

FY 2010 Capital Request Gustavus Transient Vessel Mooring Facility

FY10 Capital Project Request Form for District: C HD 05

Grant recipient name (ie. Name of Municipality, School District, or Organization): **Alaska Department of Transportation and Public Facilities (ADOT&PF)**

Physical location of project (community name): **Gustavus. The Project is located in the Gateway to Glacier Bay National Park: The city of Gustavus, Alaska. The population of about 500 people depends heavily on revenue from tourist traffic generated by the park, and a significant part of the local economy has developed serving the needs of visitors to this natural wonder.**

Project Title (should clearly state what the project is): **Gustavus Transient Vessel Mooring Facility**

Brief Description of Project (1 or 2 sentences): **Build a Breakwater Float and a Timber Mooring Float as part of a multi-phase replacement of the existing dock and trestle facility. The Breakwater Float will increase mooring capacity for smaller boats and skiffs, while providing improved protection from Icy Passage's strong seas. The Timber Mooring Float further increases moorage capacity and further capitalizes on the protection provided by the breakwater structure.**

Total Cost of Project from Inception to Completion: (Total should equal the funding request from the State and funding sources secured, requested or needed listed below): **\$2,000,000**

State Fiscal Year 2010 Funding Request from the State: \$1,350,000

If your project is funded this year, will you be requesting state funding again? (Y/N): **No.**

Funding Plan

Please list any funding **already secured**, as well as the year it was secured:

Funding Source	Amount Secured	State FY
Federal Funds		
State Funds		
Denali Commission	\$650,000	FY10
Rasmusson Foundation		
Local Funds		
Other Funds (explain)		

Per Irene Gallion, 1/21/09 e-mail to Gustavus city clerk: "

Today I talked to Mike MacKinnon, who said that the Denali Commission will award 650K, contingent on the State/Gustavus coming up with a 50% match"

Please list any non-state funding currently **requested but not yet secured**:

Funding Source Amount Requested State FY

Federal Funds

State Funds

Denali Commission

Rasmusson Foundation

Local Funds

Other Funds (explain)

If you need additional funding to complete this project, please indicate below from whom you intend to secure that funding:

Funding Source Amount Needed State FY

Federal Funds

State Funds

Denali Commission

Rasmusson Foundation

Local Funds

Other Funds (explain)

Please provide a detailed description and project justification

(approx. a one page summary, attach all other project back up with this form)

Overview and Benefits

The current primary marine facility was built in the early 1960s to serve five homesteads, and now serves in excess of 500 people. The entire facility is in a deteriorated state, and the existing mooring floats are removed and stored in the fall due to their inability to withstand winter weather. Limited small boat facilities mean that charter operators have to take turns using the current facility when weather allows its use. Even in summer, the small boat facility is unusable during periods of strong winds due to its alignment with prevailing seas, lack of shelter, and the outdated design.

The new facility will:

- Increase operational safety. The current facility requires that boats jockey for limited mooring, often times in challenging wave conditions. The new facility will be built to serve the expanding needs of the community in higher seas and generally poorer weather. Improved capacity will eliminate the need for multiple users to jockey for position along a mooring with limited space. These improvements reduce the liability of the State and City, and reduce wear and damage for users.
- Reduce maintenance costs. The facility has been designed to withstand the relatively extreme

wave action in Icy Passage. The new design of the harbor facility as a whole provides better protection to the proposed timber mooring facility. The timber moorage will be able to be left in place over the winter, eliminating the costs of moving and storage. New construction materials result in lower maintenance costs.

- Provide economic advantages. Improved access for all small boats will increase through-traffic for the city and increase the transient’s time spent there, providing the opportunity to expand services to private boaters and charter customers.
- Provide expanded capacity and improved efficiency. Not only will more temporary moorage be available, but operators can choose moorage that better suits their vessel and business.
- Increase small cargo capacity.
- Improve access. Current boat access to Glacier Bay National Park through the protected waters of Bartlett Cove is highly regulated and limited. Not only will improved dock capacity expand access to the park, but visitors may extend the time they spend there. The location of the proposed harbor will result in tourists driving through the Gateway to Glacier Bay National Park, increasing Gustavus’ exposure to tourist dollars.
- Preserve natural resources. The Park Service has resisted increased boat traffic in Bartlett Cove due to threats to the humpback whale and other species by focusing increased boat traffic into the portal of Glacier Bay. The proposed project, by alleviating pressures on Bartlett Cove, supports the continuation of a 19-year whale research program being conducted by the National Park Service in Bartlett Cove.

Project Description

Gustavus, AK does not currently have a man-made harbor. The Transient Vessel Mooring Facility is part of a multi-phase replacement of the existing dock and trestle facility that will enhance the transient mooring facilities, increase small boat capacity, and will modernize the facility. There are two main components of this facility: A Breakwater Float and a Timber Mooring Float. The Breakwater Float will increase mooring capacity for smaller boats and skiffs, while providing improved protection from Icy Passage’s strong seas. The Timber Mooring Float further increases moorage capacity and further capitalizes on the protection provided by the breakwater structure. The Transient Vessel Mooring Facility project is a major replacement and capacity-expansion effort. As part of the overall project, the new floats will provide year-round protection from currents for the timber mooring float, establishing the only mooring facility in Gustavus that is not tide-dependent. Portions of the current facility are in need of immediate replacement, and this project is expected to extend the service life of the facility by 30 years.

Please see attachments for additional information.

Detailed budget

Item	Qty	Price	Amount
Mobilization/Demobilization			\$250,000
16' X 25' Skiff Haul-Out Floats	1,200	\$65	\$78,000
10' X 16' Side Floats (adjacent to skiff Floats)	320	\$65	\$20,800
12' X 25' Sectional Floats	1,200	\$65	\$78,000
10' X 40' Walkway Floats	400	\$65	\$26,000
14' X 180' Steel Mooring & Breakwater Float	2,520	\$175	\$441,000
16" X 1/2" Galv Steel Piles, Furnished	720	\$70	\$50,400
16" X 1/2" Galv Steel Piles, Driven	9	\$4,000	\$36,000

20" X 1/2" Galv Steel Piles, Furnished	1,000	\$90	\$90,000
20" X 1/2" Galv Steel Piles, Driven	10	\$5,000	\$50,000
100 lb Anodes	19	\$1,000	\$19,000
Construction Item Totals			\$1,140,000
Contingencies @ 15%			\$171,000
Design & Permitting			\$175,000
Construction Engineering			\$175,000
Construction & Design Totals			\$1,661,000
ICAP @ 4.88%			\$81,057
Project total per AK DOT estimate by KDM 10/23/07 (with mathematical correction)			\$1,742,057
Cost increase in updated AK DOT estimate 1/21/09 by Kirk Miller per Irene Miller			\$257,943
Project Total			\$2,000,000

Please describe the project time-line and when expenditures will occur:

Preliminary Design: Complete

NEPA Documents: February, 2009

Final Design and Bid-ready Documents: May, 2009

Who will be responsible for providing the ongoing maintenance and operation costs?

The City of Gustavus will be assuming ownership and maintenance responsibility for the float facility, as acknowledged in Resolution 2008-13. The construction of the harbor is a joint effort with the State of Alaska’s Department of Transportation and Public Facilities, which is currently managing the replacement of the existing dock and trestle facility. Through this partnership, the State can take advantage of current projects to reduce mobilization costs, and the relatively “young” City of Gustavus can benefit from the State’s experience managing projects of this scope.

Maintenance costs for the float have increased vastly in recent history, due in large part to the decrepit state of the existing facility. An estimated \$2000 per year is spent relocating the floats seasonally, and this cost has been more than doubled by recent repairs to the aging facility. Within the last year the facility was damaged by high seas. The maintenance team took advantage of locally-available scrap for as much of the repair as possible, but still spent an estimated \$3,000 on bull rails and piling sleeves. The repairs did not stand up to the churning seas, and the facility has once again been hobbled together with scraps.

The replacement of the existing mooring facility reduces maintenance costs in two major ways. The new Breakwater Float provides a sturdy platform for mooring and breakwater protection to the timber mooring floats, reducing damage caused by rough weather. The new Breakwater Float also eliminates the need to move the timber mooring float seasonally. With regular maintenance, the life of the project is expected to be 50 years of service to the community. In addition to reduced maintenance costs, the proposed harbor facility increases utility by moving the facility out from shore and repositioning it so that boats with a deeper draft can utilize the facility.

Grant Recipient Contact Information:

Project Manager: John Scott, Project Manager

Address P.O. Box 112506

Juneau, AK 99811-2506

Phone: (907) 465-8413

Fax: (907) 465-4414

E mail:

Financial Manager: Pete Christensen, Finance Director

Address P.O. Box 112506

Juneau, AK 99811-2500

Phone: (907) 465-2065

Fax: (907) 465-4417

E mail: Peter.Christensen@alaska.gov

Has the project gone through a public review process at the local level and is it a community priority by resolution or other official action by the governing body?

(Y/N): Yes.

The community has provided the following support documents:

- City of Gustavus, Resolution 2008-13 in support of the facility, Appendix A
- National Park Service letter of support, Appendix B
- Public support, Appendix C