across counties.

This task includes coordination with those Counties, adjustments of centerlines as necessary and data validation.

-Completion Date: Sept. 1, 2024

Objective 1.3. Update and Correction of MSAG and ALI tables used in the current 911 system using the MSL GIS Data Validation and Aggregation Portal.

Task 1.3.1. NG911 NENA compliant Update and Correction of MSAG and ALI.

This task addresses MGIA Priority 1A.

In 2023 PRCO used a Montana Department of Administration grant to update its spatial data to NG911 standards. Addresses, boundaries, and road centerlines were updated successfully using the MSL GIS Data Validation and Aggregation Portal. All validation items were either 98 or 100% complete, save for the MSAG and ALI. These two were less successful.

The MSAG (Master Street Address Guide) is used in dispatching resources to addresses in the legacy 911 system. The MSAG validation was at 79%. Most errors were related to changes in road centerlines and addresses.

The ALI (Automatic Location Identification) is also used in dispatching resources in the legacy 911 system. The ALI was at 97% validation, but other checks of the 1,020 records showed about 1/3 were not consistent with current addresses.

This task is for updating the MSAG and ALI to meet NG911 standards. It may require rebuilding the MSAG and ALI, comparing and adjusting current addresses and road centerlines if necessary, and quality control to avoid breaking other aspects of the Legacy 911 system.

-Completion Date: Oct. 1, 2024

Goal 2. Improve PRCO address spatial data to meet standards for geo-elections and make data sustainable and available.

Objective 2.1. Adjust address spatial data to meet geo-election standards.

Task 2.1.1. Review and Update of spatial accuracy of addresses (structures) for Elections and Aggregation of data to MSL

This task addresses MGIA Priority 1C1.

PRCO addresses and structure points need to meet quality standards for geo-enabled elections.

As of 2023, an estimate on a random line of 44 structures showed 17 over 120 ft from the dwelling and 10 about 25 ft. from the dwelling. One was at least 1,000 feet from its true location. That is about 85%. This indicates a significant number of the total 1,319 structures require some adjustments.

This task is to review and adjust all structures to the standard for geoelections using the orthophoto image provided by MSL. Some structures may need field review.

This review requires knowledge of aerial interpretation, as well as efficient GIS skills, and extensive knowledge of the MSL GIS Data Validation and Aggregation Portal.

-Completion Date: November 1, 2024

Objective 2.2. Aggregate all adjusted spatial data (addresses, road centerlines, MSAG, ALI, and Emergency Services Boundaries to MSL archives.

Task 2.2.1 Aggregate project data to archives and service providers.

This task addresses MGIA Priority 1A.

Aggregate all updated spatial data (addresses, road centerlines, Emergency Service Areas) to the MSL GIS Data Validation and Aggregation Portal, and tabular MSAG and ALI data to Central Link (the provider of current 911 location services). This step must be performed after the above tasks are completed to assure the latest data are aggregated.

- Completion Date: Dec. 15, 2024

Goal 3. Disseminate updated information for citizen and Public Safety use.

Objective 3.1. Publication of updated spatial data

Task 3.1.1. Update of County Resource Maps and County Emergency Services Runbooks with 2024 spatial data

This task addresses MGIA Priority 2c.

Hardcopy Resource and Run Book maps have been created and updated through 2022. However, they have been made using 2018 legacy data. The 2018 data have since been significantly updated as follows:

1. Road centerlines have been updated in 2023 (1,050 miles) adjusting addressing data, and joining/adjusting road locations to meet NG911 standards. Structure locations have been adjusted to more closely meet NG911 and Elections standards. About 20% of the 1,321 structures were either created or adjusted by location. The PSAP (Public Service Answering Point boundary) and ESN (emergency service areas) have been adjusted to meet MSL and NG911 requirements.
2. The current grant tasks an additional 750 miles of roads, adjusted locations of about 1,000 address points, and boundary adjustments, and all route-capable.

This task is to utilize the updated spatial data in the NG911 Repository to re-publish these maps. They are used extensively by Law Enforcement (e.g. Search and Rescue, Dispatch), Emergency Medical Services, the Clerk and Records Office, and Fire. Geographic Information Software has evolved since their last publication, so the original maps must be converted to the newer systems. This task is dependent on finishing the other tasks in this grant request.

- Completion Date: Dec. 30, 2024

Deliverables:

Task 1.1.1: Deliverables: NG911 compatible road centerline spatial data (about 2,300 miles) all of which meet NG911 standards

Task 1.2.1: Deliverables: road centerline spatial data (about 2,300 miles) all of which meet NG911 standards for cross-boundary compatibility.

Task 1.3.1: Deliverables: MSAG and ALI tables meeting NG911 standards (100% validation), implemented in the telephone (Century Link) 911 system and updated address and road centerline data.

Task 2.1.1: Deliverables: NG911 compatible structure/address spatial data (about 1,300 points) all of which meet geo-election standards for location.

Task 2.2.1: Deliverables: addresses, road centerlines, and Emergency Service Areas uploaded (aggregated) to the MSL GIS Data Validation and Aggregation Portal. Validated MSAG and ALI data uploaded to the service provider (Century Link). Validated addresses and road centerlines to Dispatch software (through Central Square).

Task 3.1.1.: Deliverables: 60" x 60" resource maps and County run books using 2024 spatial data in pdf format suitable for print or mobile use.

SECTION 6 – BUDGET JUSTIFICATION & BUDGET TABLE

PRCO proposes a single consultant to complete these tasks. The consultant is familiar with the MSL validation process, PRCO county data, and has 40 years experience in GIS and emergency services. The consultant will provide hardware compatible with MSL. Software updates of \$900 may be needed, and are contributed by PRCO.

Almost all the project requests are for specialist time. About 10 percent is requested for administrative time by the County (project manager, grants administrator, clerical).

Section 7 – Project Sustainability

This project is sustainable. All spatial data are aggregated and made available via the MSL GIS Data Validation and Aggregation Portal. All map products are archived at PRCO on their secure drives.

SECTION 8 - RENEWABLE GRANT ACCOUNTABILITY

No previous MGIA grants, but there is a previously completed grant funded by the Montana Department of Administration in their 911 grant program for 2020.

Powder River County

INVOICE

1234

PO Box 200
Broadus, MT 59317
406-436-2361 406-436-2151 (fax)

DATE: January 1, 2024
INVOICE # 1234
FOR: *Professional services*

Bill To:

DESCRIPTION	AMOUNT
1/1/2024 Professional services	\$ -
<p><i>Please make check payable to: POWDER RIVER COUNTY</i> <i>Please mail payment to PO BOX 200 BROADUS, MT</i> <i>or drop payment off at the CLERK & RECORDER'S OFFICE</i></p>	
TOTAL	\$ -

Make all checks payable to ***Powder River County***
If you have any questions concerning this invoice please call 406-436-2361
Cynde Jo Gatlin, Clerk & Recorder Tommie Rousseau, Deputy Clerk
THANK YOU FOR YOUR BUSINESS!

Powder River County

INVOICE

PO Box 200
Broadus, MT 59317
406-436-2361 406-436-2151 (fax)

DATE: February 26, 2024
INVOICE # 120
FOR: *Airplane Fuel*

Bill To:
Broadus Motels

DESCRIPTION	AMOUNT
<i>INVOICE #091260</i> <i>AV Gas:</i> <i>52.08 gals. @ \$6.13 = \$ <u>319.25</u></i>	\$ 319.25
TOTAL	\$ 319.25

Make all checks payable to ***Powder River County***

Powder River County PO Box 200 Broadus, MT 59317
Phone: 406-436-2361
Cynde Jo Gatlin, Clerk & Recorder
cgatlin@prco.mt.gov

THANK YOU FOR YOUR BUSINESS!

Authorizing Statement

I hereby certify that I have read the above application for the FY2025 MGIA Grant Program and the information and all statements in this application are true, complete and accurate to the best of my knowledge and that the project or activity complies with all applicable state, local and federal laws and regulations.

I further certify that this project will comply with applicable statutory and regulatory standards. I further certify that I am (by my signature) authorized to enter into a binding agreement with the Montana State Library to obtain a grant if this application receives approval.

Lori Fortner

County Commissioner

Applicant Authorized Signer Name

Title

DocuSigned by:
Lori Fortner
C85FFDD10A14413...
Signature

3/18/2024

Date

Complete Grant Application package Received by:

Erin Fashoway

Montana GIS Coordinator

Erin Fashoway, MSL

Title

DocuSigned by:
Erin Fashoway
898149F544564A6...
Signature

3/18/2024

Date

Certificate Of Completion

Envelope Id: CD43BB367CAF43E1B289A7B5D7CB56DA
 Subject: Complete with DocuSign: MGIA_FY25_Application_PowderRiverCounty.pdf
 Source Envelope:
 Document Pages: 19 Signatures: 2
 Certificate Pages: 2 Initials: 0
 AutoNav: Enabled
 Envelope Stamping: Enabled
 Time Zone: (UTC-07:00) Mountain Time (US & Canada)

Status: Completed
 Envelope Originator:
 Sean Anderson
 PO Box 201800
 Helena, MT 59620-1800
 sanderson@mt.gov
 IP Address: 161.7.39.7

Record Tracking

Status: Original Holder: Sean Anderson Location: DocuSign
 3/5/2024 12:10:58 PM sanderson@mt.gov
 Security Appliance Status: Connected Pool: StateLocal
 Storage Appliance Status: Connected Pool: Montana State Library Location: DocuSign

Signer Events

Lori Fortner
 lfortner@prco.mt.gov
 County Commissioner
 Security Level: Email, Account Authentication (None)

Signature

DocuSigned by:

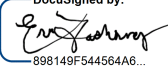
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 Signature Adoption: Pre-selected Style
 Using IP Address: 161.7.21.63

Timestamp

Sent: 3/8/2024 4:08:43 PM
 Resent: 3/14/2024 2:23:42 PM
 Resent: 3/15/2024 3:24:53 PM
 Viewed: 3/18/2024 9:57:17 AM
 Signed: 3/18/2024 10:01:35 AM

Electronic Record and Signature Disclosure:
 Not Offered via DocuSign

Erin Fashoway
 efashoway@mt.gov
 Montana GIS Coordinator
 State of Montana
 Security Level: Email, Account Authentication (None)

DocuSigned by:

 898149F544564A6...
 Signature Adoption: Drawn on Device
 Using IP Address: 161.7.106.120

Sent: 3/18/2024 10:01:37 AM
 Viewed: 3/18/2024 10:39:30 AM
 Signed: 3/18/2024 10:39:30 AM

Electronic Record and Signature Disclosure:
 Not Offered via DocuSign

In Person Signer Events	Signature	Timestamp
Editor Delivery Events	Status	Timestamp
Agent Delivery Events	Status	Timestamp
Intermediary Delivery Events	Status	Timestamp
Certified Delivery Events	Status	Timestamp
Carbon Copy Events	Status	Timestamp

Lori Fortner
 lfortner@prco.mt.gov
 County Commissioner
 Security Level: Email, Account Authentication (None)

COPIED

Sent: 3/18/2024 10:39:31 AM

Electronic Record and Signature Disclosure:
 Not Offered via DocuSign

Carbon Copy Events	Status	Timestamp
MLIA Grants mliagrants@mt.gov Security Level: Email, Account Authentication (None)	COPIED	Sent: 3/18/2024 10:39:31 AM
Electronic Record and Signature Disclosure: Not Offered via DocuSign		

Witness Events	Signature	Timestamp
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Notary Events	Signature	Timestamp
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Envelope Summary Events	Status	Timestamps
Envelope Sent	Hashed/Encrypted	3/8/2024 4:08:43 PM
Certified Delivered	Security Checked	3/18/2024 10:39:30 AM
Signing Complete	Security Checked	3/18/2024 10:39:30 AM
Completed	Security Checked	3/18/2024 10:39:31 AM

Payment Events	Status	Timestamps
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