MONTANA LAND INFORMATION GRANT APPLICATION

STATE FISCAL YEAR 2019

CHOUTEAU COUNTY, MT

CHOUTEAU COUNTY, MT

E-911 & GPS/GIS Project

February 15, 2018

Chouteau County Courthouse
1308 Franklin St
Fort Benton, MT 59442

APPLICATION FOR MLIA GRANT FUNDING

SECTION 1 – APPLICANT, PARTNER, AND PROPOSAL INFORMATION

Primary Applicant Contact Information	
Name of Agency/Entity:	**Chouteau County, MT**
Department:	**Chouteau County Commissioners**
Principle Individual:	**Commissioner Darren Schuster**
Street:	**1308 Franklin St**
City:	**Fort Benton**
County:	**Chouteau**
State:	**MT**
Zip Code:	**59442**
Project Manager Contact Information:	
Name:	**Debra Gessaman**
Title:	**Disaster and Emergency Services (DES) Coordinator**
Email Address:	**chouteaucountydes@gmail.com**
Phone Number:	**406-622-3027**
Fax Number:	
Secondary Contact Information:	
Name:	**Kellie Butler**
Title:	**Deputy DES/Mapping & Addressing Coordinator**
Email Address	**kelliebutler328@gmail.com**
Phone Number:	**(406) 622-3022**
MLIA Grant Funding Request & Match:	
Total Requested MLIA Funds:	**$14,995**
Total Matched Funds:	

Proposal Information	
Date Submitted:	**February 15, 2018**
Identified Grant Priority:	**Support Geographic Information Systems for Public Safety and Emergency Response**
Annual or Multi-Year Proposal:	**Multi-Year: Second of Four Year Project**
Proposal Prepared By:	**Chouteau County DES Office**
Short Title of Proposal:	**CHOUTEAU COUNTY, MT E-911 & GPS/GIS Project**

Executive Summary (*required – 250 maximum word count*):

Chouteau County (the County) understands that they will eventually need to migrate their E-911 System to the NG9-1-1 platform. The County is applying for MLIA funding to update the County's existing Enhanced 9-1-1 and GIS data to meet the NENA NG9-1-1 standards, as well as to supplement current data with additional attribution and information.

List All Past Awarded MLIA Grants:
MLIA_2018_01

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

SECTION 2 – RELEVANCE

The purpose of the MLIA program is to develop a standardized, sustainable method to collect, maintain, and disseminate information in digital formats about the natural and artificial land characteristics of Montana. Chouteau County has initially met that purpose through the implementation of their Enhanced 9-1-1 (E-911) Telephone System, which was developed between 1998 and 2001 and resulted in a healthy GIS program. To date, approximately 2,650 miles of road have been mapped and 3,500 structures mapped and addressed using the National Emergency Numbering Association's (NENA) standardized data guidelines and US Postal Service (USPS) addressing standards. The County has sustained that initial project effort by supporting an ongoing GIS data maintenance program administered through the County's Disaster and Emergency Services (DES) Office to map, address and integrate new structures and roads and to maintain the existing dataset. The need for accurate and up-to-date digital data to support efficient emergency response and disaster preparedness, as well as disaster mitigation efforts, is best supported through active and robust GIS efforts.

The MLIA's FY 2019's Land Plan Priorities under the heading "Support Geographic Information Systems for Public Safety and Emergency Response" indicates that Next Generation 9-1-1 (NG9-1-1) is an imminent concern and one that is supported by the MLIA objectives. To facilitate the eventual migration of their current E-911 System to the NG9-1-1 platform, the County will need up-to-date structure point and road centerline attribution and emergency responder jurisdictional boundaries that meet the NENA NG9-1-1 standard models. The County is applying for MLIA funding to further their efforts (started in MLIA_2018_01) to maintain the County's existing Enhanced 9-1-1 GIS data with ongoing attribution that meets the NENA NG9-1-1 standards, as well as supplement the current data with additional attribution and information.

SECTION 3 – PUBLIC BENEFIT

Chouteau County is applying for MLIA funding to supplement, upgrade and update the County's existing Enhanced 9-1-1 and GIS data to meet the NENA NG9-1-1 standards. Since most of the GPS/GIS data was collected over 15 years ago, the County is concerned that without a concerted effort to review and update their data now, the value of their GIS will keep diminishing as it ages.

The County assigns addresses for new construction – if they become aware of it. Residents needing utility or postal services are supposed to contact the County, but not every new structure is identified this way, as the County does not have a residential building permit program. Some new structures are found via State electrical permitting and phone service orders (adds, deletes and changes to landlines). The County maps the new construction it identifies through these methods using GPS field collection 2-3 times annually. Since 2010, this methodology has averaged only 15 new structures per year. Change or development is often "stumbled into" when conducting fieldwork, but certainly every road has not been driven to identify changes in structures. Annual E-911 audits are conducted by comparing phone record addresses to the GIS to ensure accuracy. The number of landlines, however, are dwindling every year, which lessens the ability to keep structure point data up-to-date. As local wireless coverage and wireless devices continually improve, residents are increasingly switching solely to wireless (and dropping their landlines). The number of wireless 9-1-1 calls is increasing dramatically, but the County does not receive any wireless account info. As a result, the GIS data attribution is aging quickly without adequate means of maintenance and updating.

To overcome the above shortfalls in capturing and maintaining up-to-date structure point data and update their overall E-911 data, the County proposes to implement a multi-pronged approach to:

A) maintain the current E-911 data (e.g. road centerlines, structure points and emergency service jurisdictions) that will be transitioned to the NENA NG9-1-1 model as part of the current project, MLIA_2018_01;

B) continue to distribute the GIS data to benefit more users, both private and public, by maintaining the ArcGIS Online account and publishing updated digital maps/data, which are accessible via web links from the County's website;

C) collect new information by conducting standardized and consistent fieldwork;

D) integrate the field data into the County's Public Alert Notification System (PANS), resulting in enhanced means to communicate with the local public in emergency situations;

E) and ultimately share the final structures points and road centerlines data with the State.

The development of improved structure point and road centerlines data from the proposed project will be coordinated with the appropriate MSDI theme stewards – and the resulting data will be shared with them as well. These initiatives will ultimately improve the County's portion of the statewide MSDI datasets for road centerlines and structure points.

SECTION 4 – PROJECT MANAGEMENT AND ORGANZIATIONAL CAPABILITY

The proposed project will be managed by the Chouteau County Disaster Emergency Service (DES) Coordinator, Debbie Gessaman. Debbie is a native of the County and a proud mother, partnering with her husband to operate their family farm. She started working in 2006 as a Deputy DES Coordinator and Assistant EMS Coordinator. Debbie has helped the County work through Presidential Disaster declarations in 1992 and 1996. During these disasters, she helped write up the Project Worksheets (PW's) for each of the roads and bridges that were damaged from flooding, including gathering all information about the work hours, equipment and supplies (e.g. taking all the timecards of the road crews, going through all the records of supplies they used, equipment that was used and how many hours for each piece of equipment, then reporting all this on the PW's). Debbie worked with the County Commissioners to close these projects and making sure they were done according to Federal Emergency Management Association (FEMA) standards. These disasters included working alongside FEMA and Emergency Relief for Federally Owned Roads (ERFO) organizations. She continues to work with State, Federal and local officials to create a disaster resilient community.

Debbie started out as a first responder and trained and certified as an Emergency Medical Technician – Basic (EMT-B) and has recently certified as an Advanced EMT (AEMT). She is the EMS Coordinator for Chouteau County and an AEMT for Memorial Ambulance Service of Fort Benton. Debbie has experience with grant management and administration for large and small projects and supervisory experience at many different levels. Each year Debbie applies for an Emergency Management Program Grant from the State of Montana. This grant is used to fund various exercises, wages for the County's mapping consultant and Deputy DES Coordinator, Developing various EOP (Emergency Operating Plans) for the county and various meetings. As the County EMS Coordinator, she has also successfully applied for and executed grants for a portable suction unit and a new 2001 ambulance (through the State DOT). Debbie is a member of the County 9-1-1 Advisory Board, as well as their Secretary/Treasurer. Regarding overall contractual and grant administration, Debbie will be supported by the 9-1-1 Advisory Board and the County Commissioners.

Kellie Butler, the County's Deputy DES and Mapping/Addressing Coordinator since 2015, is also a native of Chouteau County and takes a personal pride and interests in keeping the GIS data current and correct. As the daughter of the previous (and original) GIS mapping coordinator (who was also a former emergency dispatcher), Kellie grew up with Public Safety and through her mother, has a wealth of knowledge about the County and the development of its map data. She is responsible for working with (on the phone and in person) County landowners and residents on the assignment and input of all new structure addresses, including road naming. Kellie maintains the current GIS, including the structure points/address database and the E-911 system (e.g. the Master Street Address Guide or MSAG, hosted by Intrado). Kellie reviews telephone service order activity reports received from the local telephone companies (e.g. service orders for adds, deletes and changes) and works with the County Clerk & Recorder and Dept. of Revenue office to monitor grantor/grantee changes. She has worked extensively with the County's E-911 Consultant to improve the current GIS mapping data for the County and spearheaded the effort to pursue and develop this project. Kellie also has 9 years of previous experience as an Office Manager and Bookkeeper which supplied her with an

extreme attention to detail and exceptional customer service skills. Kellie attended the College of Great Falls – MSU and graduated with an Associates Degrees in Graphic and Web Design in 2016. She also graduated with a Bachelor's of Science in Organizational Communication from MSU – Billings in May 2017.

It is proposed that this project be contracted to Mapping and Planning Specialists, Inc. (MaPS, Inc.) and managed by the County DES Office. MaPS, Inc. has been working for the County as their E-911 Consultant since April 2000 (and Matt Pearce, as part of Baker GeoResearch, for several years prior to that). MaPS, Inc. successfully implemented the County's E-911 System over a decade ago and has completed multiple contracts with other County and City agencies in Montana and the region and has a reputation for providing quality GPS/GIS services. MaPS, Inc.'s personnel have extensive experience in GPS field data collection, GIS development and E-911 implementation and have worked on over fifty projects in many states across the nation. MaPS, Inc. has successfully completed previous projects of similar scope and have demonstrated a thorough understanding of the required GPS/GIS services. MaPS, Inc has implemented ArcGIS Online solutions for several utility projects in the State. The County believes that MaPS, Inc. has provided a reliable and fair project cost that is a good use of MLIA grant funding.

MaPS, Inc. is managed by Matthew Pearce, it's President and company Founder. Matt is a graduate of the University of Minnesota with a B.S. in Geography with GIS/Cartography emphasis. He has been working in the geographic field for 24 years and is a certified Emergency Numbering Professional (ENP) and a member of the National Emergency Numbering Association (NENA). MaPS, Inc. is currently providing E-911 and GPS/GIS mapping and addressing services for a significant number of MT counties, including Toole, Pondera, Chouteau, Valley, Granite, Mineral and Sanders. MaPS, Inc. specializes in Public Safety Consulting, GPS field data collection and GIS processing, including on-site project coordination and training, and has a hard-earned reputation of providing clients with high quality data and excellent customer service.

Section 5 – Scope of Work

Chouteau County proposes the following Goals, Objectives and Tasks for the successful implementation and completion of this MLIA grant application.

Goal 1: Maintain the County's current E-911 data against the NENA NG9-1-1 model.

Objective 1.1: Process ongoing 2018 E-911 maintenance mapping data and Year 2's field audit data against the NG9-1-1 framework; July 1, 2018 through June 30, 2019.

Task 1.1: As new roads and structures are collected and processed or verified/audited, the DES staff will continue to complete the attribution of NG91-1 fields added to the existing E-911 dataset as part of Year 1's efforts on this project/goal. For instance, on the road arcs, NG9-1-1 data fields will need to be attributed, such as ESN Left/Right, County Left//Right, State Left/Right, MSAG Community Name Left/Right, Postal Code Left/Right, Parity Left/Right, etc. Consultant to provide support to DES staff as needed.

Objective 1.2: Continue to ensure the integrity of the dispatch mapping software functionality; July 1, 2018 through June 30, 2019.

Task 1.3: After the 2018 field audit tasks have been completed and the field data is processed, updated data will be conveyed to the County's mapped ALI vendor. Map document(s) will also be revised/updated and submitted for testing to ensure that the data maintains compatibility with the dispatch mapping software (e.g. making sure the dispatch map still "pops" to the correct location during landline 9-1-1 calls). Tweaks/testing of the data and/or the map documents will be ongoing through June 30, 2019.

Goal 2: Maintain and expand the "Open Data" aspect of the County's GIS.

In Year 1, the DES ArcGIS Desktop license and its corresponding ArcGIS Online license were used to set-up an ArcGIS Online account to allow for data collection by DES staff. In addition, the data residing on ArcGIS Online was made public for everyone's use. The link is http://www.arcgis.com/home/item.html?id=5dfee772d0bd446e8fdc8e8df3a14c93. It can also be accessed using ESRI's Explorer app for iOS and Android devices by searching for "Chouteau County, MT PUBLIC MAP" in those apps. A public announcement in the form of a press release and posting to the County's DES webpage (www.chouteaucountydes.com or http://www.co.chouteau.mt.us/extension/CCDES/) was recently completed.

Objective 2.1: Regularly update digital maps/data accessible via web links from the County's website and configure each feature layer; February to March, 2019.

Task 2.1: County will continue to publish maps and establish and test linkages from the County's website and will update the data with the 2018's field audit collection effort by February 1, 2019.

Task 2.2: County staff users opting to become named AGOL (Level 1 or 2) users may have full access to the data (e.g. via account credentials, with a user name/password),

which will complement the general public's "stripped-down version" access. Presently, County GIS users (Roads Dept., law, fire and EMS) utilize ArcReader (free). The ultimate goal is to expand their access using ArcGIS Online, but the ESRI licensing costs are curbing participation. The DES office will continue to educate potential County users on benefits of greater access to the data through in-house presentations and offering licensing/training; April 2019.

Goal 3: GPS/GIS Field Audit

Objective 3.1: Continue the GPS/GIS field audit between August and October 2018.

Task 3.1: The County will continue its multi-year GPS/GIS field audit, which broke the County's approximately 3,500 structure points into manageable geographic pieces that could be tackled over four (4) years. Because of the density of structures and most benefit to the greatest residents (and greater odds of calling 9-1-1), collection started in the community of Fort Benton for the first year. Nearly 1,000 structures were verified/audited in the first year. For the second year, the remaining communities of Big Sandy, Geraldine, Highwood, Carter, Loma, Floweree and Square Butte are proposed, resulting in an additional 1,000 structures. It is anticipated the final 1,500 rural structures (those not in these communities) will be verified in the final two years of the multi-year grant. Given the size of the County, the rural structures will be divided into two areas and tackled over the final two years. Based on MLIA_2018_01, field auditing services will be accomplished with a per structure rate (covers all labor, fuel, vehicle, per diem, etc.). The DES staff will also be afield for 1-2 days a month to conduct at least 15% of the field audit.

The aforementioned communities will be canvassed systematically, road by road, structure by structure. The tablet computer will display all of the current GIS data (e.g. road centerlines, road points, structure points, access points, access-point-to-structure-point connectors, etc.) as well as background imagery (e.g. 2017 NAIP Color Orthos). While afield, the attribution of each structure point will be accessed, its current data reviewed (e.g. owner, resident, structure type and structure description, etc.) and updates will be made on-the-fly, based on available and observed conditions. Digital structure photographs will be taken and attached to structure points.

Objective 3.2: Continue use of the informative data gathering form letter. Deliver them to each structure during the GPS/GIS field audit betweenA ugust and October 2018.

Task 3.2: The above field audit will yield updated and valuable owner and resident data (particularly cell phone numbers and emails) should the County need to deploy its Public Alert Notification System (PANS). The PANS relies on GIS data supplied by the County, and can be used to effectively communicate with the County residents during disasters (e.g. wildland fires, floods, chemical spills, etc.) or large-scale emergencies (e.g. school lockdowns, threatening weather events, etc.). To update the current data and gather new contact information to support emergency communications with the residents of the County, a postcard style form letter (e.g. a 4" x 6" tear-off/mail-back postcard), detailing the project and informing the residents will be left at each structure as it is

verified/mapped. Form letter development is complete and was complemented by the use of an ArcGIS Online WebForm. In lieu of mailing in the form, residents were able to submit their updated information using the WebForm. Most residents (98%) chose to mail the cards in. Printing and postage costs for an additional 800 forms for this audit period are estimated to be $450. Forms will be printed by July 15, 2018.

Objective 3.3: Validate data gathered via resident feedback and update the GIS accordingly over the winter months (November 2018 to February 2019).

Task 3.3: As stated in Task 3.2, while afield, a form letter will be left at/on each structure during verification/mapping, detailing the project and informing the residents of the project's purpose/goals, as well as asking for information validation/feedback (based on each structure's Geo_ID#). Information received – whether reported in person, mailed in, called in, or from the County's ArcGIS Online WebForm – will be validated by DES staff (e.g. compared to the existing structure point attribution, landline phone records, E-911 data, parcel data, etc.) and the structure point data will be updated accordingly. The DES office will track (in the GIS with field attribution) whether information was received. Based on this year's field audit experience (with tear-off, mail-back postcards left as each structure was mapped), about 55% of the owners/residents responded (approximately 384 responses from the 717 forms delivered). Responses received will be validated and processed by DES staff over the winter months (November to February).

Objective 3.4: Continue to ensure the integrity of the PANS functionality by February 2019.

Task 3.4: After the 2018 field audit tasks have been completed and the field data is processed, updated data will be conveyed to/coordinated with the County's PANS vendor to ensure that the data maintains compatibility with the notification process (March 2019).

Objective 3.5: Process digital structure photographs over the winter months (November 2018 to February 2019).

Task 3.5: Each attached digital structure photograph taken afield will also be stored locally and renamed with the structure's unique identification number (Geo_ID#), to allow later hyperlinking in ArcGIS (e.g. so they can also be accessed in dispatch). Digital photo batch-processing will be conducted over the winter months (November to February).

Goal 4: MSDI Theme Steward Data Submittal

Objective 4.1: Submit an interim set of structure points and road centerlines (including Year 2's field audit/verification efforts) with the appropriate MSDI theme stewards to promote consistency and accuracy.

Task 4.1: Before June 30, submit a digital dataset to the State including valid metadata for the geodatabase and feature classes developed during the successful completion of this phase of the multi-year project.

Project Schedule

The project is contingent upon the award of Montana Land Information Act funding. The schedule for this project may be implemented as follows:

Chouteau County E-911 & GPS/GIS Project; FY 2018-2019		**JULY**	**AUG**	**SEPT**	**OCT**	**NOV**	**DEC**	**JAN**	**FEB**	**MAR**	**APR**	**MAY**	**JUNE**
Grant Award Notification													
Scope of Work and Contractor Agreements													
Overall Grant Administration/Coordination	DES1												
Overall Grant Administration/Coordination	DES2												
General supplies/copies													
1. E-911 data maintenance against NG9-1-1 model													
1.1 Ongoing maintenance mapping & field audit NG9-1-1 procs'g	DES2												
1.1 Ongoing maint. mapping & field audit NG9-1-1 procs'g support	CNSLT												
1.2 Map doc update, mapped ALI vendor coordination, testing	CNSLT												
2. Maintain and expand the GIS user base													
2.1 On-line map development, publishing, testing	CNSLT												
2.2 In-house GIS education presentation(s)	DES1												
2.2 In-house GIS education presentation(s)	DES2												
2.2 In-house GIS education presentation(s)	CNSLT												
3. GPS/GIS field audit (Year 2 = 1000 structures)													
3.1 Field verify 850 structures	CNSLT												
3.1 Field verify 150 structures	DES2												
3.2 Develop, print & ship form letters; purchase postage	CNSLT												
3.3 Process resident feedback received	DES2												
3.3 Process resident feedback received	DES1												
3.3 Process'g support for resident feedback received	CNSLT												
3.4 GIS update to PANS/Code Red	CNSLT												
3.5 Process 1000 structure pt. photo attachments as hyperlinks	CNSLT												
4. MSDI Theme Steward Data Submittal													
4.1 Submit digital data, including metadata	CNSLT												

SECTION 6 – BUDGET JUSTIFICATION AND BUDGET TABLE

The proposed project's costs for contracted services, equipment, in-kind labor, etc., include the following:

1) Maintain the County's current E-911 data against the NENA NG9-1-1 model. (46 hours).

   1.1) DES processing of ongoing maintenance mapping data (10 hours) and field audit data (16 hours) against NG9-1-1 GDB framework. Consultant support (4 hours)

   1.2) Consultant/Mapped ALI Vendor Coordination, Testing/Tweaking; 16 hours.

2) Maintain and Expand the GIS user base; (32 hours).

   2.1) Consultant AGOL map development, map publishing, testing, website linking; 16 hours.

   2.2) Joint in-house AGOL/GIS presentations/education sessions; 16 hours.

3) GPS/GIS Field Audit; (210 hours).

   3.1) Consultants to field verify 850 structures x $9/ea.; $7,650; 90 hours. County DES to map 150 structures & support/assist consultant; 40 hours.

   3.2) Consultant to print (800) postcard style form letters ($101); 1000 $.34 postcard stamps ($340); Shipping ($19); $460 total.

   3.3) DES to process resident feedback received; 58 hours. Consultant support ; 6 hours.

   3.4) Consultant/PANS Coordination; 2 hours.

   3.5) Consultant to batch process structure point photo attachments as hyperlinks; 16 hours.

4) MSDI Theme Steward Data Submittal (15 hours).

   5.1) Submit a digital dataset to the State including valid metadata (15 hours).

COUNTY (IN-KIND) CONTRIBUTIONS

The County DES Office expects to provide a considerable in-kind contribution of labor to the project effort, including grant administration from Debbie Gessaman and field data collection and structure point data validation by Kellie Butler.

Debbie Gessaman (DES1) anticipates providing at least 12 hours over the course of the project for grant administration, including Consultant coordination and State progress reporting, and 4 hours for educational support on/of in-house GIS presentations/training for additional/other potential County GIS users. Debbie will also assist with an additional estimated 8 hours of validation of the structure point information by taking overflow phone calls and covering for Kellie when she is conducting field data collection. Debbie's hourly rate (salary and benefits) is $24/hr., so her estimated 24 hours of labor contribution to the overall project is $576. Supplies/copies are also anticipated at $50 during the project period.

Kellie Butler (DES2) will support Debbie with grant administration (10 hours) and provide the bulk of labor for the validation of the structure point information (postcards or Webforms received), an estimated 50 hrs. of labor, as well as contributing to the field data collection effort, supplying an estimated 40 hrs. of direct labor. Kellie's estimated labor contribution to the project will be at least 100 hrs. At a labor rate of $19/hr., Kellie's labor contribution is $1,900.

The detailed tasks are listed below with the hours/costs and the assigned project partner for each task:

CHOUTEAU CO., MT - MLIA 2018-2019						
TASK	*ASGN'D*	*FEE HRS*	*CO HRS*	*RATE*	*COST*	
Overall Grant Administration/Coordination	DES1		12	25	$300	
Overall Grant Administration/Coordination	DES2		10	20	200	
General supplies/copies					50	
					550	
1. E-911 data maintenance against NG9-1-1 model						
1.1 Ongoing maintenance mapping & field audit NG9-1-1 procs'g	DES2		26	20	520	
1.1 Ongoing maint. mapping & field audit NG9-1-1 procs'g support	CNSLT	4		85	340	
1.2 Map doc update, vendor coordination, testing	CNSLT	16		85	1360	
		20	**26**		**2220**	**Subtl.**
2. Maintain and expand the GIS user base						
2.1 On-line map development, publishing, testing	CNSLT	16		85	1360	
2.2 In-house GIS education presentations	DES1		4	25	100	
2.2 In-house GIS education presentations	DES2		4	20	80	
2.2 In-house GIS education presentations	CNSLT	8		85	680	
		24	**8**		**2220**	**Subtl.**
3. GPS/GIS field audit (Year 2 = 1000 structures)						
3.1 Field verify 850 structures x $9/ea. (fee covers all labor/expenses)	CNSLT	90		85	7650	
3.1 Field verify 150 structures	DES2		40	20	800	
3.2 Develop, print & ship form letters; purchase postage	CNSLT				460	
3.3 Process resident feedback received	DES2		50	20	1000	
3.3 Process resident feedback received	DES1		8	25	200	
3.3 Process'g support for resident feedback received	CNSLT	4		85	340	
3.4 PANS update, vendor coordination	CNSLT	2		85	170	
3.5 Batch process 1000 structure point photo attachments as hyperlinks	CNSLT	16		85	1360	
		112	**98**		**11980**	**Subtl.**
5. MSDI Theme Steward Data Submittal						
5.1 Submit digital data, including metadata	CNSLT	**15**		**85**	**1275**	**Subtl.**
			24	<DES1 Hrs.	**$18,245**	**Total**
			130	<DES2 Hrs.		
	CNSLT Hrs.>	**171**	**154**	<Total DES Hrs.		

MLIA GRANT BUDGET SUMMARY TABLE

MLIA GRANT BUDGET SUMMARY					
	MLIA Summary	Applicant Summary			Total:
Category	MLIA Share	Applicant Cash	Applicant In-kind	Applicant Subtotal	MLIA Share, Applicant Subtotal, Partner Subtotal
a. Personnel					
a. 1. Debbie Gessaman			$600	$600	$600
a. 1. Kellie Butler			2,600	2,600	2,600
b. Travel					
c. Equipment					
d. Supplies & Materials	$460		50	50	510
e. Contractual	14,535				14,535
f. Other					
Total	$14,995		$3,250	$3,250	$18,245

SECTION 7 – RENEWABLE GRANT ACCOUNTABILITY

1. MLIA_2018_01's progress report.

Chouteau County applied for and received an MLIA grant for the first year of this application's multi-year approach. Please review the following details on the Goals, Objectives and Tasks of last year's grant application as a progress report.

Goal 1: Transition the current E-911 data to the NENA NG9-1-1 model.
The Objectives and Tasks for this Goal have not yet be started (they are scheduled to begin in March 2018 for completion by June 2018).
Goal 2: ArcGIS Online; *(45% Complete)*
Objective 2.1 – ArcGIS Online Account Set-up; *DONE*
Task 2.1 – ArcGIS Online Account Set-up; *DONE*
Objective 2.2 – Digital Map Publishing; *(In Progress)*
Task 2.2 – Publish County Maps and Website Linkages; *(In Progress)*
Goal 3: Maintenance Mapping Program Development; *DONE*
Objective 3.1 – Purchase GPS Eqpt.; *DONE*
Task 3.1 – Purchase Trimble R1 unit/antenna; *DONE*
Objective 3.2 – Set-up Field Data Collection System; *DONE*
Task 3.2 – Field Data Collection System Set-up/Testing; *DONE*
Objective 3.3 – Train County Staff on GPS/GIS Mapping; *DONE*
Task 3.3 – Verification/Maintenance Training; *DONE*
Objective 3.4 – Train County Staff on GIS Procs'g; *DONE*
Task 3.4 – GIS Prcs'g of GPS Field Work; *DONE*
Goal 4: GPS/GIS Field Audit; DONE
Objective 4.1 – (Year 1 of 4) GPS/GIS Field Audit; *DONE*
Task 4.1 – GPS/GIS Field Audit (850 Structures); *DONE*
Task 4.2 – Form Letter/Postcards Printed/Stamped/Delivered; *DONE*
Task 4.3 – County Form Letter/Postcard Validation; *DONE*
Goal 5: State Coordination; *(scheduled for June 2018)*

2. MLIA_2018_01's narratives.

Goal 1: Transition the current E-911 data to the NENA NG9-1-1 model.
The County has not yet begun this section of the grant, but is confident that our experienced E-911 & GPS/GIS Consultant will be able to successfully position our dataset for this migration. Our Consultant is currently working with a similar client in SD, as part of implementing a statewide NG9-1-1 project. The County will benefit from the accumulated experience proffered by the neighboring State's progress.

Goal 2: ArcGIS Online.
An ArcGIS Online account was configured to allow for the field audit and ongoing E-911 maintenance mapping. The data residing on ArcGIS Online has been made public via this link: http://www.arcgis.com/home/item.html?id=5dfee772d0bd446e8fdc8e8df3a14c93.

The published map can also be accessed using ESRI's Explorer app for iOS and Android devices by searching for "Chouteau County, MT PUBLIC MAP" in those apps. A public announcement regarding this information was posted to the County's DES webpage (www.chouteaucountydes.com or http://www.co.chouteau.mt.us/extension/CCDES/). An informational meeting was held 12/4/17 to discuss ESRI AGOL licensing/options and to explore the data and access options. To date, despite high interest, no other County agencies/offices have opted to purchase licensing as a named AGOL user. Presently, County GIS users (Roads Dept., law, fire and EMS) utilize ArcReader (free). The ultimate goal is to expand their access using ArcGIS Online, but the ESRI licensing costs are curbing participation.

Goal 3: Maintenance Mapping Program.

DES staff have been assigning new physical addresses for new construction via the existing GIS dataset and custom tools provided by our Consultant. DES staff were also maintaining the E-911 system and data content by processing telephone service orders and changes received from various sources. The grant allowed the DES Office to purchase a sub-meter GPS receiver that was paired with a previously purchased tablet computer and ArcCollector to create content based on new construction. DES staff were trained on the Collector software and field data collection procedures and have begun ongoing maintenance mapping for new construction. DES staff were also trained on ArcGIS Pro software to maintain the existing GIS data.

Goal 4: GPS/GIS Field Audit.

Year 1's goal of auditing/verifying 850 structures was well surpassed – nearly 1,000 structures were updated/photographed. DES staff worked directly with our Consultants in the field, spending 6 days and over 160 man hours afield. The field data collection system was very efficient and accurate. Over 700 informative postcards requesting updated contact data were delivered and more than half were returned and processed by DES staff. The DES staff plan to coordinate press releases with the field work this phase, in hopes the postcard return rate will increase.

Goal 5: MSDI Theme Steward Submittal

The County has not yet begun this section of the grant (scheduled for June 2018).

SECTION 8 – AUTHORIZING STATEMENT

Authorizing Statement

I hereby certify that I have read the application 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.

Daren J. Schuster

Name (print or type)

Commission Chairman

Title (print or type

Daren J. Schuster

Signature and Title of Authorized Representative(s) of Public Entity Applicant

2/6/2018

Date

SECTION 9 – CHECKLIST – SIGNATURES REQUIRED

Applicant's Project Manager, defined Section 1, must initial in ink or mark 'n/a' if a section is not applicable.

Initial or mark n/a	Completed Required Task
	Proposal Prepared by an outside party – I have read this document in its entirety. *(if applicable)*
	Section 1 – Applicant, Partner, and Proposal Information
	Primary Applicant Information
	Funding Partner *(if applicable)*
	Proposal Information
	List All Past Awarded MLIA Grants
	Section 2 – Relevance *(300 max word limit)*
	Section 3 – Public Benefit
	Section 4 – Project Management
	Section 5 – Scope of Work Narrative *(4-page limit)*
	Section 6 – Budget Justification Narrative and Table *(3-page limit)*
	Budget Justification Narrative
	Complete Budget Table
	Section 7 – Funding Partner Statements of Support *(if applicable)*
	Section 8 – Renewable Grant Accountability Narrative *(if applicable)*
	FY2018 Grantee Report *(if applicable)*
	Past MLIA Grant Project Narrative *(if applicable)*
	Section 9 – A Signed Authorizing Statement