

Contact Info

Applicant:
City of Lander

Name of Project
Flood Protection Design

Mailing Address
240 Lincoln St.
City
Lander
State
WYOMING
Zip
82520
E-Mail Address
clara@landerwyoming.org
Phone #
307-332-2870 ext 118
Tax ID #:
83-60000071
Entity Type
City

Contact Person
RaJean Strube Fossen, Assistant Mayor
Name and Title
Address
240 Lincoln St
City
Lander
State
WYOMING
Zip
82520
E-Mail Address
rsfossen@landerwyoming.org
Phone #
307-332-2870 ext 117

Engineer Contact
Lance Hopkin
Address
240 Lincoln St
City
Lander
State
WYOMING
Zip
82520
E-Mail Address
lhopkin@landerwyoming.org
Phone #
307-330-4956

Other Contact
Name and Title
Address
City
State
WYOMING
Zip
E-Mail Address
Phone #

State of Wyoming
State Loan and Investment Board
Mineral Royalty Grant Program

Applicant

City of Lander

Entity Type

City

Name of Project

Flood Protection Design

Project Priority

1

 of

1

Brief project description limited to 50 words or less.

The project enhances USACE Flood Mitigation efforts to improve the timely Federal applications (BRIC and PROTECT). It aims to eliminate flood risks for people and structures in the 100-year floodplain, while offering solutions to preserve critical State Highway infrastructure.

Is this an Emergency?

Yes

No

x

Amount of Funding Requesting

\$300,000

NOTE: This amount must match the amount on the submitted resolution

List all other funding sources for the project in the table below including the status and amount expended, if any.

Other Funding Source Description	Amount	Status*		Amount Expended	Funding%
		Pending	Approved		
General Fund	\$300,000				50.00%
					0.00%
					0.00%
					0.00%
Total Other Funding	\$300,000			\$0	

*Documentation to support the status must be attached to the Application Packet.

Estimated Total Project Cost:

\$600,000

Auto Calculated
(Amount Requested plus Total Other Funding)

Balance of Project Incomplete:

\$600,000

Auto Calculated
(Estimated Project Costs less Amount Expended)

Estimated Reimbursement Rate:

50%

(Final Reimbursement Rate is Determined by Board Approved Amount)

Auto Calculated
(Amount Requested/Estimated Project Costs)

I certify that I am authorized to sign this application on behalf of our governing body, and the applicant will comply with all appropriate requirements, if approved.
To the best of my knowledge and belief, the information in this application is true and correct.
I understand the State may review any relevant documents or instruments relating to the analysis

Signature

Monte Richardson

Date

9/19/2024

Name and Title (typed)

Monte Richardson, Mayor

Attachment B to the Grant Agreement MRG-25006 between the Mineral Royalty Grant Program
The State of Wyoming, Office of State Lands and Investments
And City of Lander Page 2 of 10

Project Questions

Applicant: City of Lander

Name of Project Flood Protection Design

Population 7,546

	Directly	Indirectly
Percentage of population directly served by the project	85%	15%

1. Requesting funding for a Water Project? Yes No
If yes, complete the Water/Sewer Questionnaire. x

2. Requesting funding for a Sewer Project? Yes No
If yes, complete the Water/Sewer Questionnaire. x

3. Requesting funding for a Street and/or Road Project? Yes No
If yes, complete the Street Questionnaire. x

4. Requesting funding for a Fire Apparatus? Yes No
If yes, complete Fire Apparatus Questionnaire. x

5. Requesting funding to purchase a Vehicle? Yes No
If yes, complete Vehicle Replacement Certification Form. x

6. Do or will you own the asset for which funding is being requested? Yes No
x

7. Do you have an asset management plan? If yes, please provide a copy. Yes No
x

8. Do you have a maintenance plan for the project asset for which funding is requested? Yes No
If yes, please provide a copy of the current plan. x

9. Do you have an Administrative Order? (If yes, provide copy of the Administrative Order) Yes No
x

10. Is project needed to meet federal or state health and/or safety requirement? Yes No
If yes, provide specific health or safety requirement project will address. x

11. If only partial funding is possible, would that be beneficial to your project? Yes No
If yes, detail the minimum amount needed and why this amount would be beneficial. x

The City does not have an engineers estimate at this time and would be happy with any amount awarded for this project. The \$600,000 amount was determined by assuming Engineering is 10-12% of a \$6-10M construction project. Any unawarded amount will be paid from the Lander General Fund as authorized by Council.

12. If full funding is received but there are cost overruns or unexpected expenses, how will those additional costs be covered?

General Fund

13. Has a preliminary planning study, preliminary engineering report, feasibility study, technical study, planning, planning study, Wyoming Water Development Level I or II study been completed for the project?

Yes

No

na

14. How was it determined this project was needed?

See project narrative. Lander has been in flood mitigation planning since 2009.

15. Is an Environmental Review necessary for the project?

Yes

No

na

a. Has it been completed?

Yes

No

na

If yes, what potential issues need to be addressed?

The USACE Section 205 Feasibility study did a full environmental analysis available at the following link.
<https://usace.contentdm.oclc.org/utils/getfile/collection/p16021coll7/id/20512> . The USACE is currently determining if the study needs to be amended with an expanded protection area.

16. Is the project for deferred maintenance, preventative maintenance or is the project solving a problem already realized by the community?

n/a

17. Please describe any other funding sources applied for to fund this project but were denied, if applicable.

n/a

Attachment B to the Grant Agreement MRG-25006 between the Wyoming Royalty Grant Program
The State of Wyoming, Office of State Lands and Investments and Project Questions
And City of Lander Page 4 of 10

Project Narrative Questions

Applicant: City of Lander

Name of Project Flood Protection Design

1. Provide a detailed description of the entire project including all activities regardless of funding source.

Flood mitigation measures have been studied in Lander since before the publication of the USDA Lander Flood Protection Project of 2009 prompted by the NRCS and the Popo Agie Conservation District (PACD). After the destruction during the 2010 FEMA Flood disaster event, the 2009 design was null and void. A USACE Section 22 study was paid for with a partnership between the PACD, the City, and the County. By 2015 that Section 22 Study progressed into the current Section 205 Flood Mitigation Project funded 100% by the City which addresses only a portion of the floodplain issues. The project currently being designed consists of catching flood waters at the south end of town near City Park and putting them back in the channel. The Corp built a new hydraulic model for this project and it shows that an actual 100-year event would be catastrophic for Lander. The new hydraulic model found a mistake in the existing FEMA floodplain mapping and that there is a far more extensive area of flooding impact than what is currently adopted. The USACE model shows flooding 1st through 5th Streets from the south end of town to the north end and that the City's sewer Lagoons would be inundated. The USACE has been working on a design using the model that focuses on improving the channel upstream of Main Street Bridge to City Park to handle the additional flow. The project requires widening around both the 2nd Street and Main Street Bridges to capture the flood water safely as well as additional channel widening. The City and the USACE are nearing 65% completion of the design and it is becoming evident that there are downstream impacts that need to be mitigated as well. In order to take advantage of Federal BIL funding opportunities, the City is pursuing funding this design project to define construction solutions and cost estimates to increase the area of protection to greater than the current 85% protection level from the USACE design and also address the transportation issues caused by annual runoff and the potential for highway infrastructure failures under the projected 100-year flood event. The Middle Fork of the Popo Agie has meandered away from its existing channel below Main Street Bridge in numerous locations. The most concerning location is 3200 feet downstream where the channel has turned towards Highway 789 and is nearly across the right-of-way line. There is about a 40' drop from the Highway right-of-way to the river and it is unsafe. The City has documented that we are losing about 9 feet per year as the river continues to carve at this location and the soil above calves off into the river. The river is also currently aimed at a residential house and a concern in which we have is that all the additional flow downstream of Main Street Bridge is going to not be controlled and cause unexpected downstream damage. The investment and award of this request will provide all the documentation to put in timely Federal applications (BRIC and PROTECT) that has the potential to increase the citizen protections for life and property at the least taxpayer burden from the City's general fund.

2. Describe how the project will contribute to the health, safety and welfare of the citizens in your community.

The design project will enhance and expand the ongoing USACE Flood Mitigation design in preparation of making a better scoring Federal Application to the 2025 FEMA BRIC (Building Resilient Infrastructure Communities). The Flood Mitigation project will be designed to remove the risk to over 85% of the affected people and structures who are currently located within the 100-year floodplain. In addition to the USACE project this design project also presents solutions on how to preserve State Highway infrastructure in two ways: 1. Highway 287/789 heading to Riverton has an active slide in the highway right-of-way threatening road failure through existing annual runoff flows and projected 100-year flood event and 2. Main Street Bridge (State Highway 287) has a threat of failure for anything over a 50-year flood event. The loss of the Main Street Bridge bifurcates our City and cuts off access to daily used local amenities such as schools, groceries, retail, post office, and housing. Loss of Highway 287/789 greatly disrupts our major supply/trucking routes, bus routes and access to neighboring cities. Lander also has had near death experiences during flood fighting and a mitigation project will relieve us of future risk in flood fighting.

3. Describe how the project will protect citizens from hazards that may result if the project is not done?

Lander has been identified as a high risk for national FEMA flood disaster events, the two most recent being in 2010 and 2017. Finding a solution, and implementing it, to protect both people and infrastructure from the dangers of flooding within the project area is critical before it becomes an emergency. The design project will enhance and expand the ongoing USACE Flood Mitigation design in preparation of making a better scoring Federal Application to the 2025 FEMA BRIC (Building Resilient Infrastructure Communities). The Flood Mitigation project will be designed to remove the risk to over 85% of the affected people and structures who are currently located within the 100-year floodplain and eliminate the failure of critical Highway infrastructure in and out of Lander.

4. Describe your financial need in relation to the project. Explain how the project will be carried out if multiple funding sources are utilized.

The MRG award will reduce the taxpayer burden for the additional designs and make Lander more competitive for the Federal FEMA BRIC and PROTECT funding. Construction under BRIC will be reimbursed 75% by the federal award whereas the existing USACE Section 205 construction appropriation is eligible for only a 65% federal award with a 35% local match

5. Provide a detailed breakdown of the project costs. Provide a WY Licensed Engineer's cost estimate allocating no more than 10% for construction contingency, engineering services for design at no more than 10% of construction budget, and construction management at no more than 10% of the construction budget. The submitted cost estimate needs to have been prepared within the last 12 months.

Activity Costs:

Administration	n/a
Legal	n/a
Land Acquisition	n/a
Engineering Costs by Service	
Basic Services	\$ 600,000
Resident Project Representative Services	n/a
Additional Services**	n/a
Construction	n/a
Contingency	n/a
Total Project Costs	\$ 600,000

Auto Calculates

* Please also attach a more detailed cost estimate from the WY Licensed Engineer.

** Please provide a description of the "Additional Engineering Services" to be provided.

n/a

6. Provide estimated project schedule

	Date
Design	7/1/2025
Bid	
Start Construction	
End Construction	

7. Provide estimated grant draw down schedule

Time Frame	Amount
Jun-25	\$ 300,000
Total Draws	\$ 300,000

City of Lander MRG Project Narrative – Supplemental information

***Please also attach a more detailed cost estimate from the WY Licensed Engineer.**

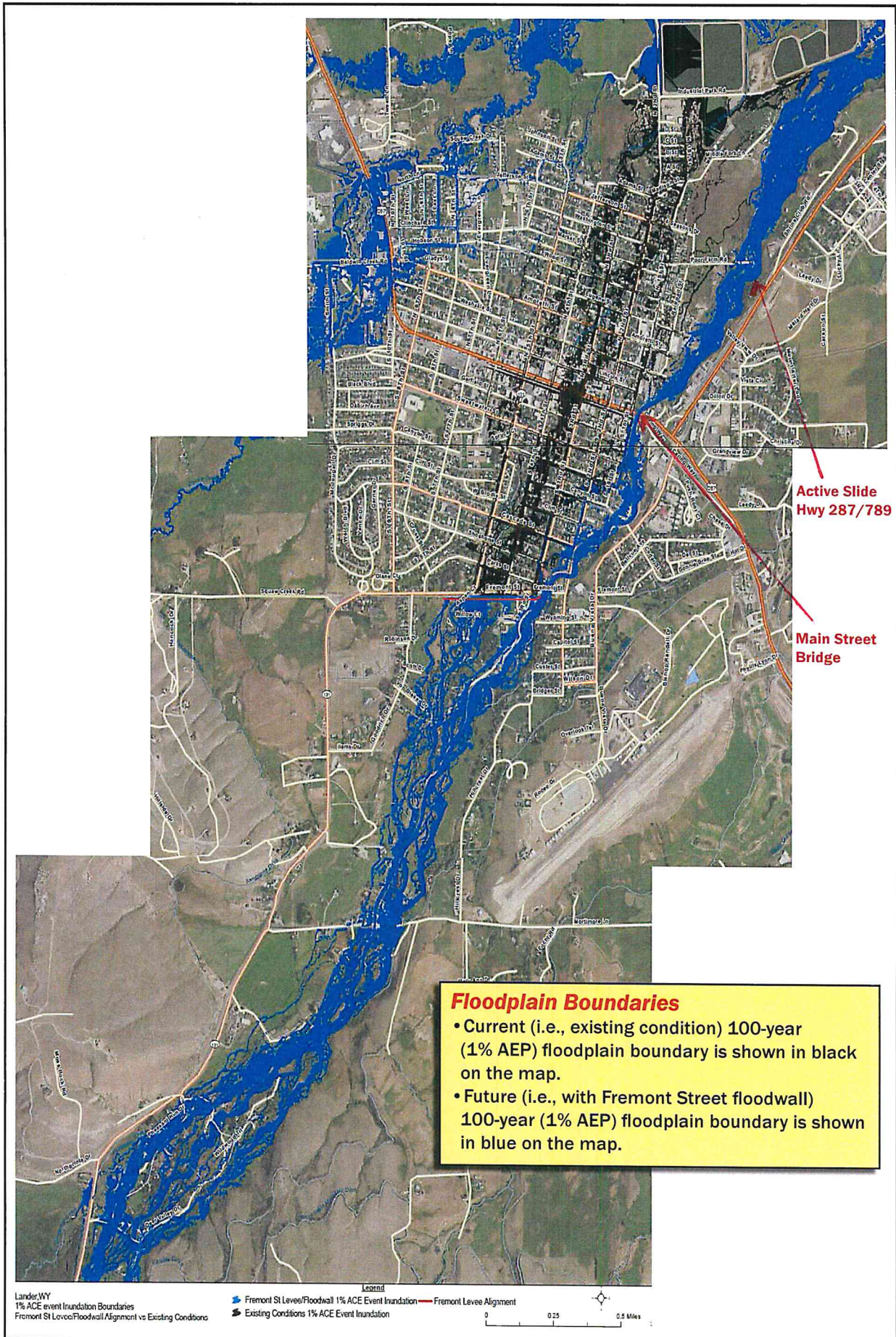
The \$600,000 design amount was determined by assuming that Engineering design is typically 10-12%. Using the USACE feasibility study level unit costs, the City Engineer estimates that a mitigation project of this magnitude will result in a \$6-10M construction project. Since the USACE will share their hydraulic modeling data we used the lower numbers of 10% engineering of a \$6M project.

Between now and the February MRG award determination, Lander will put out an RFP and get engineering proposals based on project scoping in order to get a better defined estimate of the engineering cost needs of this project.



US Army Corps
of Engineers
Omaha District

Section 205 Flood Risk Management Study Middle Popo Agie River - Lander, WY 100-year Floodplain Boundaries



General Financial Questions

Applicant: City of Lander

Name of Project: Flood Protection Design

Date Prepared: 2/6/2024

Prepared By: Charri Lara, City Treasurer
(Name and Title)

1. Assessed Valuation, this Fiscal Year (FY) 99750682/2023

2. Total Mills levied by the Entity, this FY 8

3. Provide information on the capital improvement plan and budget

N/A for a design project. Final design and construction will result in a full long term maintenance and CIP plan.

4. What is number of the total mill levied on real property in the Entity's jurisdiction?

8 mils

5. What is the Entity's Total bonded and non-bonded indebtedness (Including principal balance, interest rate, and remaining term?)

SLIB #125 - \$422915.18 @1.5%, SLIB #128 - \$1,131,395.21 @ 1.5%, SLIB #141 - \$1,296,923.51 @ 1.5%, SLIB #142 - \$894,930.59 @ 1.5%, SLIB #180 - \$442,355.12 @ 1.5%, SLIB #194 - \$1,199,387.60 all of these loans are enterprise fund loans

6. Please provide the following information for the past three FYs

Total Investments		
	Year	Amount
6/30/	21	\$1,611,757.00
6/30/	22	\$1,643,937.00
6/30/	23	\$3,700,697.00

Total Cash Balances		
	Year	Amount
6/30/	21	\$12,271,804.00
6/30/	22	\$11,801,979.00
6/30/	23	\$11,488,713.00

7. What is the Sales and Use Tax levied in the County in which the project is located?

	Year	Amount Levied	\$ Amount
6/30/	21	5 1/2	\$3,377,441.00
6/30/	22	5 1/2	\$4,174,405.00
6/30/	23	5 1/2	\$4,477,027.00

8. Please provide the following information related to reserve accounts.

Water Reserve Account		
	Year	Amount
6/30/	21	\$2,900,046.00
6/30/	22	\$2,501,622.00
6/30/	23	\$2,295,585.00

Sewer Reserve Account		
	Year	Amount
6/30/	21	\$2,900,046.00
6/30/	22	\$2,501,622.00
6/30/	23	\$2,295,585.00

General Fund Reserve		
	Year	Amount
6/30/	21	\$5,744,862.00
6/30/	22	\$7,911,747.00
6/30/	23	\$8,342,896.00

Other		
	Year	Amount
6/30/		
6/30/		
6/30/		