

MONTANA GEOSPATIAL
INFORMATION ACT (MGIA) GRANT
APPLICATION

STATE FISCAL
YEARS 2027-2028
JULY 1, 2026 – JUNE 30, 2028

Enhancement of Geodetic Control for Carbon County



SECTION 1 – ORGANIZATION, PARTNER, AND PROPOSAL INFORMATION

Primary Applicant Contact Information <i>(Please fill this section out in its entirety)</i>	
Name of Agency/Entity:	Carbon County
Department:	GIS & Addressing
Street:	10 Oakes Ave S
City:	Red Lodge
County:	Carbon
State:	MT
Zip Code:	59068
Project Manager Contact Information:	
Name:	Patrick Benson
Title:	GIS Coordinator
Email Address:	pbenson@carbonmt.gov
Phone Number:	406-445-7271
Secondary Project Manager Contact Information	
Name:	Tom Kohley
Title:	Fire Warden
Email Address	tkohley@carbonmt.gov
Phone Number:	406-445-7270
Authorized Signer Contact Information	
Name	Angela Newell
Title	Administrator Officer
Email Address	anewell@carbonmt.gov
Phone Number	406-445-7252
Funding Partners: N/A	

Proposal Information	
Date Submitted:	February 25 th , 2026
Identified Grant Priority: <i>*See the Montana Geospatial Info Plan for information on priorities.</i>	This project supports Priority 3.5 by advancing implementation of MSDI Cadastral Framework data through Carbon County's contribution of enhanced geodetic control to statewide systems. The project also aligns with Priority 3.3 through ongoing consultation and coordination with Montana State Library MSDI Cadastral Theme Leads.
Proposal Prepared By:	Patrick Benson
Short Title of Proposal:	Enhancement of Geodetic Control in Carbon County
Executive Summary	
<p>This project establishes high-accuracy GNSS positions for priority Public Land Survey System (PLSS) corners to correct positional errors in Carbon County's digital landscape. This work will support Carbon County's efforts to build authoritative, spatially precise datasets by replacing legacy PLSS coordinates with surveyed ground truth. Currently, over 24% of the county's control points exhibit shifts of 50 to 300 feet, creating misalignment between the Montana Spatial Data Infrastructure (MSDI) Cadastral Theme and physical reality.</p> <p>The two-year project targets a high-growth corridor in Carbon County by pinning the PLSS grid to survey-grade coordinates. This work will provide the stability required for equitable tax assessments, NextGen 9-1-1 dispatch, and infrastructure design in zones impacted by Carbon County's floods of 2022. These newly surveyed points will ensure that property boundaries and infrastructure assets are represented in their true locations rather than approximate positions.</p> <p>Carbon County will utilize Montana Geospatial Information Act (MGIA) funding to contract a registered land surveyor for field data collection, while county GIS staff provides planning, quality control, and integration. All enhanced coordinates will be contributed to the Multistate Control Point Database (MCPD). This project ensures the county's spatial infrastructure is a precise, legally defensible resource for all local, state, and federal stakeholders.</p>	
MGIA Grant Funding Request and Match	
Total Requested MGIA Funds:	<u>\$60,000</u>
Total Matched Funds:	<u>\$13,859.86</u> \$1,500 Carbon County Cash and \$12,359.86 Carbon County In-Kind

SECTION 2 – PUBLIC BENEFIT

Carbon County's Highway 212 corridor from Red Lodge to Laurel serves as the county's primary growth engine and gateway to Yellowstone National Park. Population and lodging tax revenues in Red Lodge

have both increased 19% since 2020, while the 2022 flood compromised homes and traditional property boundary demarcations. Property boundaries stored in the Montana Spatial Data Infrastructure (MSDI) cadastral framework misalign with ground reality up to 300 feet across the Highway 212 corridor and western Carbon County (Figure 1). With this amount of estimated error, assessments can become inequitable, emergency responders struggle with addressing, and development decisions rest on unreliable data.

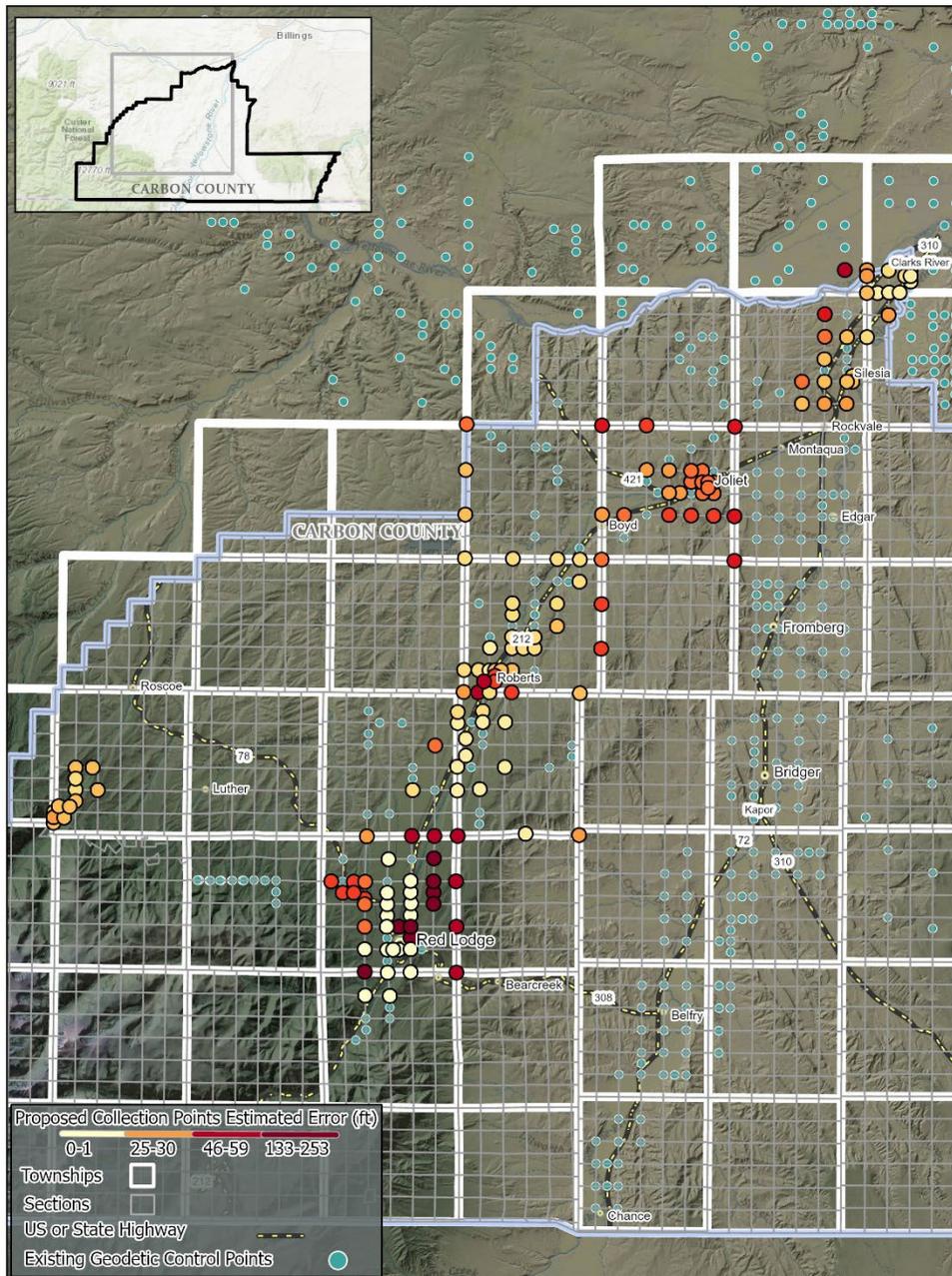


Figure 1: Proposed control points & their estimated error in Carbon County.

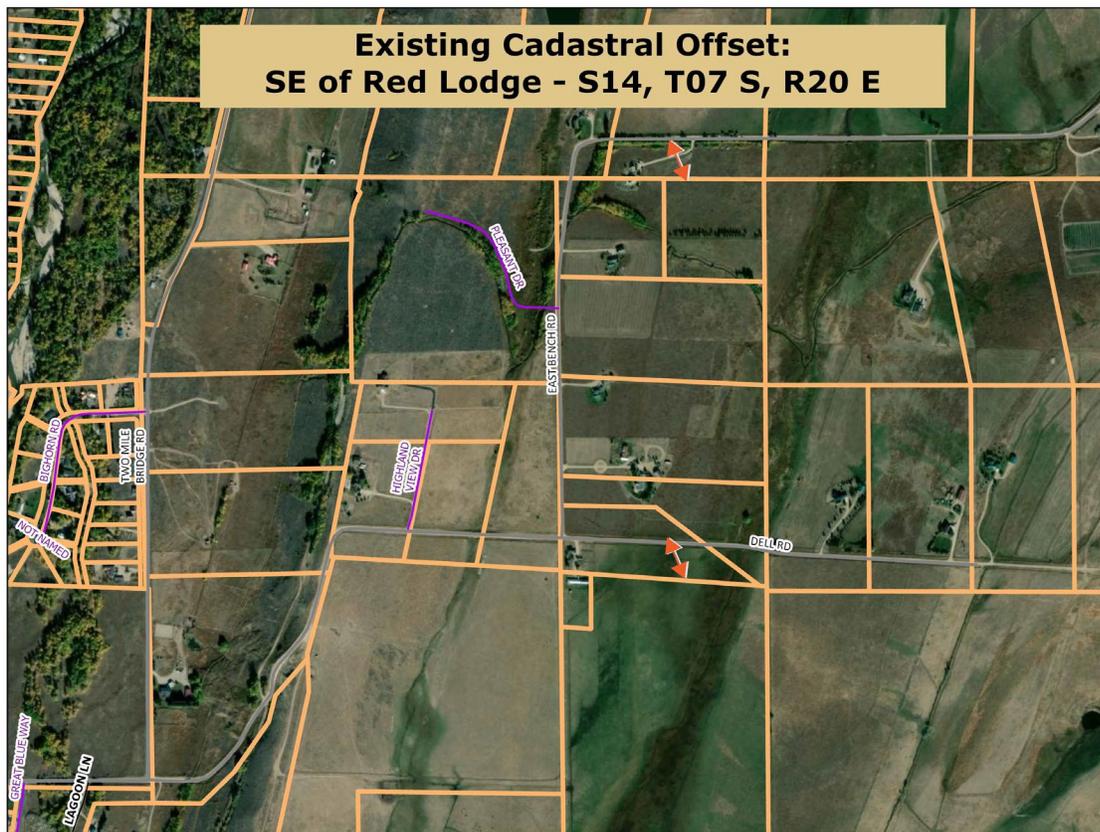


Figure 2: Current Cadastral offset compared to recent orthoimagery near Red Lodge.

Figure 2 shows property boundaries misaligned with visible ground features. This project establishes sub-meter GNSS accuracy at strategic section and township corners. Collecting high-accuracy control at these anchor points enables Montana State Library's least squares adjustment engine to propagate accuracy improvements to surrounding PLSS points, multiplying the benefit of each surveyed corner.

This work directly advances the MSDI Cadastral Framework Theme mandated by the Montana Geospatial Information Act. Enhanced geodetic control propagates accuracy gains across MSDI orthoimagery, hypsography, and boundaries layers. Surveyed corners submitted to the Multistate Control Point Database become immediately available to private surveyors, Montana Department of Revenue, Montana Department of Transportation, U.S. Forest Service, and all MSDI data users statewide.

SECTION 3 – PROJECT MANAGEMENT & ORGANIZATIONAL CAPABILITY

Carbon County has successfully executed four previous MLIA grants on time and within budget, including the 2014 Geodetic Control Enhancement grant that delivered 200 PLSS corners to the Montana State Library with sub-meter accuracy.

PRIMARY PROJECT MANAGER - PATRICK BENSON, GIS COORDINATOR

Mr. Benson holds a Master of Science in Geography and brings four years of GIS experience specializing in spatial data QA/QC. His background includes two years as a Research Assistant with the U.S. Forest Service and University of Montana managing federal grant reporting, plus five years as a USFS Forestry Technician developing field data collection expertise. He will develop the scope of work with the Montana State Library, produce field-ready maps, coordinate landowner access, provide on-site field support (one week per field season), conduct QA/QC review, and manage data submission to MCPD and corner record filing.

SECONDARY PROJECT MANAGER - TOM KOHLEY, FIRE WARDEN

Mr. Kohley provides veteran oversight with 30 years of GIS experience, having successfully managed Carbon County's four previous MLIA grants plus Emergency Management Performance Grant (5 years), State Homeland Security Grant (2 years), Volunteer Firefighters Award grant (7 years), and Recreational Trails Program (3 years). He will provide strategic guidance on contractor procurement, quality review, and cadastral framework integration.

GRANT ADMINISTRATOR - ANGELA NEWELL, ADMINISTRATIVE ASSISTANT TO COMMISSIONERS

Mrs. Newell has served as Administrative Assistant to the Carbon County Commissioners for over 10 years, successfully administering Carbon County's four previous MLIA grants plus CTEP, TSEP, RTP, and FEMA grants. She will handle budget integration, reimbursement documentation, and grant closeout.

CONSULTANT MANAGEMENT

The county will contract with a Montana-registered land surveyor through competitive bidding. The Project Manager will provide prioritized corner lists, research materials, field-ready maps, and logistical coordination. Progress monitoring includes field season check-ins and final certification of sub-meter accuracy. The two-year timeline allows flexibility for weather delays and seasonal access limitations.

REPORTING AND INVOICING

The Grant Administrator will submit semi-annual progress reports with technical content from the Project Manager. Reimbursement requests will be submitted promptly upon contractor invoice receipt and

milestone completion. Final closeout will include comprehensive documentation of surveyed corners, filed records, MCPD submissions, and lessons learned.

SECTION 4 – SCOPE OF WORK (SOW)

OVERALL PROJECT GOAL

Enhance geodetic control along the Highway 212 corridor and western Carbon County by replacing legacy PLSS coordinates with sub-meter GNSS positions, supporting growth, flood recovery, and cadastral framework improvement.

OBJECTIVE 1: FINALIZE SOW AND PRIORITIZE PLSS CORNERS

By October 31, 2026, Carbon County will finalize the project SOW by coordinating with Montana State Library and developing a prioritization scheme for corner selection.

TASK 1.1: COORDINATE WITH MONTANA STATE LIBRARY MSDI THEME LEADS

(Completion Date: August 31, 2026)

Project Manager will meet with Montana State Library (MSL) MSDI Cadastral Theme Leads to:

- Review proposed project area (Township 7S Range 20E, Township 6S Range 18E, Township 5S Range 21E, Township 4S, Range 22E)
- Discuss acceptance criteria for auxiliary coordinates from contractor's previous work
- Discuss corner prioritization methodology
- Confirm MCPD submission requirements and formats

Deliverables:

- Meeting notes documenting MSL coordination and approval

TASK 1.2: DEVELOP CORNER PRIORITIZATION SCHEME

(Completion Date: October 31, 2026)

Project Manager will work collaboratively with Montana State Library MSDI Cadastral Theme Leads to finalize PLSS corner prioritization based on:

- **Corner type** (prioritize township and section corners as network anchors; quarter corners near town centers and active development only)
- **Known cadastral offsets** (areas where visual inspection confirms misalignment with orthoimagery)
- **Community need** (proximity to Highway 212 corridor growth areas, flood recovery zones, municipal boundaries)

- **Geographic distribution** (balanced coverage from Red Lodge to Laurel, plus western county offset area)
- **Proximity to public roads** (accessibility for field work)
- **Existing survey status** (monument condition and documentation)

Analysis will focus on strategic anchor points throughout the Highway 212 corridor: Township 7S Range 20E (Red Lodge area), Township 5S Range 21E (Roberts area), Township 4S Range 22E (Joliet area), and Township 6S Range 18E (western Carbon County). Township and section corners will be prioritized as geodetic control anchors that enable Montana State Library's least squares adjustment to improve accuracy for surrounding points. Final corner count will be determined based on contractor bid pricing and available budget.

Deliverables:

- Prioritized list of PLSS corners ranked by criteria
- Maps showing priority corners in project area
- Final scope of work document specifying target corner count

OBJECTIVE 2: CONTRACT WITH REGISTERED LAND SURVEYOR

By December 31, 2026, Carbon County will procure a Montana-registered land surveyor through competitive bidding to collect GNSS coordinates on prioritized PLSS corners (Task 1.2).

TASK 2.1: DEVELOP AND ADVERTISE INVITATION TO BID

(Completion Date: November 15, 2026)

County will develop an Invitation to Bid (ITB) specifying:

- Accuracy requirements (sub-meter GNSS using RTK or post-processed methods)
- Target corner count (to be finalized per Objective 1)
- Field season timeline (Spring-Fall 2027 and 2028, weather dependent)
- MCPD metadata and formatting requirements
- Corner recordation requirements per Montana State Law 70-22
- Deliverable specifications

ITB will be advertised per Carbon County procurement policies.

Deliverables:

- Invitation to Bid document
- Proof of public advertisement

TASK 2.2: REVIEW BIDS AND SELECT CONTRACTOR

(Completion Date: December 31, 2026)

County will review bids, conduct contractor interviews if necessary, and select surveyor based on:

- Cost per corner

- Demonstrated GNSS accuracy capabilities
- Experience with PLSS surveying and MCPD submissions
- Availability for 2027-2028 field seasons
- Understanding of project area conditions

Grant Administrator will coordinate contract execution and integrate grant budget into county financial systems and establish invoice processing procedures.

Deliverables:

- Bid evaluation summary
- Signed contract with registered land surveying firm

OBJECTIVE 3: RESEARCH AND PREPARE FOR FIELD WORK

By May 31, 2027, County and contractor will complete all pre-field preparation including corner record research, field map production, landowner coordination planning, and data collection strategy.

TASK 3.1: RESEARCH SURVEY DOCUMENTS

(Completion Date: March 31, 2027)

Contractor will research existing survey documents for prioritized corners:

- Corner records filed with Carbon County Clerk & Recorder
- Historical plats and surveys
- Existing MCPD entries
- Previous surveyor notes and monumentation records
- **Contractor's own archive of previously collected PLSS coordinates not yet submitted to MCPD**

Contractor will provide inventory of any existing coordinates with metadata (collection method, accuracy, dates) to determine eligibility for MCPD submission as auxiliary points.

Deliverables:

- Survey research summary with contractor coordinate inventory and monument assessment

TASK 3.2: PRODUCE FIELD-READY MAPS

(Completion Date: April 30, 2027)

Project Manager will produce comprehensive field maps for collection area containing:

- Prioritized PLSS corners (differentiated by existing record status)
- Current PLSS framework layer showing positional errors
- Orthoimagery (most recent available)
- Land ownership (for landowner contact identification)
- Highway 212, Highway 78, and county road network

- Water features and topography
- Property access routes

Maps will be provided in digital (PDF/ geodatabase) and printed formats.

Deliverables:

- Field-ready maps and geodatabase for contractor

TASK 3.3: DEVELOP DATA COLLECTION PLAN

(Completion Date: May 15, 2027)

Contractor will develop detailed data collection plan based on:

- Corner prioritization scheme (Task 1.2)
- Survey document research (Task 3.1)
- Field conditions and seasonal access
- Monument searchability estimates
- GNSS equipment capabilities and accuracy requirements
- Weather contingency planning

Plan will establish efficient field routes, time estimates per corner, and protocols for difficult-to-locate monuments.

Deliverables:

- Written data collection plan with field routes, schedules, and quality control procedures

TASK 3.4: PREPARE LANDOWNER COORDINATION MATERIALS

(Completion Date: May 31, 2027)

Project Manager will prepare landowner communication materials:

- Letter of introduction explaining project purpose and public benefit
- Contact information for County GIS Coordinator and contractor
- Explanation of property access needs and timing
- Educational materials on PLSS system and geodetic control importance

County GIS Coordinator will identify property owners along data collection routes for advance notification.

Deliverables:

- Landowner introduction letter template
- Property owner contact list for project area

TASK 3.5: PROVIDE COUNTY CORNER RECORDS TO MONTANA STATE LIBRARY

(Completion Date: May 31, 2027)

Project Manager will work with the Clerk & Recorder to compile and provide Montana State Library access to Carbon County's digitized corner records database. These records will serve as supplemental control for MSL's statewide cadastral adjustment process.

County will:

- Inventory all digitized corner records maintained by Clerk & Recorder
- Organize records in format compatible with MSL requirements
- Provide digital access to MSL (file transfer, database access, or web service)
- Document record sources, dates, and any known quality issues

Deliverables:

- Digital corner records and associated metadata provided to Montana State Library

OBJECTIVE 4: COLLECT COORDINATES ON PLSS PRIORITIZED CORNERS

By May 15, 2028, contractor will collect sub-meter GNSS coordinates on approximately 100 prioritized PLSS corners over two field seasons (2027 and early 2028).

TASK 4.1: FIELD DATA COLLECTION - YEAR 1 (2027 FIELD SEASON)

(Completion Date: October 31, 2027)

Contractor will collect GNSS coordinates during 2027 field season (approximately April-October, weather dependent). Coordinates will be collected adhering to established survey control standards and guidelines achieving certifiable accuracy of ≤ 0.025 m for project control and ≤ 0.050 m for PLSS corner measurement.

Project Manager will provide field support including landowner coordination, logistics assistance, and real-time problem-solving for access or monument location challenges.

For each corner:

- Locate and verify monument (or evidence of monument location)
- Collect GNSS position meeting accuracy requirements
- Photograph monument and surrounding area
- Document monument condition and evidence
- Record metadata per MCPD specifications

Deliverables:

- GNSS coordinates with metadata for Year 1 corners
- Field photographs and monument condition documentation

- Progress report summarizing Year 1 accomplishments and challenges

TASK 4.2: MID-PROJECT REVIEW AND YEAR 2 PLANNING

(Completion Date: December 31, 2027)

County and contractor will review Year 1 results and finalize limited Year 2 strategy:

- Assess corners completed versus planned
- Evaluate accuracy achieved and time per corner
- Identify any corners requiring re-measurement or additional effort
- Finalize short list of remaining high-priority corners for brief April-May 2028 collection window

Deliverables:

- Mid-project review summary
- Final priority list for limited Year 2 field season (maximum corners achievable in 6-week window)

TASK 4.3: FIELD DATA COLLECTION - YEAR 2 (2028 FIELD SEASON)

(Completion Date: May 15, 2028)

Contractor will complete remaining corners during early 2028 field season (approximately April-May) following same protocols as Year 1. Majority of corners will be collected during 2027 field season, with 2028 work focused on any outstanding high-priority corners or re-measurements. Project Manager will continue providing field support.

Focus will include:

- Completing corners from original priority list
- Addressing any Year 1 corners requiring re-measurement
- Collecting additional corners if time and budget permit

Deliverables:

- GNSS coordinates with metadata for Year 2 corners
- Field photographs and monument condition documentation
- Certification by land surveyor that all coordinates meet accuracy requirements

OBJECTIVE 5: SUBMIT COLLECTED DATA AND FILE CORNER RECORDS

By June 30, 2028, County and contractor will submit all collected coordinates to the Multistate Control Point Database and file corner recordation forms with the Carbon County Clerk & Recorder. Grant Administrator will submit final financial reports and closeout documentation to Montana State Library.

TASK 5.1: PREPARE AND SUBMIT COORDINATES TO MCPD

(Completion Date: May 31, 2028)

Project Manager and contractor will collaborate to:

- Enter all collected coordinates and metadata into MCPD input spreadsheet
- Include contractor's existing coordinates (from Task 3.1) that meet MSL acceptance criteria as auxiliary points
- Verify data formatting meets MCPD specifications
- Conduct quality control review of all entries
- Submit complete dataset to Montana State Library

Deliverables:

- Completed MCPD input spreadsheet with all coordinates and metadata
- Submission confirmation from Montana State Library
- Documentation of auxiliary coordinates included from contractor's previous work

TASK 5.2: FILE CORNER RECORDATION FORMS

(Completion Date: June 30, 2028)

Contractor will prepare corner recordation forms per Montana State Law 70-22 for all newly surveyed corners and deliver to Carbon County Clerk & Recorder for filing. Forms will include:

- Monument description and condition
- GNSS coordinates and accuracy certification
- Field notes and photographs
- Survey methodology documentation

County Clerk & Recorder will file all forms for permanent public record access.

Deliverables:

- Corner recordation forms filed with Carbon County Clerk & Recorder
- Filing receipt documentation

TASK 5.3: FINAL PROJECT REPORT / PROJECT CLOSEOUT

(Completion Date: June 30, 2028)

County will prepare comprehensive final report documenting:

- Total corners surveyed and accuracy achieved
- Comparison of original CadNSDI positional errors versus surveyed coordinate accuracy
- Maps showing surveyed corner locations and error reduction
- Lessons learned and recommendations for future geodetic control projects
- Budget summary and cost per corner analysis
- Benefits realized for Highway 212 corridor

Grant administrator will complete financial closeout including final budget reconciliation and submission of all required closeout documentation to Montana State Library.

Deliverables:

- Final project report with maps and analysis
- Final financial report and grant closeout documentation

PROJECT SCHEDULE SUMMARY

YEAR 1 (JULY 2026 - JUNE 2027)

- July-October 2026: Finalize scope, coordinate with MSL, prioritize corners
- November-December 2026: Procure surveyor
- January-April 2027: Pre-field preparation

YEAR 2 (JULY 2027 - JUNE 2028)

- April-October 2027: Year 1 field data collection
- November-December 2027: Mid-project review
- April-May 2028: Year 2 field data collection (limited window)
- November 2027-June 2028: Data submission, corner recordation, final reporting

NOTES ON FLEXIBILITY

Field data collection is weather-dependent and may shift within planned windows based on seasonal conditions. The project timeline prioritizes the 2027 field season (April-October) for the majority of data collection, with the 2028 season limited to a brief window (April-May) to allow adequate time for data processing, MCPD submission, corner recordation, and final reporting before the June 30, 2028 grant deadline.

Final corner count will be determined based on contractor bid pricing and available budget, with priority given to corners with highest positional errors along Highway 212, Highway 78, and county roads serving growing areas.

Total Deliverables: 29 across 5 objectives

SECTION 5 – BUDGET JUSTIFICATION AND BUDGET TABLE

The total budget of \$73,859.86 funds professional land surveying services to establish sub-meter accurate PLSS corner positions serving Carbon County indefinitely without ongoing maintenance costs.

Budget Development Assumptions:

Cost estimates are based on Carbon County's 2014 MLIA grant (\$300 per point) adjusted for current market conditions. Contact in February of 2026 with a Montana-registered land surveyor yielded an estimate of \$600 per point due to inflation, increased equipment costs, and differing MCPD submission requirements. The budget allocates \$59,200 for consultant services targeting approximately 100 points, with final count dependent on competitive bid results (Task 2.2). Personnel rates reflect county salary schedules including fringe benefits: GIS Coordinator at \$47.86/hour, administrative staff at \$43.22-56.67/hour. Travel costs based on federal mileage rates (\$0.67/mile) and estimated state per diem for Helena lodging (\$150/night), and meals (\$70/day).

Funding Structure:

MGIA grant funds (\$60,000.00, 81.2%): Mandatory grantee travel (\$800) and consultant services (\$59,200) for research, planning, field data collection (2027 primary season, limited 2028 window), and corner recordation.

Carbon County match (\$13,859.86, 18.8%): Cash (\$1,500 from MLIA fund derived from recordation fees) and in-kind personnel (\$12,359.86).

In-Kind Personnel:

Project Manager (258 hours, \$12,348.28): MSL coordination, spatial analysis, field maps, field support both seasons, MCPD submission, final reporting. Field participation leverages local knowledge to reduce consultant costs.

Grant Administrator (14 hours, \$793.38): Budget integration, invoice processing, closeout documentation.

Clerk & Recorder (16 hours, \$691.52): Digitized corner records compilation for MSL supplemental control.

Consultant Services (estimated):

- Task 3.1: Survey research (\$5,000)
- Task 3.3: Data collection plan (\$2,000)
- Task 4.1: Year 1 field collection (\$35,000 = \$33,500 MGIA + \$1,500 county cash)
- Task 4.3: Year 2 limited field season (\$10,000)

- Task 5.1: MCPD Submission (\$6,500)
- Task 5.2: Corner recordation forms (\$2,200)

Consultant selected through competitive bidding per county procurement policies. All payments contingent on verified deliverables.

Carbon County		MGIA GRANT DETAILED BUDGET TABLE			
Tasks	Category Type	Funding Source	Hours	Rate	Cost
Grantee Kickoff Meeting - Helena (Project Manager)	Travel	MGIA Grant Funds			\$1,500.00
Task 1.1 - MSL Coordination (Project Manager)	Personnel (incl. fringe benefits)	Carbon County In-Kind	8	\$47.86	\$382.88
Task 1.2 - Corner Prioritization Analysis (Project Manager)	Personnel (incl. fringe benefits)	Carbon County In-Kind	8	\$47.86	\$382.88
Task 2.1 - Develop ITB (Project Manager)	Personnel (incl. fringe benefits)	Carbon County In-Kind	16	\$47.86	\$765.76
Task 2.2 - Review Bids (Project Manager)	Personnel (incl. fringe benefits)	Carbon County In-Kind	8	\$47.86	\$382.88
Task 2.2 - Contract Execution and Budget Integration (Grant Administrator)	Personnel (incl. fringe benefits)	Carbon County In-Kind	8	\$56.67	\$453.36
Task 3.1 - Survey Document Research (Contractor)	Contractual	MGIA Grant Funds			\$5,000.00
Task 3.2 - Field Maps Production (Project Manager)	Personnel (incl. fringe benefits)	Carbon County In-Kind	24	\$47.86	\$1,148.64
Task 3.3 - Data Collection Plan (Contractor)	Contractual	MGIA Grant Funds			\$2,000.00
Task 3.4 - Landowner Materials (Project Manager)	Personnel (incl. fringe benefits)	Carbon County In-Kind	8	\$47.86	\$382.88
Task 3.5 - Provide County Corner Records to MSL (Project Manager)	Personnel (incl. fringe benefits)	Carbon County In-Kind	16	\$47.86	\$765.76
Task 3.5 - Provide County Corner Records to MSL (Clerk & Recorder)	Personnel (incl. fringe benefits)	Carbon County In-Kind	16	\$43.22	\$691.52
Task 4.1 - Field Data Collection Year 1 (Contractor)	Contractual	MGIA Grant Funds			\$33,500.00
Task 4.1 - Field Data Collection Year 1 (Contractor)	Contractual	Carbon County Cash			\$1,500.00
Task 4.1 - Field Support Year 1 (Project Manager)	Personnel (incl. fringe benefits)	Carbon County In-Kind	40	\$47.86	\$1,914.40
Task 4.2 - Mid-Project Review (Project Manager)	Personnel (incl. fringe benefits)	Carbon County In-Kind	8	\$47.86	\$382.88
Task 4.3 - Field Data Collection Year 2 (Contractor)	Contractual	MGIA Grant Funds			\$10,000.00
Task 4.3 - Field Support Year 2 (Project Manager)	Personnel (incl. fringe benefits)	Carbon County In-Kind	20	\$47.86	\$957.20
Task 5.1 - MCPD Submission (Project Manager)	Personnel (incl. fringe benefits)	Carbon County In-Kind	24	\$47.86	\$1,148.64
Task 5.2 - Corner Recordation Forms (Contractor)	Contractual	MGIA Grant Funds			\$8,000.00
Task 5.2 - Corner Recordation Forms (Clerk & Recorder)	Personnel (incl. fringe benefits)	Carbon County In-Kind	8	\$43.22	\$345.76
Task 5.3 - Final Project Report (Project Manager)	Personnel (incl. fringe benefits)	Carbon County In-Kind	40	\$47.86	\$1,914.40
Task 5.3 - Grant Close-out (Grant Administrator)	Personnel (incl. fringe benefits)	Carbon County In-Kind	6	\$56.67	\$340.02
Totals:			258		\$ 73,859.86
					MGIA Grant Funds:
					\$ 60,000.00
					Carbon County Cash:
					\$ 1,500.00
					Carbon County In-Kind
					\$12,359.86

SECTION 6 – PROJECT SUSTAINABILITY

Accurate boundaries don't depreciate. Once a corner is surveyed to sub-meter accuracy and entered into the Multistate Control Point Database, it serves Carbon County indefinitely. Every future surveyor, title examiner, and infrastructure planner builds on that precision without re-surveying the same monument. The work compounds. The Montana State Library maintains MCPD and integrates coordinates into the Montana State Library's CadNSDI products as standard practice. The County Clerk & Recorder archives corner records in perpetuity. Carbon County commits no new staff or specialized systems. Updated corners flow into existing cadastral layers, then propagate to voting precincts, fire districts, and county commissioner boundaries during routine GIS updates.

The Highway 212 corridor will continue growing whether or not these corners are surveyed. The difference is whether that growth happens on a foundation of positional errors or survey-grade accuracy. Property disputes, infrastructure misalignment, and emergency response delays don't resolve themselves- they accumulate costs over time. This project works to prevent those costs by establishing a reliable cadastral framework once, used by the community indefinitely. County in-kind / general funds provide sustainable support for ongoing geodetic control improvements. The county will apply lessons learned from this project to address remaining high-error corridors as resources permit. Field participation during the two-year timeline ensures Carbon County can independently assess future geodetic control needs and coordinate effectively with Montana's surveying community.

SECTION 7 - RENEWABLE GRANT ACCOUNTABILITY

Carbon County has not been awarded MGIA grants within the past five years requiring accountability reporting.

SECTION 8 – MGIA PROPOSED SURVEY CONTROL POINT COLLECTION

FY2027 MGIA Grant Application - Proposed Survey Control Point Collection*							
Organization:		Carbon County					
Project Name:		Cadastral Improvement FY27 MGIA Grant					
Identified Project Manager:		Patrick Benson, GIS Coordinator					
Number	Township	Range	Section	Quarter	Corner	Priority	Approval Status
	(This is where the grantee will identify the corners for collection)					(Priority Corner vs. Alternate Corner) Grantee /MSL Action	(Approved or Not Approved) MSL Action
1	7S	20E	33	SW	Section	First Priority	
2	7S	20E	33	SE	Section	First Priority	
3	7S	20E	34	SE	Section	First Priority	
4	7S	20E	36	SE	Township	First Priority	
5	7S	20E	27	SE	Section	First Priority	
6	7S	20E	27	S	1/4	First Priority	
7	7S	20E	27	SW	Section	First Priority	
8	7S	20E	27	E	1/4	First Priority	
9	7S	20E	27	NE	Section	First Priority	
10	7S	20E	27	N	1/4	First Priority	
11	7S	20E	27	NW	Section	First Priority	
12	7S	20E	28	SW	Section	First Priority	
13	7S	20E	28	NW	Section	First Priority	
14	7S	20E	25	NE	Section	First Priority	
15	7S	20E	13	NE	Section	First Priority	
16	7S	20E	1	NE	Township	First Priority	
17	7S	20E	17	NE	Section	First Priority	
18	7S	20E	16	SW	Section	First Priority	
19	7S	20E	22	NW	Section	First Priority	
20	7S	20E	15	SE	Section	First Priority	
21	7S	20E	11	NE	Section	First Priority	
22	5S	21E	31	NW	Section	First Priority	
23	5S	21E	32	NW	Section	First Priority	
24	5S	21E	32	NE	Section	First Priority	
25	5S	21E	32	W	1/16	First Priority	
26	5S	21E	32	NW	1/16	First Priority	
27	5S	21E	32	C-W	1/16	First Priority	
28	5S	21E	32	N	1/16	First Priority	
29	5S	21E	31	N	1/4	First Priority	
30	5S	21E	31	SW	Township	First Priority	
31	5S	21E	25	NE	Section	First Priority	
32	5S	21E	28	NE	Section	First Priority	
33	5S	21E	13	NE	Section	First Priority	
34	4S	22E	31	SW	Township	First Priority	
35	4S	21E	31	SW	Township	First Priority	
36	4S	21E	33	SW	Section	First Priority	
37	4S	22E	14	C-E	1/16	First Priority	

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38	4S	22E	14	S	1/4	First Priority	
39	4S	22E	14	SE	1/16	First Priority	
40	4S	22E	14	SE	Section	First Priority	
41	4S	22E	14	NW	Section	First Priority	
42	4S	22E	14	E	1/4	First Priority	
43	3S	23E	31	SW	Township	First Priority	
44	3S	22E	31	SW	Township	First Priority	
45	4S	22E	36	SE	Township	First Priority	
46	4S	22E	24	SE	Section	First Priority	
47	2S	24E	32	NE	Section	First Priority	
48	2S	24E	32	E	1/4	First Priority	
49	2S	24E	32	SW	Section	First Priority	
50	2S	24E	31	SW	Township	First Priority	
51	2S	24E	32	NW	Section	First Priority	
52	2S	24E	32	S	1/4	First Priority	
53	2S	24E	5	SW	Section	First Priority	
54	3S	23E	24	SW	Section	Second Priority	
55	3S	23E	24	W	1/16	Second Priority	
56	3S	23E	24	SW	1/16	Second Priority	
57	3S	23E	26	NW	Section	Second Priority	
58	7S	20E	4	NW	Section	Second Priority	
59	5S	21E	33	SW	Section	Second Priority	
60	6S	21E	1	NE	Closing Township	Second Priority	
61	6S	21E	20	NE	Section	Second Priority	
62	6S	21E	36	SE	Closing Township	Second Priority	
63	6S	21E	33	SE	Section	Second Priority	
64	4S	22E	14	W	1/4	Second Priority	
65	4S	22E	15	SW	Section	Second Priority	
66	4S	22E	19	SW	Section	Second Priority	
67	4S	22E	22	SE	Section	Second Priority	
68	3S	23E	15	SW	Section	Second Priority	
69	6S	18E	19	NW	Section	Second Priority	
70	6S	18E	30	NE	Section	Second Priority	
71	6S	18E	30	E	1/4	Second Priority	
72	6S	18E	30	SE	1/16	Second Priority	
73	6S	18E	30	SW	1/16	Second Priority	
74	6S	18E	20	E	1/16	Second Priority	
75	6S	18E	19	NE	Section	Second Priority	
76	6S	18E	31	NW	1/16	Second Priority	
77	7S	20E	17	W	1/4	Second Priority	
78	7S	20E	16	E	1/4	Second Priority	
79	8S	20E	4	SW	Section	Second Priority	
80	8S	20E	4	SE	Section	Second Priority	
81	7S	20E	22	E	1/4	Second Priority	
82	7S	20E	22	W	1/4	Second Priority	
83	7S	20E	3	SW	Section	Second Priority	
84	7S	20E	14	SE	Section	Second Priority	
85	7S	20E	3	NE	Section	Second Priority	
86	6S	20E	24	SE	Closing Section	Second Priority	
87	5S	21E	29	NW	Section	Second Priority	
88	5S	21E	16	NW	Section	Second Priority	
89	4S	21E	34	SE	Section	Second Priority	
90	4S	22E	16	NW	Section	Second Priority	
91	4S	22E	4	NW	Section	Second Priority	
92	3S	23E	27	SW	Section	Second Priority	
93	3S	23E	11	SW	Section	Second Priority	
94	4S	22E	14	Center	1/4	Second Priority	
95	3S	23E	25	SW	Section	Second Priority	
96	7S	20E	15	NE	Section	Second Priority	
97	7S	20E	14	NE	Section	Second Priority	
98	7S	20E	16	S	1/16	Second Priority	
99	7S	20E	15	Center	1/4	Second Priority	
100	7S	20E	17	N	1/4	Second Priority	

DRAFT

FY2027 MGIA Grant Application - Proposed Survey Control Point Collection*							
Organization: Carbon County							
Project Name: Cadastral Improvement FY27 MGIA Grant							
Identified Project Manager: Patrick Benson, GIS Coordinator							
Number	Township	Range	Section	Quarter	Corner	Priority	
(This is where the grantee will identify the corners for collection)						(Priority Corner vs. Alternate Corner) Grantee /MSL Action	Approval Status (Approved or Not Approved) MSL Action
1	75	20E	33	SW	Section	First Priority	
2	75	20E	33	SE	Section	First Priority	
3	75	20E	34	SE	Section	First Priority	
4	75	20E	36	SE	Township	First Priority	
5	75	20E	27	SE	Section	First Priority	
6	75	20E	27	S	3/4	First Priority	
7	75	20E	27	SW	Section	First Priority	
8	75	20E	27	E	1/4	First Priority	
9	75	20E	27	NE	Section	First Priority	
10	75	20E	27	N	1/4	First Priority	
11	75	20E	27	NW	Section	First Priority	
12	75	20E	28	SW	Section	First Priority	
13	75	20E	28	NW	Section	First Priority	
14	75	20E	25	NE	Section	First Priority	
15	75	20E	13	NE	Section	First Priority	
16	75	20E	1	NE	Township	First Priority	
17	75	20E	17	NE	Section	First Priority	
18	75	20E	16	SW	Section	First Priority	
19	75	20E	22	NW	Section	First Priority	
20	75	20E	15	SE	Section	First Priority	
21	75	20E	11	NE	Section	First Priority	
22	55	21E	31	NW	Section	First Priority	
23	55	21E	32	NW	Section	First Priority	
24	55	21E	32	NE	Section	First Priority	
25	55	21E	32	W	1/4	First Priority	
26	55	21E	32	NW	1/16	First Priority	
27	55	21E	32	C-W	1/16	First Priority	
28	55	21E	32	N	1/16	First Priority	
29	55	21E	31	N	3/4	First Priority	
30	55	21E	31	SW	Township	First Priority	
31	55	21E	25	NE	Section	First Priority	
32	55	21E	28	NE	Section	First Priority	
33	35	21E	14	NE	Section	First Priority	
34	35	21E	31	SW	Township	First Priority	
35	45	21E	31	SW	Township	First Priority	
36	45	21E	33	SW	Section	First Priority	
37	45	21E	14	E-E	1/16	First Priority	
38	45	22E	14	S	1/4	First Priority	
39	45	22E	14	SE	1/16	First Priority	
40	45	22E	14	SE	Section	First Priority	
41	45	22E	14	NW	Section	First Priority	
42	45	22E	14	E	3/4	First Priority	
43	35	23E	31	SW	Township	First Priority	
44	35	22E	31	SW	Township	First Priority	
45	45	22E	36	SE	Township	First Priority	
46	45	22E	24	SE	Section	First Priority	
47	25	24E	32	NE	Section	First Priority	
48	25	24E	32	E	3/4	First Priority	
49	25	24E	32	SW	Section	First Priority	
50	25	24E	31	SW	Township	First Priority	
51	25	24E	32	NW	Section	First Priority	
52	25	24E	32	S	3/4	First Priority	
53	25	24E	5	SW	Section	First Priority	
54	35	23E	24	SW	Section	Second Priority	
55	35	23E	24	W	1/16	Second Priority	
56	35	23E	24	SW	1/16	Second Priority	
57	35	23E	26	NW	Section	Second Priority	
58	25	23E	4	SW	Section	Second Priority	
59	65	21E	33	SW	Section	Second Priority	
60	65	21E	1	NE	Closing Township	Second Priority	
61	65	21E	20	NE	Section	Second Priority	
62	65	21E	35	SE	Closing Township	Second Priority	
63	65	21E	33	SE	Section	Second Priority	
64	65	22E	14	W	1/4	Second Priority	
65	45	22E	15	SW	Section	Second Priority	
66	45	22E	19	SW	Section	Second Priority	
67	45	22E	22	SE	Section	Second Priority	
68	35	23E	15	SW	Section	Second Priority	
69	65	18E	19	NW	Section	Second Priority	
70	65	18E	30	NE	Section	Second Priority	
71	65	18E	30	E	3/4	Second Priority	
72	65	18E	30	SE	1/16	Second Priority	
73	65	18E	30	SW	1/16	Second Priority	
74	65	18E	20	E	1/16	Second Priority	
75	65	18E	19	NE	Section	Second Priority	
76	65	18E	31	NW	1/16	Second Priority	
77	75	20E	17	W	1/4	Second Priority	
78	75	20E	16	E	3/4	Second Priority	
79	85	20E	4	SW	Section	Second Priority	
80	85	20E	4	SE	Section	Second Priority	
81	75	20E	22	E	3/4	Second Priority	
82	75	20E	22	W	3/4	Second Priority	
83	75	20E	1	SW	Section	Second Priority	
84	75	20E	15	SE	Section	Second Priority	
85	75	20E	3	NE	Section	Second Priority	
86	65	20E	24	SE	Closing Township	Second Priority	
87	65	21E	29	NW	Section	Second Priority	
88	55	21E	16	NW	Section	Second Priority	
89	45	21E	34	SE	Section	Second Priority	
90	45	22E	16	NW	Section	Second Priority	
91	45	22E	4	NW	Section	Second Priority	
92	45	23E	77	SW	Section	Second Priority	
93	35	23E	11	SW	Section	Second Priority	
94	45	22E	14	Center	1/4	Second Priority	
95	15	23E	25	SW	Section	Second Priority	
96	75	20E	15	NE	Section	Second Priority	
97	75	20E	14	NE	Section	Second Priority	
98	75	20E	15	S	1/16	Second Priority	
99	75	20E	15	Center	1/4	Second Priority	
100	75	20E	17	N	3/4	Second Priority	

*Proposed PLSS Control - This form is only required for applicants proposing PLSS/survey control projects. Those applicants must complete this form with their proposed collection information and upload it with their respective grant applications in the "Final Submission" folder.

Please do your best to fill this form out, MSL will work internally to research and review points upon award and prior to executing statement of work. It is best to have more points in the proposed list than what is requested for funding. Please insert as many lines as necessary into this excel worksheet. Please do not enter any information in the Approval Status category. MSL will work with the approved grant project Project Manager to approve points. This points are proposed and upon further research, alternative points may be required for collection.

