

Agency: Commerce, Community and Economic Development**Grants to Municipalities (AS 37.05.315)****Grant Recipient: Gustavus****Federal Tax ID: 270085777****Project Title:****Project Type: Maintenance and Repairs**

Gustavus - Good River Culvert Replacement Project

State Funding Requested: \$107,500**House District: Juneau Areawide (31-32)**

One-Time Need

Brief Project Description:

This project will eliminate a serious traffic hazard where Good River Road crosses the Mountain View Drainage stream.

Funding Plan:

Total Project Cost:	\$225,500
Funding Already Secured:	(\$118,000)
FY2015 State Funding Request:	<u>(\$107,500)</u>
Project Deficit:	\$0

Funding Details:

Received funding from US Fish and Wildlife in the amount of \$30,765.00 for planning and design work

Detailed Project Description and Justification:

The project required a detailed design, provided through funding of US Fish and Wildlife service. This design was created to eliminate a serious traffic hazard where Good River Road crosses the Mountain View drainage stream. There have been several rollover accidents, and some vehicles have gone off the road into the flowing stream, a distance of 10 feet below the road grade. Additionally, a fish passage barrier was caused by the failing culverts.

The plan is to replace the gravel road embankment and two damaged and poorly installed culverts with a modular steel bridge with guardrails. The original plan called for a 12' diameter culvert with bottom buried to a depth of 5 feet. This was determined to be very problematic to construct due to Gustavus's sandy soil and high water table. The second, and chosen, solution calls for a modular bridge, skewed to span the stream, which crosses under it at approximately a 30 degree angle. The bridge will have guard rails and the streambed below will be reconstructed in a natural manner eliminating the fish passage barrier.

Unable to attach supporting documents. 1.17.2014.sm

Project Timeline:

2014 RFQ is written and will be issued as soon as we receive notification of successful CIP request.

Fall 2014 - Spring 2015 Construction to begin dependent upon weather.

Fall 2015 - Construction complete. Expect up to three draws on CIP funds after Feb. 2015 through ACH

Entity Responsible for the Ongoing Operation and Maintenance of this Project:

City of Gustavus

Grant Recipient Contact Information:

Name:	Noel Farevaag
Title:	City Clerk/Treasurer
Address:	1802 Gustavus Road Gustavus, Alaska 99826
Phone Number:	(907)697-2451
Email:	clerk@gustavus-ak.gov

Has this project been through a public review process at the local level and is it a community priority? Yes No

**CITY OF GUSTAVUS
RESOLUTION 2014-04**

**A Resolution Approving the Submission of a Capital Improvement Funding
Request for the Good River Road Culvert Replacement Project**

WHEREAS, the City of Gustavus seeks to make the most of available sources of funding to improve services and infrastructure for its residents and visitors, and

WHEREAS, Good River Road in Gustavus was constructed long ago as a narrow pioneer road and crosses a flowing stream in a deep gully, and

WHEREAS, the narrow road crossing without guardrails has been the site of several serious accidents involving vehicles crashing into the stream, and

WHEREAS, the failing road culverts restrict fish passage, and

WHEREAS, the City of Gustavus has partnered with the US Fish and Wildlife Service (FWS), Juneau office, to eliminate the traffic hazard and fish passage blockage, and

WHEREAS, the FWS has funded the engineering survey and design work to replace the failing culverts and embankment with a modular bridge with guardrails, and

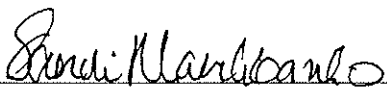
WHEREAS, the original cost estimate of \$118,000 for the project was based on a preliminary design to install a culvert, which has since been found to be incompatible with the soil and water table conditions at the site, and

WHEREAS, the 2012 CIP grant of \$118,000 is short of the new engineer's cost estimate for the bridge of \$225,500, leaving \$107,500 needed for construction, and

WHEREAS, the City wishes to construct this project as soon as possible to assure traffic safety on this heavily used arterial road.

NOW THEREFORE BE IT RESOLVED that the Gustavus City Council approves the CIP funding request to the 2014 Alaska Legislature in the amount of \$107,500 for the Good River Road Culvert Replacement Project and urges the Legislature and the Governor to consider it favorably.

PASSED AND APPROVED by the Gustavus City Council this 13th day of January, 2014.



Sandi Marchbanks, Mayor



Attest: Noël Farevaag, City Clerk/Treasurer

Policy on Project Planning
PROJECT SCOPING and DEVELOPMENT FORM
Good River Road Culvert Replacement
(November 2013 status update)

This form is to be used to document project planning and approval in order to assure that: project options are well-considered; the best option is put forward; initial and continuing costs and funding are addressed; and that Council approval has been given for implementation. Use this project scoping form with the Project Planning and Approval Process Flow Chart.

Answer the questions that pertain to your proposed project. Attach additional narrative pages if necessary. Type in the electronic form using as much space as you feel is necessary.

Part 1. Project Identification

Name of project: Good River Road Culvert Replacement (Portion of Gustavus Fish Passage Project)

Project Contact: Mike Taylor, CIH, PE (Volunteer Project Manager)

E-mail: mikeandkaren@shizendou.net Phone: 907-697-2273

Part 2. Project Scope refers to a project's size, goals, and requirements. It identifies what the project is supposed to accomplish and the estimated budget (of time and money) necessary to achieve these goals. Changes in scope will need Council approval.

1. What is the project?
 - What are its goals and objectives?
 - Who/what will be aided by this project? Who are the targeted stakeholders/customers?
 - Is a preliminary survey necessary to identify the number of potential customers/users? How will you design and conduct the survey?
 - What is NOT covered by this project? What are its boundaries?

The primary objective is to eliminate a serious traffic hazard where Good River Road (a major collector) crosses the Mountain View Drainage stream. The secondary objective is to eliminate a serious fish passage barrier caused by the failing culverts and open the valuable habitat on 3 miles of stream above the site for spawning and rearing pink and coho salmon, cutthroat trout and Dolly Varden char.

We will remove the gravel road embankment and the two damaged and poorly installed culverts and install a modular steel bridge with guardrails to eliminate permanently the traffic hazard and to eliminate the fish passage barrier at the site.

The project will benefit numerous residences, two visitor lodges and a hair salon along Good River Road and the roads that feed into it.

The stream and site have been surveyed and the replacement bridge installation project has been designed using funding granted for fish passage improvement by the US Fish and Wildlife Service, Juneau Office. Once sufficient funding is on hand to meet the engineer's cost estimate of \$225,500 we are ready to put the project out to bid.

What is not included is the removal of traffic hazards and fish passage barriers at Spruce Lane and Tong Road, and fish passage barriers at two private driveways upstream of the Good River Road site. These sites are the subject of a separate project scoping form.

2. Why is the project needed?

- What community problem, need, or opportunity will it address?
- What health, safety, environmental, compliance, infrastructure, or economic problems or opportunities does it address?

The project is needed for two reasons:

- The road is narrow over the existing culverts and there have been several rollover accidents in which a vehicle has gone off the road into the flowing stream, which is over 10 feet below road grade. The improvement will widen the traffic way. The guard rails will prevent vehicles from sliding off into the stream.
- The existing culverts were poorly installed many years ago, before the City was formed and took responsibility for the road. They have been found by the US Fish and Wildlife Service (FWS) to impede fish passage. The project will remove the barrier culverts and establish a natural stream bed under the bridge.

3. Where did the idea for this project originate? The idea originated with the Road Committee following a serious accident at the site about four years ago.

4. Is this project part of a larger plan? (For example, the Gustavus Community Strategic Plan, or committee Annual Work Plan?) This was part of the Road Committee annual work plan, but is now being managed in cooperation with the committee by a project manager appointed by the Gustavus Mayor in 2012. The project manager has reported progress and developments to the council from time to time.

5. What is your timeline for project planning?

- By when do you hope to implement the project?
The consultant's stream survey and initial report was completed in 2011. The initial design replacing the failed culverts with a single 12 foot diameter culvert buried five feet below stream level to meet fish passage requirements was completed in 2012, with a construction cost estimate of \$118,000. However, experience in 2012 with two other large culvert installations suggested that the culvert could not be installed to that depth in the sandy soil with a high water table, so we the design consultant to redesign for a bridge.

In summer of 2013 the bridge option design was completed with a new construction cost estimate of \$205,500. The cost estimate includes a skewed modular steel bridge with guardrails and a temporary bypass road to allow traffic to move during construction.

The project now needs an additional \$107,500 to meet the new cost estimate before it can be put out to bid. The project manager and his partner at FWS are working to secure the additional funds with the hope of constructing in summer of 2014.

Will the planning or final project occur in phases or stages?

Planning is complete and only construction and final reporting remain.

6. What is your budget for the planning process? Will you be using a consultant? The US FWS has funded the project planning and design work totaling \$30765 to date. The City of Gustavus has not had to budget any funds to date for the project.

7. What is your rough estimate of the total cost of the planning and final product? At the least, please list cost categories. See Part 4. (Ques. 4-8) and Part 5 (Budget) for guidance.

Project survey and design work, not counting in-kind work by the volunteer project manager and the FWS biologist, sums as \$30,765+\$225,500 =\$256,265.

Parts 3., 4., 5., 6. Project Investigation and Development

Parts 3.—6. refer to social, environmental, and financial impacts of various options. These questions will help you document your consideration of alternatives and your choice of the option providing the best value for the community. Your goal is to generate alternatives and make a recommendation from among them. Return to Part 3., “Summary” after applying Parts 4.—6.

Summary:

1. What alternative approaches or solutions were considered? Make a business case for your top two or three options by discussing how effectively each would fulfill the project goals, and by comparing the economic, social, and environmental costs vs. benefits of each one.

Option 1 was a 12 foot diameter culvert with the bottom buried five feet below the streambed, and guardrails on the reconstructed embankment. This was determined to be very problematic to construct due to the sandy soil and high water table at the site.

Option 2, which has been selected, is a modular bridge, skewed to span the stream, which crosses under it at approximately a 30 degree angle. The bridge will have guard rails and the streambed below will be reconstructed in a natural manner eliminating the fish passage barrier.

2. What solution was chosen as the best and why is it the best? Option 2 was considered the most reasonably constructible solution due to soil and hydrologic conditions.

3. Identify your funding source(s).

- How will the project be funded initially, and for its operating life?
- Is there a matching fund requirement? Please provide details.

The consulting work for stream survey and project design is funded by FWS. The City received a CIP grant for \$118,000 in 2012 for construction based on the original engineer's estimate.

We are seeking an additional \$107,500 to reach the full amount of the new engineer's estimate for the bridge option.

Part 4. Environmental, Social, Financial Impacts

1. Project Impacts Checklist

Will this project affect:	No	Yes (+/-)	Maybe
Environmental quality? (+ = impact is beneficial; - = harmful)			
• Climate change	X		
• Streams/groundwater quality		X	
• Air quality	X		
• Soils/land quality	X		
• Fish/wildlife habitat, populations		X	
• Plant Resources (timber, firewood, berries, etc)	X		
• Invasive or pest species	X		
• Natural beauty of landscape or neighborhoods	X		
• Neighborhood character	X		
• Noise or other environmental impacts	X		
• Environmental sustainability		X	
• Hazardous substances use	X		
• Community waste stream	X		
• Light pollution at night	X		
Recreational opportunities?			
• Public land use and access	X		
• Trails/waterways	X		
• Parks	X		
• Public assembly/activities	X		
Education/training/knowledge & skill development?	X		
Public safety?	X		
Public health?	X		
Medical services?	X		
Emergency response?		X	
Economic performance & sustainability?			
• Employment of residents		X	
○ Short-term (i.e. construction)		X	
○ Long-term (operating and maintenance)	X		
• Cost of living reduction	X		
• Return on investment	X		

• Visitor opportunities/impressions/stays/purchases	X		
• Competitive business environment	X		
• Support for existing businesses	X		
• New business opportunities	X		
• Economic sustainability	X		
• Attractiveness of City to new residents/businesses	X		
City government performance?			
• Infrastructure quality/effectiveness/reach (more people)		X	
• Existing services		X	
• New services	X		
• Cost of City services	X		
• Tax income to City	X		
Transportation?			
• Air	X		
• Water	X		
• Roads		X	
Communications?			
• Internet	X		
• Phone	X		
• TV/radio	X		
Other? (type in)			

2. How does this project provide benefits or add value in multiple areas? (E.g., benefits both to the environment and to business performance.)

This project provides benefits in two areas: 1) road traffic safety, and 2) fish habitat and passage.

3. Are other projects related to or dependent on this project? No.

4. Will the project require additional infrastructure, activity, or staffing outside the immediate department or activity? (E.g., will the construction of a new facility require additional roads or road maintenance or more internal City staffing?) No.

5. What regulatory permits will be required and how will they be obtained? This project will require regulatory permits from the Corps of Engineers, and ADF&G. FWS will file the permit requests for us as an in kind donation on the project.

6. What are the estimated initial (e.g., construction or purchase) and continuing operational costs of the project?

The consulting phase of the project will cost approximately \$23,260.

7. Is an engineering design or construction estimate necessary? Yes, it is complete with funding provided by FWS.

8. Will operation of the project generate any revenue for the City such as sales, user fees, or new taxes? If so, how will the new revenue be collected? No.

Part 5. Project Budget

Proposed Budget Line Items (Update) 11/2013 to bridge option)

Construction project Budget estimate	Cost	Operational budget estimate (annual)	Cost
Administrative	\$0	Personnel	\$
Project mgmt (in kind FWS)	\$2500	Benefits	\$
Land, structures, ROW, easements	\$0	Training	\$
Engineering survey & design	\$30,765	Travel	\$
Permitting, inspection	\$0	Equipment	\$
Site work	\$	Contractual	\$
Demolition and construction	\$225,500	Supplies	\$
Waste disposal	\$	Utilities	\$
Equipment	\$	Insurance	\$
Freight	\$	Repair & maintenance	\$
Contingencies	\$	Other (list)	\$
Other (list)	\$	Other (list)	\$
Other (list)		Total direct costs	\$
		Indirect costs	\$
		Income (fees, taxes)	\$
		Balance: costs-income	\$

Part 6. Jobs and Training (required by some granting agencies)

1. What service jobs will be needed for operation and maintenance? *None*

2. How many full-time, permanent jobs will this project create or retain?

 0 Create/retain in 1-3 years

 0 Create/retain in 3-5 years

3. What training is necessary to prepare local residents for jobs on this project?
None

4. How many local businesses will be affected by this project and how?
There will be a road closure for approximately 3 days for construction, which may affect two local lodges, and a hair salon and neighborhood access. However, the plan includes an additive alternate for a detour road to maintain traffic flow.

Part 7. Business Plan (Upon Council request)

Not required

Part 8. Record of Project Planning and Development Meetings

1. Please document the manner in which public input was received.
 - Public comment on agenda item at committee or Council meeting
 - Special public hearing
 - Dates and attendance for the above.
 - Written comment from the public (please attach)

The project has been discussed at Road Committee Meetings and Council meetings through 2013.

2. Please use the following chart to document committee meetings, Council reports, and so on. Did the committee make recommendations or requests? Did the Council make requests of the committee?

Meeting Record

Event (Meeting of committee, Council report, public hearing, etc.)	Date	Agenda Posted (date)	Minutes or record Attached? (yes/no)	Outcome Rec to Council, requested action of Council, etc.	No. of attendees
Road Cmte Meeting	5/3/11	4/29/11	No	Requested grant approval	3
Road Meeting	12/7/11	12/2/11	No	Rec to Council to put on CIP list	3

Council Meeting	6/20/12			Update to Council	
Council Meeting	4/18/13			Update to Council	
Road Meeting	8/2013			Update report	

Part 9. Feedback to the Council

With the understanding that this form must be adapted to a variety of projects, please provide feedback on how the form worked for your committee. Thank you for your suggestions.