				Reference No:			36188
AP/AL: Allo	ocation	Project Type: Construction					
Category:	Transportation						
Location: Statewide				House District: Statewide (HD 1-40)			
Impact House District: Statewide (HD 1-40)				Contact: Mike Vigue			
Estimated Project Dates: 07/01/2016 - 06/30/2021				Contact Phone: (907)465-4070			
Appropriati	on: Surface Tra	nsportation P	rogram				
Brief Summ	nary and Staten	nent of Need		1.4 1			
Structural er	nhancements to	bridges that a	ire determin	ed to be s	eismically vuln	erable in ea	rthquake
ZONES.	EV2017	EV2019	EV2010	EV2020	EV2021	EV2022	Total
Tunding:	$-\frac{F12017}{$000,000}$	<u> </u>	F12019	F 1 2020	F12021	<u> </u>	
Rcpts	φ2,000,000						\$2,000,000
Total:	\$2,000,000	\$0	\$0	\$0	\$0	\$0	\$2,000,000
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State Match Required Done-Time Project Donased				- new	Phased - und	erway 🔽 Or	n-Going
9% = Minimum State Match % Required				ment	Mental Healt	h Bill	
Operating & Maintenance Costs:					Amc	ount	<u>Staff</u>
Project Devel				opment:		0	0
			Onaoina On	eratina:		0	0

One-Time Startup:

Totals:

FY2017 Request:

\$2,000,000

0

Prior Funding History / Additional Information:

Statewide - Seismic Retrofit - Bridges

Sec1 Ch5 SLA2011 P116 L25 SB46 \$2,000,000 Sec7 Ch43 SLA2010 P52 L30 SB230 \$2,000,000

Project Description/Justification:

Alaska is one of the most seismically active regions of the world. Bridges are quite vulnerable to earthquake induced ground motions and forces. Severe bridge damage and collapse seem to accompany every major earthquake around the world. Bridges constructed prior to the early 1990's are particularly vulnerable to significant damage. Seismic retrofitting is eligible for Highway Bridge Rehabilitation and Replacement Program funds for all bridges according to the Federal Highway Administration.

Phase 2 of this program identifies vulnerable bridges. Our bi-annual inspection program is used to determine the most vulnerable and critical bridges for seismic retrofit (strengthening). Vulnerability is based on structural details and proximity to known earthquake faults. Critical bridges are identified based on traffic demands, available detours, and bridge length. Retrofits typically include devices to keep beams from falling from their supports. In some cases, bridge column and abutment forces are reduced by installing special shock absorbing and isolation devices.

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