



CARBON COUNTY MTRSN STATION BUILDOUT

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	
Name of Agency/Entity:	Carbon County
Department:	GIS & Addressing
Division/Section:	
Street:	10 Oakes Ave S
City:	Red Lodge
County:	Carbon
State:	MT
Zip Code:	59068
Project Manager Contact Information:	
Name:	Tom Kohley
Title:	GIS Coordinator / Fire Warden
Email Address:	tkohley@co.carbon.mt.us
Phone Number:	406-445-7270
Fax Number:	406-446-2640
Secondary Project Manager Contact Information:	
Name:	Angela Newell
Title:	Administrator Officer
Email Address:	anewell@co.carbon.mt.us
Phone Number:	406-445-7252
Fax Number:	406-446-2640
MGIA Grant Funding Request & Match:	
Total Requested MGIA Funds:	\$30,985
Total Matched Funds:	\$ 4,198

Proposal Information	
Identified Grant Priority:	<i>Tier 2 Priority: RTN Network Buildout</i>
Annual or Multi-Year Proposal:	<i>N/A</i>
Proposal Prepared By:	Tom Kohley
Short Title of Proposal:	<i>Buildout of a Montana State Reference Network (MTSRN) Station in Red Lodge</i>
Executive Summary:	
<p><u>Acronyms used in this application</u> CORS – Continuously Operating Reference Station GNSS – Global Navigation Satellite System MDT – Montana Department of Transportation MOU – Memorandum of Understanding MSL – Montana State Library MTSRN – Montana State Reference Network NOAA – National Oceanic and Atmospheric Administration RFP – Request for Proposals RTN – Real Time Network RTCM - Radio Technical Commission for Maritime Services</p> <p>The area of Carbon County is over 2,000 square miles and contains diverse geography with elevations ranging from about 12,500' to 3,300'. Currently, only one MTSRN station exists in the County and is located outside the community of Bridger in the Clarks Fork River drainage.</p> <p>The County desires to build out the MTSRN by adding a station in the community of Red Lodge at the County Fairgrounds (109.25914° W, 45.18035° N). Although this site is less than the recommended 30 miles from the closest RTN, Kazi Arifuzzaman, Montana RTN Coordinator, has approved this site as a suitable location for inclusion into the MTSRN as it services the eastern half of the County.</p> <p>This proposed reference station site is non-alluvial stable and has 1) legal, but controlled access, 2) reliable power with a backup generator, and 3) Internet access with speeds in access of 100 Mbps with a backup Internet connection and 4) no obstructions within a 10° horizon when elevated at 20 feet.</p> <p>We intend to attach the reference station antenna to the County's backup Emergency Operations Center (EOC) with either with a building mount assembly or possibly a stable tower mount to achieve an unobstructed horizon. The County views the EOC and the Fairgrounds as a valuable County asset and intends to support and enhance the facility for the foreseeable future.</p> <p>The project can be successfully completed with a combination of MGIA funds (\$30,985), in-kind County match (\$1,189), County cash match (\$1500), and in-kind funding partner match (\$1,500) for a total project cost of \$35,174.</p>	

Funding Partners: <i>(required for each partner, copy box as needed)</i>	
Name of Contact:	Kate Stout
Name of Agency:	Red Lodge Surveying, Inc.
Street:	606 Grant Ave S
City:	Red Lodge
County:	Carbon
State:	MT
Zip Code:	59068
Contact Email Address:	kstout@rlsurvey.com
Contact Phone Number:	406-446-1860

SECTION 2 – RELEVANCE

Not Applicable as Carbon County is applying for a MTSRN buildout.

SECTION 3 – PUBLIC BENEFIT

Not Applicable as Carbon County is applying for a MTSRN buildout.

SECTION 4 – PROJECT MANAGEMENT AND ORGANIZATIONAL CAPABILITY

Carbon County has the project management and organizational capacity needed to complete this project on time and within budget. Carbon County has been the successful recipient of four MLIA grant awards (2012, 2013, 2015 and 2016) and has a proven history of products that benefit the mission of the MSDI. The following individuals offer a unique combination of knowledge, technical skills and experience necessary to accomplish the objectives and tasks outlined in this proposal.

Tom Kohley will serve as primary MGIA project manager. He has over 30 years of GIS experience and currently serves as the GIS Coordinator for the County. Tom has managed multiple grants including MLIA (4 years), Emergency Management Performance Grant program (5 years), State Homeland Security Grant program (2 years), Volunteer Firefighters Award grant (7 years) and Recreational Trails Program (3 years).

Tom will be responsible for overall project management and will serve as the liaison with the MGIA program. He will be the primary contact with all vendors and contractors. He will prepare RFPs as needed, draft the quarterly reports, test the reference station, make all purchases, and will submit the final installation report and invoice the program for all work completed.

Angela Newell will serve as the secondary MGIA project manager and will be responsible for integrating the grant money into appropriate County budgets, preparation of grant reimbursement paperwork and final closeout of the grant in accordance with state and county standards. Mrs. Newell has served as Administrative Assistant to the Commissioners for over 10 years. During that tenure, she has administered several grants for the County including the County's four previous MLIA grants. Mrs. Newell successfully completed the Grant Writing USA workshop on grant management in 2013.

Carbon County has a well-defined procurement policy in place that will be adhered to if products or services need to be secure by the County.

A sample of a past MLIA invoice is provided in this application package for review.

SECTION 5 – SCOPE OF WORK

- Goal 1. Procure services for construction/installation of reference station
 - Objective 1.1. Secure GNSS hardware & software vendor
 - Task 1.1.1. Contract with GNSS vendor - follow Carbon County procurement procedures/schedule to request proposals from and select qualified GNSS vendors to provide hardware, software and installation of reference station and field mapping equipment.
 - Completion Date: 09/01/2024
 - Task 1.1.2. Purchase GNSS base station receiver, antenna and accessories – purchase a Trimble GNSS receiver, antenna and components and ensure they are compatible with the current MTSRN. A quote for an Trimble Alloy base station receiver and antenna from Frontier Precision is included with this application to provide an accurate cost estimate.
 - Completion Date: 09/15/2024
 - Objective 1.2. Secure Registered Land Surveyor
 - Task 1.2.1. Contract with Registered Land Surveyor – Develop a scope of work/contract with Red Lodge Surveying, Inc. (in-kind funding partner) to assist with the monumentation needed for the reference station.
 - Completion Date: 10/15/2024
- Goal 2. Install and test reference station
 - Objective 2.1. Construct infrastructure to support reference station
 - Task 2.1.1. Construct antenna mount and install support components – construct/install building and bracket or tower mount antenna and any electrical/network/grounding components needed to support the reference station.
 - Completion Date: 12/1/2025
 - Objective 2.2. Complete monumentation and installation of hardware & software
 - Task 2.2.1. Work with GNSS vendor to install antenna and receiver
 - Completion Date: 1/15/2025
 - Task 2.2.2. Work with registered land surveyor to complete monumentation for station
 - Completion Date: 2/15/2025
 - Task 2.2.3. Draft installation report – develop a detailed installation report including documentation of serial numbers, photos, diagrams and site contacts.
 - Completion Date: 3/15/2025
 - Objective 2.3. Test receiver
 - Task 2.3.1. Purchase GNSS data collector / receiver – The county will purchase a RTN-compatible receiver to 1) test the reference station and 2) enhance data collection and asset inventory for the County. A quote for a Trimble R580 receiver configured for sub foot accuracy from Frontier Precision is included with this application to provide an accurate cost estimate.
 - Completion Date: 3/1/2025

Task 2.3.2. Test reference station using GNSS data collector – The newly purchased GNSS receiver (Task 2.3.1) will be used to verify streaming of RTCM corrections and test the accuracy of the reference station and rover.

-Completion Date: 4/31/2025

Goal 3. Project closeout

Objective 3.1. Closeout grant

Task 3.1.1. Deliver and review final grant deliverables to MGIA grant program - Submit to the State the final grant project report, financial report, any data products, and final financial requests to the State Library.

-Completion Date: 05/30/2025

Deliverables will include an installation report for the reference station that will contain diagrams, photographs, serial numbers and site contacts to assist with any future troubleshooting that may occur.

SECTION 6 – BUDGET JUSTIFICATION & BUDGET TABLE

The total cost to complete this project is \$35,174. This includes \$30,985 of MGIA grant funds, \$1,189 of Carbon County in-kind match, \$1,500 of Carbon County cash and \$1,500 of in-kind match from a local surveyor. The bulk of the expenses (\$21,685) includes the purchase of the GNSS receiver, antenna, accessories, onsite installation and training. The cost estimate for these items and services has been provided by Frontier Precision of Bozeman and is included with this application. Carbon County's in-kind match will be provided by the project manager, Tom Kohley, at a rate of \$41/hour.

We anticipate constructing a building or tower mounted antenna system which may involve excavation, concrete work, trenching, bracketing, electrical and communication networking to establish these support components. The contractor(s) cost is estimated at \$2,000 with \$800 in materials.

Monumentation for the reference station and/or a nearby survey monument will be completed by our funding partner, Red Lodge Surveying, Inc. as an in-kind match (\$1,500). A letter of support from our funding partner, Red Lodge Surveying, is included with our application package.

MGIA grant funds are being requested to pay for 80% of a GNSS field mapping receiver (\$6,500) in order to test the reference station and the RTCM corrections that it will provide. The remaining 20% (\$1,500) will be paid for by the County using local land information funds. The County will continue to use the field receiver after testing to collect assets such as culverts, signs, valves, monuments, etc. as part of an ongoing effort to inventory assets and bring them into GIS.

SECTION 7 – PROJECT SUSTAINABILITY

The proposed site, the Carbon County Fairgrounds, is a county-maintained facility and used for multiple events, trainings, exercises and meetings. The building we intend to “attach” the reference station receiver and antenna to is the backup Emergency Operations Center or EOC for the County. As such, the facility has backup diesel-powered generator, Internet speeds in excess of 100 Mbps with a backup Internet provider (Lumen Technologies) and has legal but controlled access to the building. The County views the EOC and the Fairgrounds as a valuable County asset and intends to support and enhance the facility for the foreseeable future.

We anticipate that receiver and antenna maintenance for the MTSRN will be covered through the newly imposed subscription fees. Other potential funding sources for maintenance or replacement include local recordation fees managed by the County.

Carbon County is willing to sign an MOU with the MSL for long term maintenance of the reference station.

SECTION 8 - RENEWABLE GRANT ACCOUNTABILITY

Carbon County has been the recipient of four MLIA grant awards in 2012, 2013, 2015 and 2016. All of which have been managed by the current project managers.



February 27, 2024

Montana State Library
Montana Geospatial Information Act Grant Program
PO Box 201800
Helena, Montana 59620

Grant Administrators:

The City of Red Lodge is writing in support of Carbon County's application to the MGIA grant program to establish a Montana Real-Time Network (MTRSN) station in Red Lodge.

The City will utilize the MTRSN to enhance its collection of utility assets (water, sanitary sewer and stormwater features) and incorporate these features into the City's evolving GIS database. The collection of assets using a high precision GNSS receiver in concert with the Real Time Network will greatly increase the efficiency of inventory and add value to our data collection efforts.

We request that you fund this project as it will greatly enhance data collection and GIS database development for both the City and County.

Sincerely,

A handwritten signature in blue ink, appearing to read "Mike Maples".

Mike Maples
Public Works Director

A handwritten signature in black ink, appearing to read "Dave Westwood".

Dave Westwood
Mayor, City of Red Lodge





www.rlsurvey.com

406-446-1860 • 606 S Grant Ave • PO Box 986 • Red Lodge • MT 59068

Montana State Library
Montana Geospatial Information Act Grant Program
PO Box 201800
Helena, Montana 59620

February 28, 2024

Grant Administrators:

Red Lodge Surveying LLC is writing in support of Carbon County's application to the MGIA grant program to establish a Montana Real-Time Network (MTSRN) station in Red Lodge. As a funding partner to the application, we are committed to work with the County in establishing this much needed base station.

Red Lodge Surveying will utilize the MTSRN to enhance its collection of geodetic control in the County which may in future years be used to increase the accuracy of Montana Spatial Data Infrastructure (MSDI) Framework layers such as mapping control and cadastral.

We request that you fund this project as it will greatly enhance data collection and GIS database development for both the City and County.

Sincerely,

A handwritten signature in blue ink, appearing to read "Kate Stout".

Kate Stout
owner
Red Lodge Surveying



FY2025 MGIA Grant Application Requirements for Establishing MTSRN Station Template

The Montana Land Information Act (MLIA) Grant Program has developed a tier-2 priority to support the buildout of the Montana State Reference Network (MTSRN). Grant funding may be available to build or support the development of Continually Operating Reference Stations (CORS) deemed significant to the network. Please see the [map of current MTSRN Stations](#).

If you see a location on the current status map of Montana State Reference Network (MTSRN) that appears to lack coverage and you have a potential reference station site in mind, please contact us. Reference stations require a stable place to mount an antenna (bedrock or non-alluvial stable ground on which to construct a pillar or drill brace mount or a solid structure preferably a single-story building to mount an antenna. The location could be your business location, a local school, or other facility as long as there is legal access (or the ability to secure legal access), reliable power (120V 5A is sufficient) and a way to connect the station to the internet.

The requirements for establishing RTN station are similar to the requirements for NGS Continuously Operating Reference Stations (CORS). Applicants for Grant Program are advised to consult the attached [CORS Guidelines \(pdf\) - August 2020](#) for technical aspects of establishing a station. You can also visit NGS webpage: https://geodesy.noaa.gov/CORS/Establish_Operate_CORS.shtml.

We will consider stations/sites at least 30 miles from existing RTN stations. The grant program requires the grantee enter into a contractual agreement. Additionally, prior to a station being added to the network, the station owner will be required to acknowledge their contribution to the network.

We have modified the NGS documentation into a table that describes your proposed project – Please fill out as completely as possible, and consult the specified sections in the [CORS Guidelines \(pdf\) - August 2020](#) as needed. This completed form should be submitted along with other Grant application materials.

All questions regarding this template and MTSRN should be directed to Kazi Arifuzzaman, Montana Realtime Network Coordinator: karifuzzaman@mt.gov.

Distance to nearest Existing RTN station is more than 30 miles	18 miles	MTBR
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Additional comments: Although MTBR is located less than 30 direct miles from the proposed RTN station in Red Lodge, the Montana RTN Coordinator, Kazi Arifuzzaman, has approved this site as a suitable location for inclusion into the MTSRN.

Site Location and Obstructions Section B.2

B.2.a	Location	Carbon County Fairgrounds 109.25914° W 45.18035° N
B.2.b	Obstructions	None > 20' and within 10° horizon
B.2.c	Radio Frequency Environment	VHF radio antennas in vicinity but not currently in use. Microwave dish nearby for Internet access

Additional comments: VHF radio antennas on top of EOC roof but not currently in use. Microwave dish on same side of building as proposed antenna site. More investigation needed if this will be in conflict with GNSS antenna.

Ground-based Monument Section B.3.

B.3.a	Top of pillar width narrower than antenna	N/A
B.3.b	Braced monument	N/A

Additional comments:

Roof-based Monument Section B.4.

B.4.a	Building made of mortar	No
B.4.b	Mount attachment bolts	TBD
B.4.b	Mount bolted length to free standing length	TBD

Additional comments: The current plan is attach antenna directly to building (Backup Emergency Operations Center (EOC)) building or a 20' lattice tower secured in concrete adjacent to (and secured to) the EOC building.

Attach. Antenna, Mount and Monument, Orienting Antenna, Antenna Cable Section B.5-B.7.

B.5	Leveling and orienting device	TBD
B.5	Antenna level	TBD
B.6	Antenna oriented to North	TBD
B.7	Antenna cable tension	TBD

Additional comments: We will work with a qualified GNSS/surveying company to determine these specifications.

Equipment Section C.

C.1	Valid antenna type	Zephyr 3 Geodetic
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C.2	Valid radome type	TBD
C.3	Valid receiver type	Trimble Alloy GNSS

Additional comments:

Site Metadata: Digital Photographs Section E.1.		Photograph name
A	Photograph showing the monument (pillar/ braced/building) and antenna	[ssss]_monu_[yyyymmdd]
B	Photograph showing the mark	[ssss]_mark_[yyyymmdd]
C	Photograph that shows how the antenna is attached to the monument	[ssss]_ant_monu_[yyyymmdd]
D	Photograph of view 000 (north)	CEOC_ant_000_20240228
E	Photograph of view 090 (east)	CEOC_ant_090_20240228
F	Photograph of view 180 (south)	CEOC_ant_180_20240228
G	Photograph of view 270 (west)	CEOC_ant_270_20240228
	If the antenna is on a roof, you must include the following:	
H	Photograph showing “clearly” how the antenna is attached to the building.	[ssss]_ant_bldg_[yyyymmdd]
I	A photograph showing the antenna and the roof surface	[ssss]_ant_roof_[yyyymmdd]
J	A photograph of the antenna showing model and serial number	[ssss]_ant_sn_[yyyymmdd]
K	A photograph of the receiver showing model and serial number	[ssss]_rec_sn_[yyyymmdd]
L	A photograph of the receiver location	CEOC_rec_20240228
M	Resolution and size of photographs	

Additional comments: Most photographs will be completed upon installation of the reference station.

Site Metadata: Site Log Section E.2

(S.1,S.3,S.4 are log file sections)

S.1	Detailed monument information	
S.1	Height of monument and dimensions of material	
S.1	Dimensions of building/monument foundations	
S.1	Description of materials used	
S.3	Receiver name and serial number match photograph	
S.3	Receiver install and removed dates are valid	
S.4	Antenna name and serial number match photograph	
S.4	Antenna install and removed dates are valid	
S.4	Antenna cable type and length	
S.11-12	Contact information	

Additional comments: All TBD



Backup EOC

Proposed Reference Station Antenna

RODEO RD

Carbon County Fairgrounds

PREFS

+045.180431° / -109.258886° ↑ 5768ft

MAIL

MAP

02/28/24

◀ N ▶

12:09:09

LOG

-05
-01.5°
00

-05
00
+05

▶ SHOW EXTRAS...

268° S88W 4764mils TRUE

▶ WHAT'S NEW...

ZERO

A-B

CAL

240 | | W | | 300

COLOR

1.0 X

📷 S

PREFS

+045.180366° / -109.259174° ↑ 5771 ft

MAIL

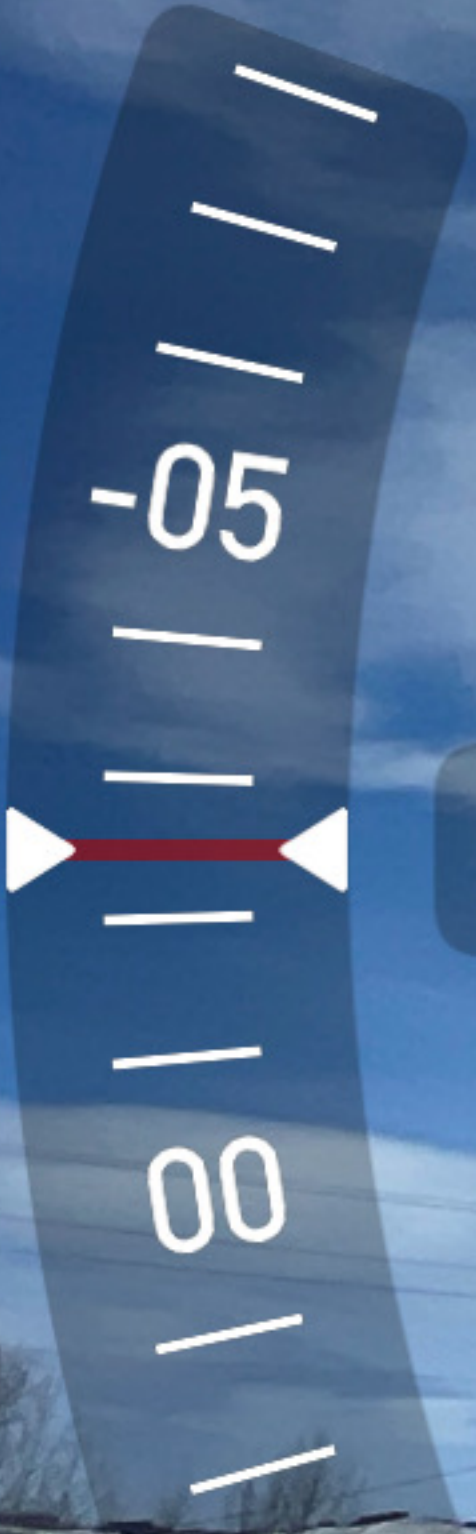
MAP

02/28/24

◀ N ▶

12:04:20

LOG



-02.5°



+10.0°

▶ SHOW EXTRAS...

003° N03E 0053mils TRUE

▶ WHAT'S NEW...

ZERO

A-B

CAL



COLOR

0.5 X

📷 S

PREFS

+045.180357° / -109.259184° ↑ 5767ft

MAIL

MAP

02/28/24

◀N▶

12:04:36

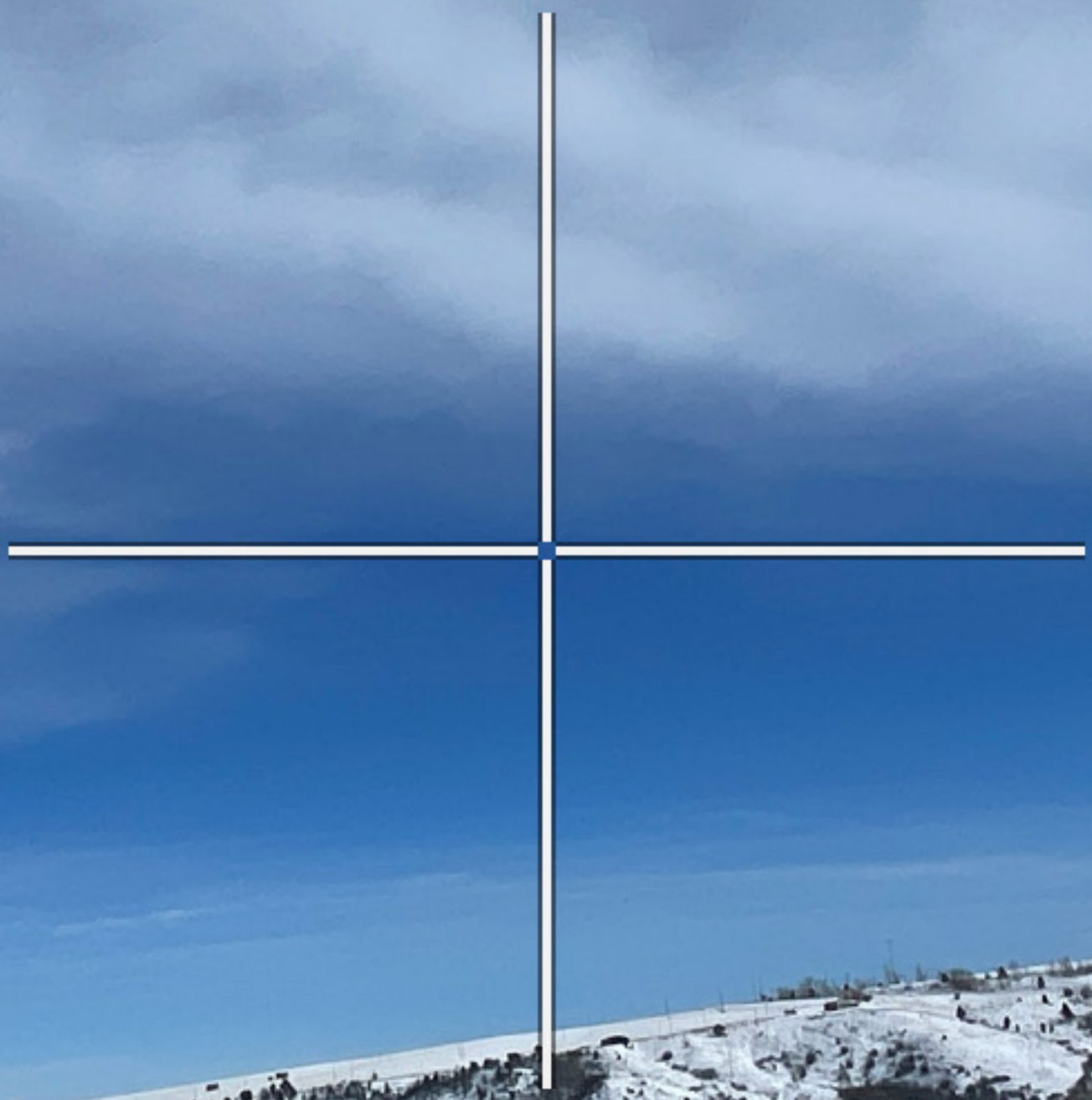
LOG



-06.0°



+10.5°



▶ SHOW EXTRAS...

089° N89E 1582mils TRUE

▶ WHAT'S NEW...

ZERO

A-B

CAL



COLOR

0.5 X

📷 S

PREFS

+045.180356° / -109.259128° ↑ 5773ft

MAIL

MAP

02/28/24

◀N▶

12:05:44

LOG



-01.0°



+10.0°



▶ SHOW EXTRAS...

178° S02E 3164mils TRUE

▶ WHAT'S NEW...

ZERO

A-B

CAL

150

S

210

COLOR

1.0X

📷 S

PREFS

+045.180370° / -109.259169° ↑ 5772ft

MAIL

MAP

02/28/24

◀N▶

12:05:00

LOG



-00.9°



+10.2°



▶ SHOW EXTRAS...

270° S90W 4800mils TRUE

▶ WHAT'S NEW...

ZERO

A-B

CAL

240

W

300

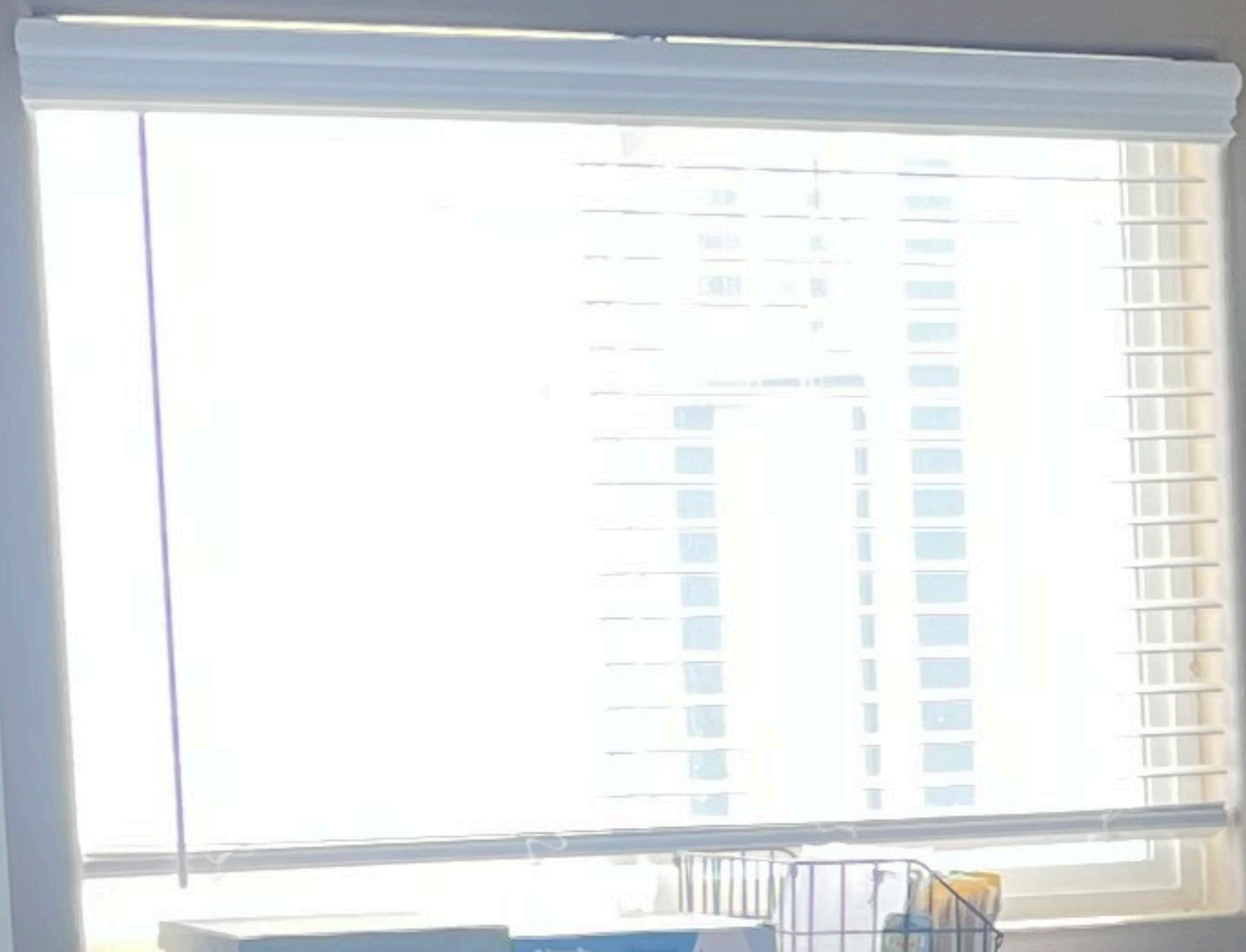
COLOR

1.0 X





12:12
44° 2:28 WED 30



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.

scott miller

Applicant Authorized Signer Name

County Commissioner

Title

DocuSigned by:
scott miller
931A04BBBA674F3...

Signature

3/19/2024

Date

Complete Grant Application package Received by:

Erin Fashoway

Erin Fashoway, MSL

Montana GIS Coordinator

Title

DocuSigned by:
Erin Fashoway
898149F544564A6...

Signature

3/19/2024

Date

Certificate Of Completion

Envelope Id: 7333B5D0F9F744B1A879D0C2285B162E	Status: Completed
Subject: Complete with DocuSign: MGIA_FY25_Application_CarbonCounty.pdf	
Source Envelope:	
Document Pages: 28	Signatures: 2
Certificate Pages: 2	Initials: 0
AutoNav: Enabled	Envelope Originator:
Enveloped Stamping: Enabled	Sean Anderson
Time Zone: (UTC-07:00) Mountain Time (US & Canada)	PO Box 201800
	Helena, MT 59620-1800
	sanderson@mt.gov
	IP Address: 161.7.39.7

Record Tracking

Status: Original 3/5/2024 11:53:27 AM	Holder: Sean Anderson sanderson@mt.gov	Location: DocuSign
Security Appliance Status: Connected	Pool: StateLocal	
Storage Appliance Status: Connected	Pool: Montana State Library	Location: DocuSign

Signer Events

scott miller
smiller@co.carbon.mt.us
County Commissioner
Security Level: Email, Account Authentication (None)

Signature

DocuSigned by:
scott miller
931A04BBBA674F3...
Signature Adoption: Pre-selected Style
Using IP Address: 72.175.50.186

Timestamp

Sent: 3/8/2024 2:39:14 PM
Resent: 3/8/2024 2:41:49 PM
Resent: 3/14/2024 2:23:53 PM
Resent: 3/15/2024 3:24:42 PM
Resent: 3/18/2024 9:59:36 AM
Resent: 3/19/2024 9:16:40 AM
Viewed: 3/19/2024 9:22:07 AM
Signed: 3/19/2024 9:22:56 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:
Erin Fashoway
898149F544564A6...
Signature Adoption: Drawn on Device
Using IP Address: 161.7.106.120

Sent: 3/19/2024 9:22:57 AM
Viewed: 3/19/2024 9:23:22 AM
Signed: 3/19/2024 9:23:29 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

Scott Miller
smiller@co.carbon.mt.gov
Security Level: Email, Account Authentication (None)

COPIED

Sent: 3/19/2024 9:23:30 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: 3/19/2024 9:23:30 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 2:39:14 PM
Envelope Updated	Security Checked	3/8/2024 2:41:48 PM
Certified Delivered	Security Checked	3/19/2024 9:23:22 AM
Signing Complete	Security Checked	3/19/2024 9:23:29 AM
Completed	Security Checked	3/19/2024 9:23:30 AM

Payment Events	Status	Timestamps
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