



SAFETY CORRIDORS AUDIT 2022

STATE OF ALASKA

Department of Transportation and Public Facilities

Department of Public Safety

Accepted: Ryan Anderson, Commissioner, DOT&PF ^{DS}

Date: 4/06/2023

Accepted: James E. Cockrell, Commissioner, DPS

Reviewed: Wolfgang Junge P.E., Regional Director, DOT&PF

Reviewed: Colonel Maurice Hughes, Director, AST ^{M.I.H.}

From: Safety Corridor Review Team (staff tasked with coordination, countermeasures)

Tammy Kramer, Administrator, Alaska Highway Safety Office AHSO, DOT&PF HQ Juneau ^{TK}

Capt. Rick Roberts, DPS Commissioner's Staff ^{R.R.R.}

Matt Walker, P.E., State Traffic & Safety Engineer, DOT&PF HQ Juneau ^{M.W.}

Scott Thomas, P.E., Central Region Traffic & Safety Engineer, DOT&PF ST

PURPOSE: Rural Safety Corridors – Audit through 2022

Review lead agency efforts to reduce fatal and major injury crashes¹. Coordinate countermeasures². Gather field input from Central EMS, AST Detachments, and M&O Districts.

2006-2022 RESULTS: Severe crashes declined by -35% overall since Safety Corridors begun.

- Fatal crashes overall have declined only -16%, and have **increased** on KGB and Seward Hwys.
- Serious injury crash reductions of -40% are lessening over time.
- Serious crashes are highest in December.
- Statewide crash data reporting has significantly improved, available just over 1 year later.

SAFETY CORRIDORS STATUS. Divided Hwy design/construction underway on 3 of 4 corridors.

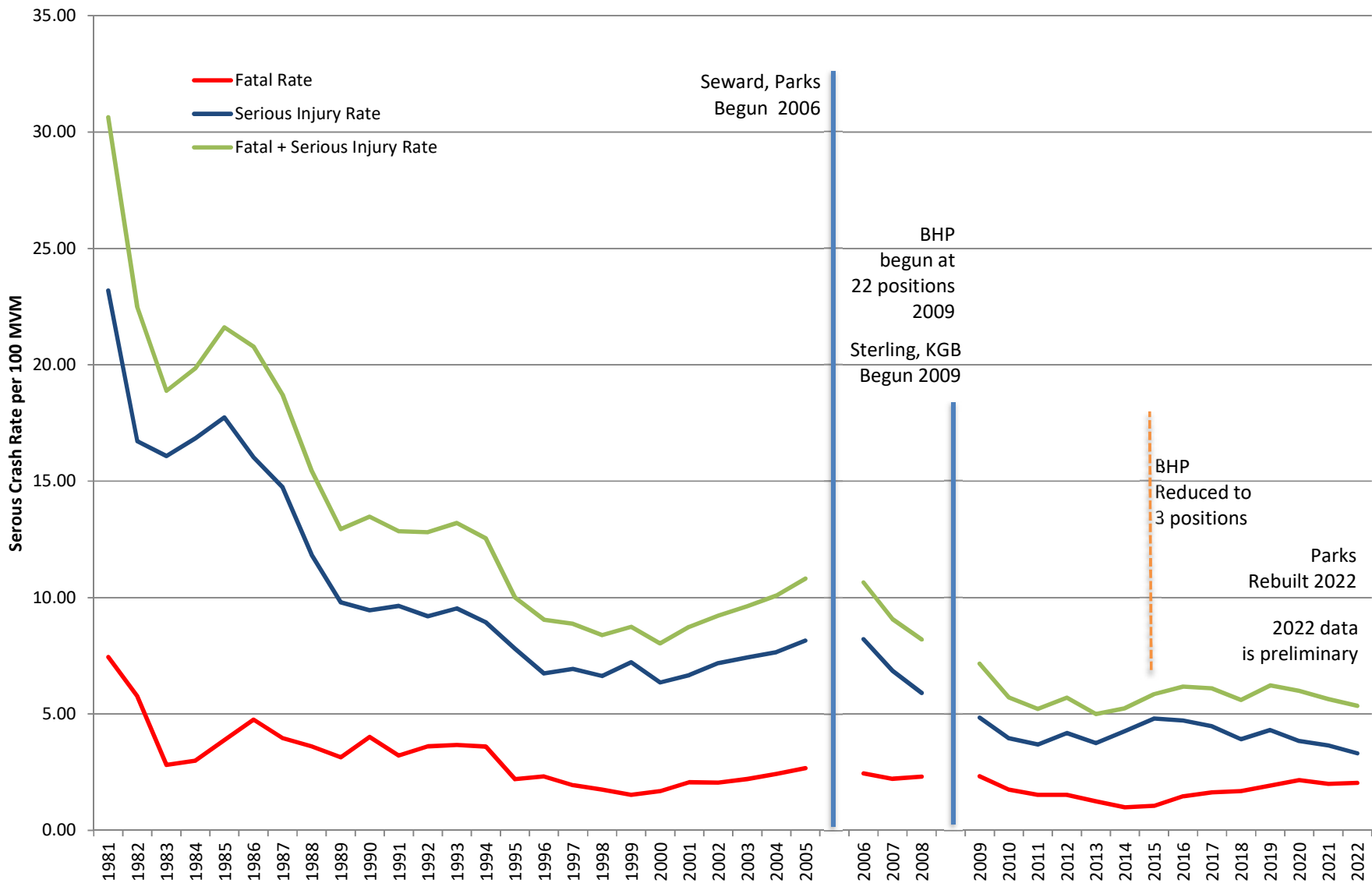
- Parks Hwy – 1st decommissioned Corridor, Fall 2022, when divided highway was completed.
- Seward Hwy – Partially decommissioned MP 87-90 with reconstruction. Work underway to north.
- KGB Road – Phase I construction begun in 2022 for divided highway from MP 1-4.
- Sterling Hwy – Design of divided highway is underway with ongoing community discussion.
- Bureau of Highway Patrol (BHP) staffing down to 3 in 2015, was 22 full time officers in 2010.
- Municipal policing of the Seward Highway since 2018 has replaced BHP efforts.
- BHP staff reductions show an apparent correlation to serious and fatal crash increases.
- DOT&PF winter maintenance needs are important as winter crashes continue to be higher.

RECOMMENDATIONS. Collaborate across agencies to reduce severe crashes.

- Decommission Safety Corridors when divided highway and other permanent changes take effect.
- Seek funding for more near term education and enforcement. Target unsafe driving actions.
- Maintain and explore local enforcement partnerships in Safety Corridors adjacent to communities.
- Seek options to “increase” DOT&PF winter maintenance resources for Safety Corridors.
- Update future Safety Corridors candidate rankings. Evaluate Urban Safety Corridors potential.

cc: Sandra Garcia-Aline, FHWA Division Administrator, Alaska Division, Juneau

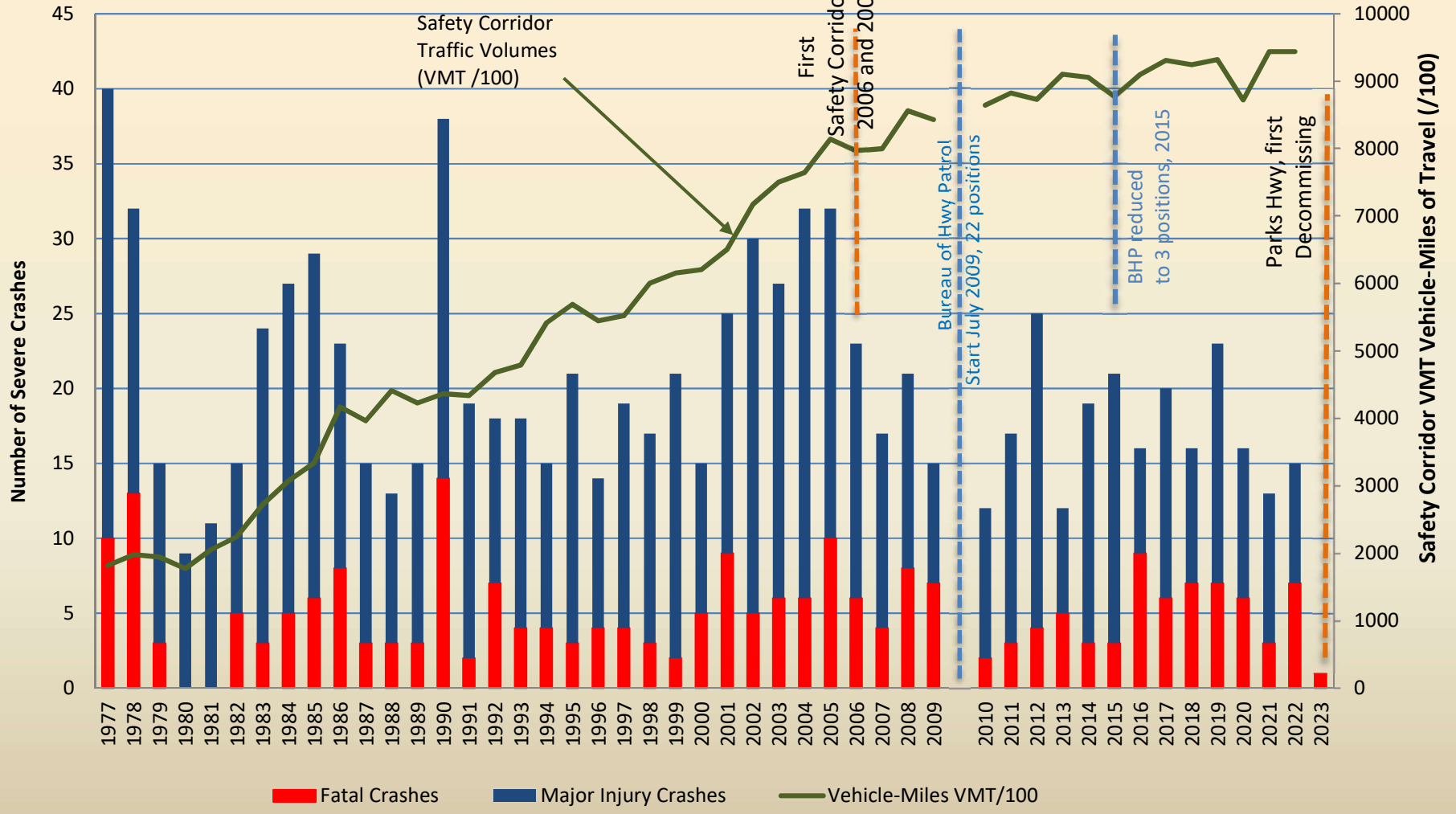
Safety Corridors: Fatal & Serious Crashes by RATES (5 year rolling average)



Traffic Safety Corridors Combined

Fatal & Serious Injury Crashes by NUMBER per YEAR: 1977-2022

(2022 reported serious injury crashes (blue) are preliminary and incomplete)



FATAL & SERIOUS INJURY								
Safety Corridor	Length	Before		After		Safety Corridor	Avg Reduction	
		Fatal, Major Injury per Year	Fatal, Major Injury Crashes per HMVM	Fatal, Major Injury per Year	Fatal, Major Injury Crashes per HMVM			
Seward	30.56	8.9	9.36	5.24	4.97	Seward		
				41.4%	47.0%		44%	
Parks	8.47	6.21	13.61	3.76	6.41	Parks		
				39.4%	52.9%		46%	
KGB	16.4	5.24	5.09	5.18	4.12	KGB		
				1.1%	19.1%		10%	
Sterling	9.8	2.76	8.56	1.70	4.89	Sterling		
				38.3%	42.8%		41%	
	65.23							
							Overall	35%

WEIGHTED TOTAL -35%

HMVM = rate of crashes per hundred million vehicle miles of travel. This helps compare all roads equally.

END NOTES

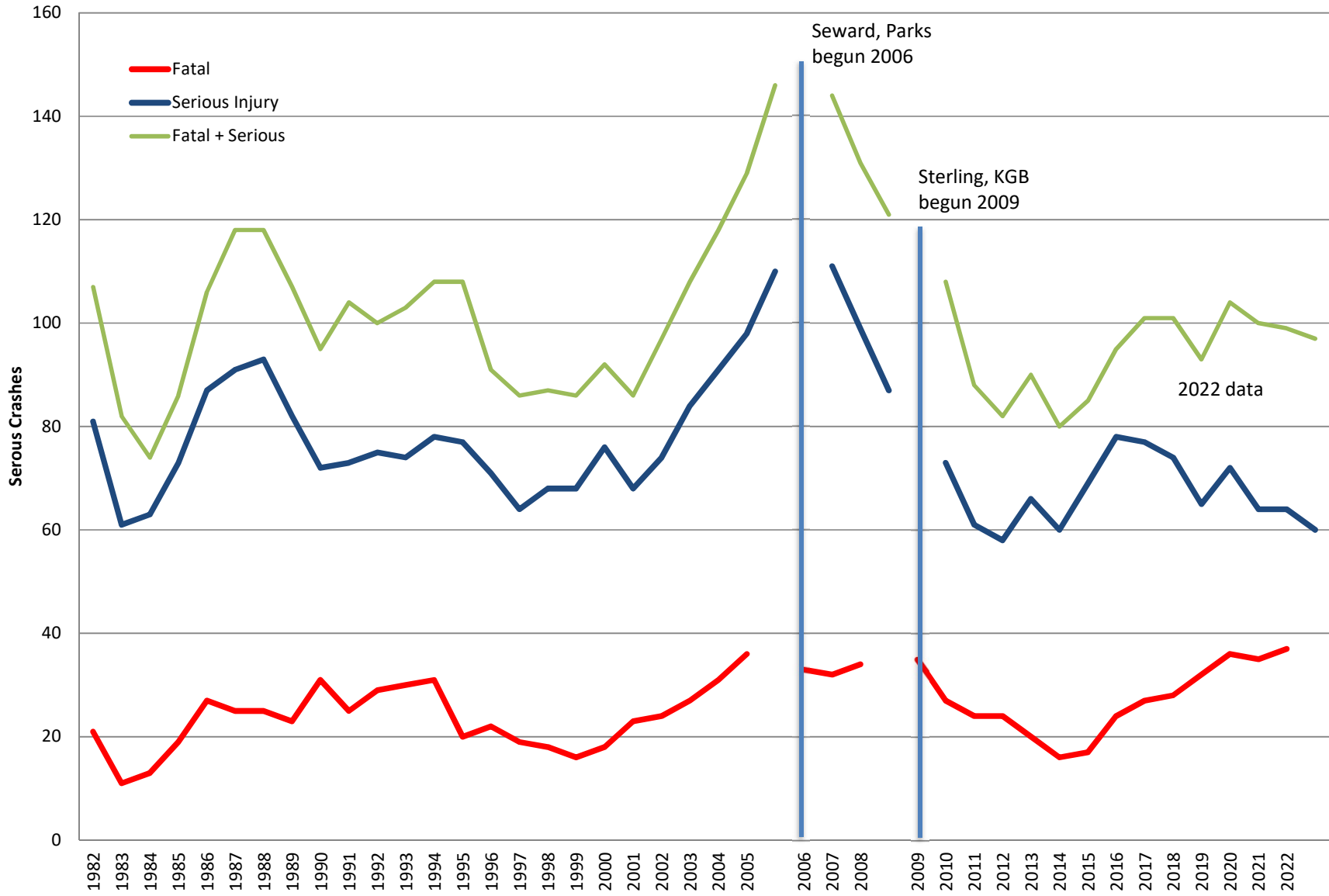
¹ The purpose of this report and any attached data is for planning safety enhancements for high crash corridors with serious injury crashes. This report is used to monitor, develop, and fund ongoing education, enforcement, and engineering of construction improvements.

² Per AS 19.10.075, DOT&PF and DPS are responsible for designating Safety Corridors and efforts to reduce serious and fatal crashes (ATM 2B.17). Candidates for Safety Corridor Designation have disproportionately high fatal and serious injury crashes and are often at or near capacity for traffic volumes. Permanent and lasting corridor reconstruction projects are desirable to address traffic volume growth (see attached project lists). Until corridors can be reconstructed, interim enforcement, education, and smaller targeted engineering solutions are recommended to reduce crashes.

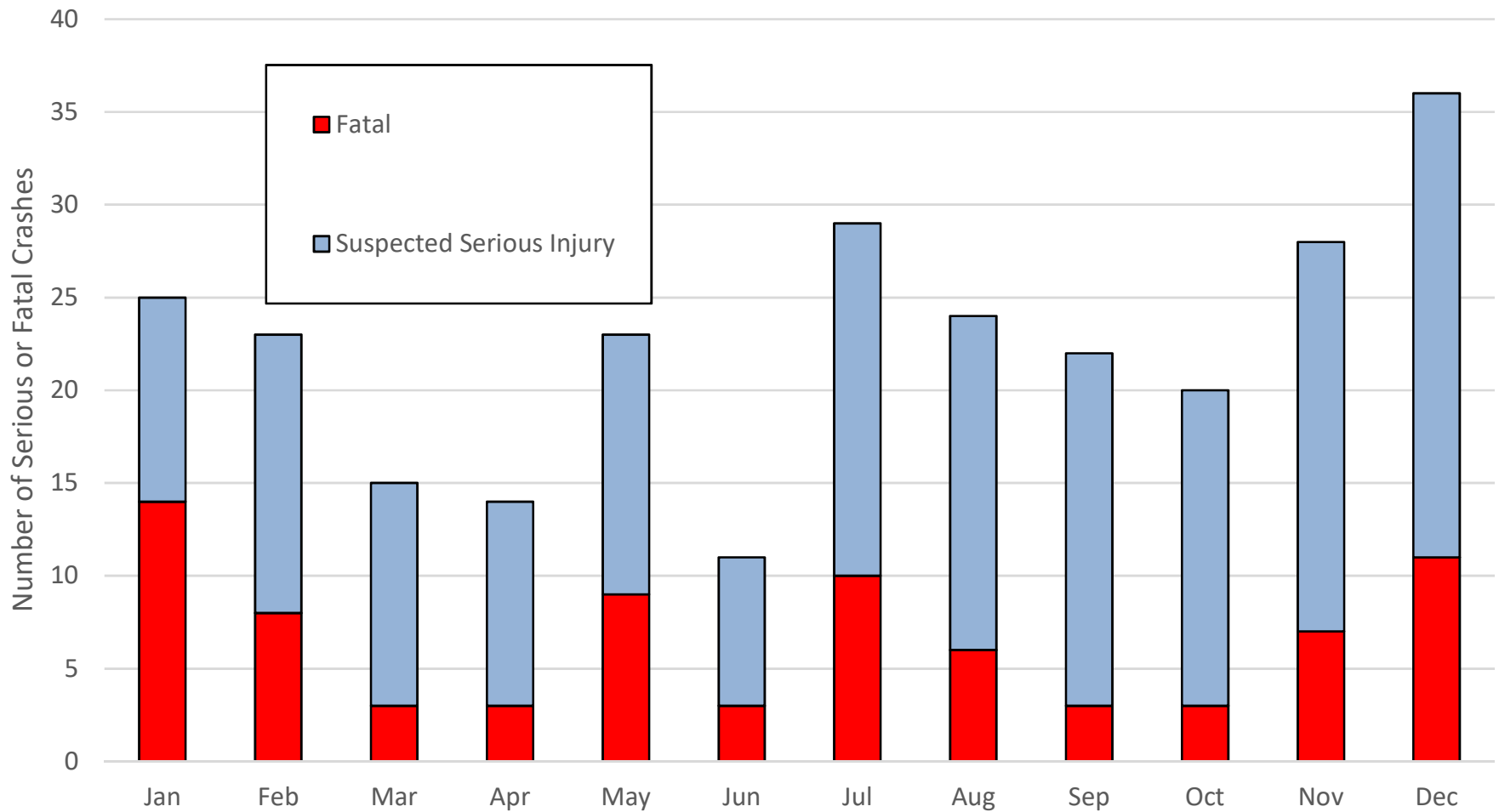
³ Fatal and serious injury crashes in most recent years are based on incomplete Dispatch and fatal reporting information still in process. Final crash records for 2022 may change as later year's final record becomes complete.

⁴ Fatal crashes are very small data sample in each corridor, each year. They can be a volatile indicator of performance. Combining fatal and serious injury crashes is recommended as a larger data set and indicator of performance. Many factors affect the severity of a crash and make the two categories very similar if not for one factor, could be fatal otherwise. These factors include roadway geometrics, road conditions, seatbelt use, impairment, fatigue, aggressive driving, vehicle type, and even emergency response resources.

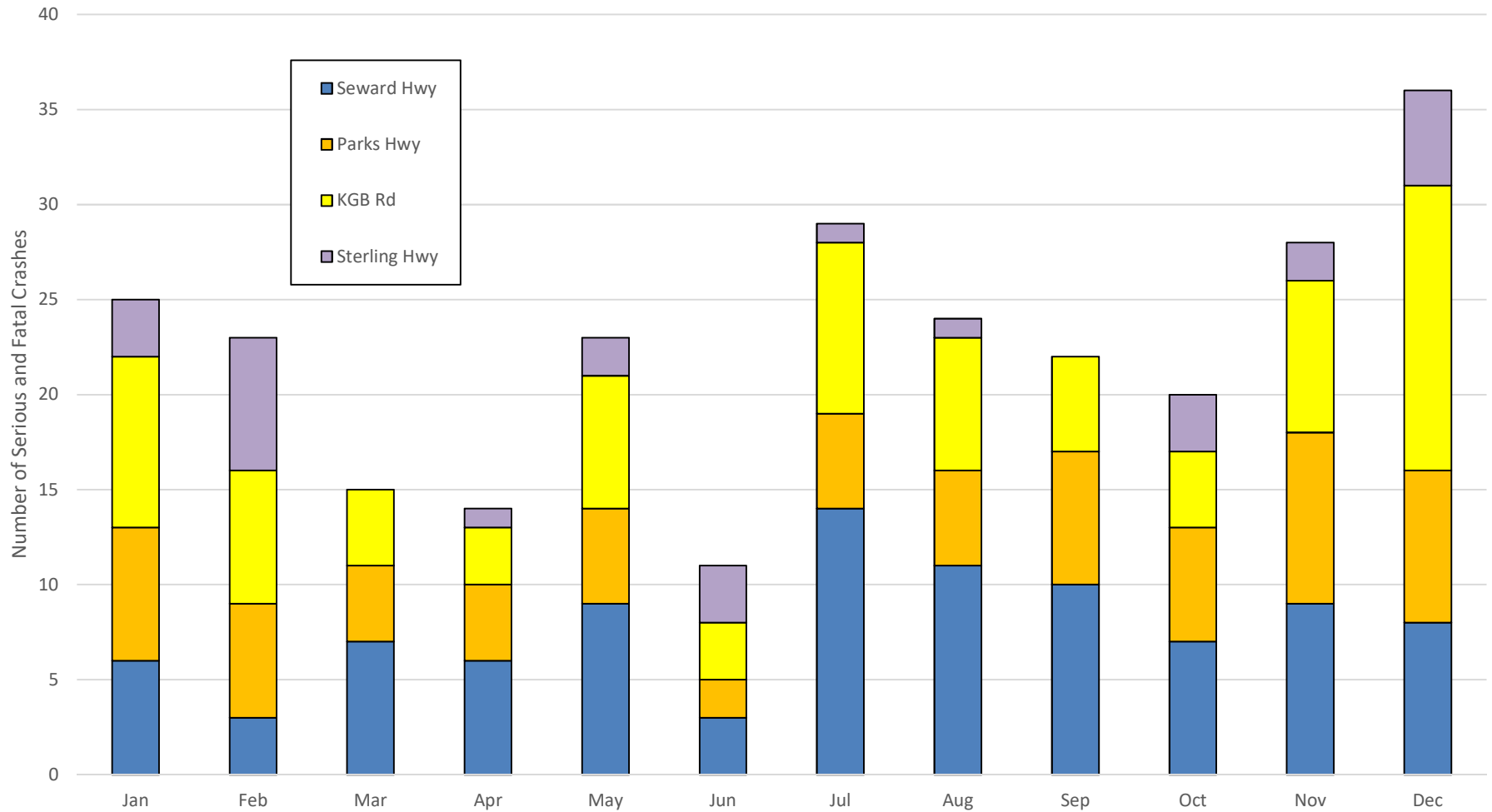
Safety Corridors: Serious Crashes (5 year rolling average)



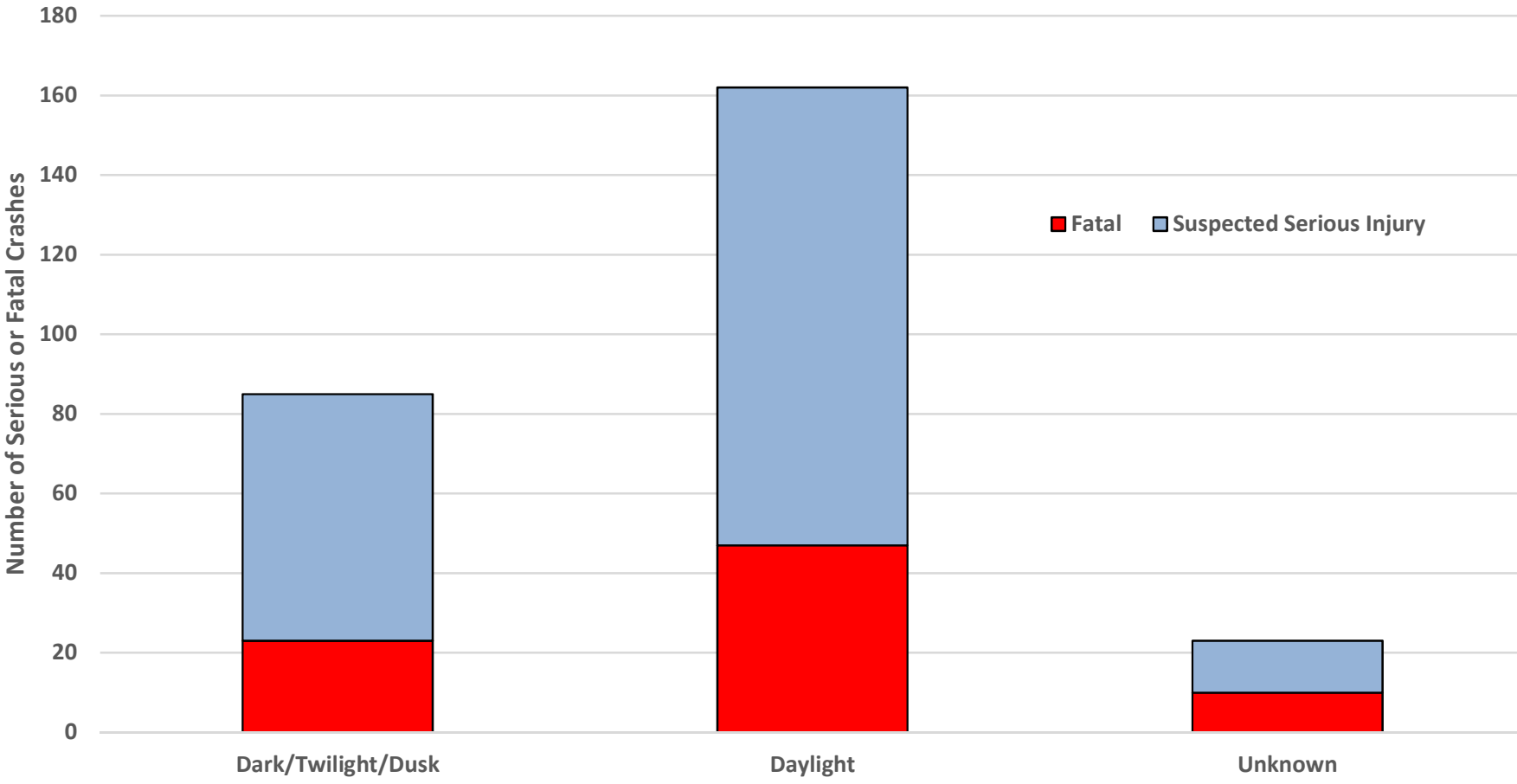
Months with Fatal and Serious Injury Crashes since Safety Corridors Designated (2006-2022)



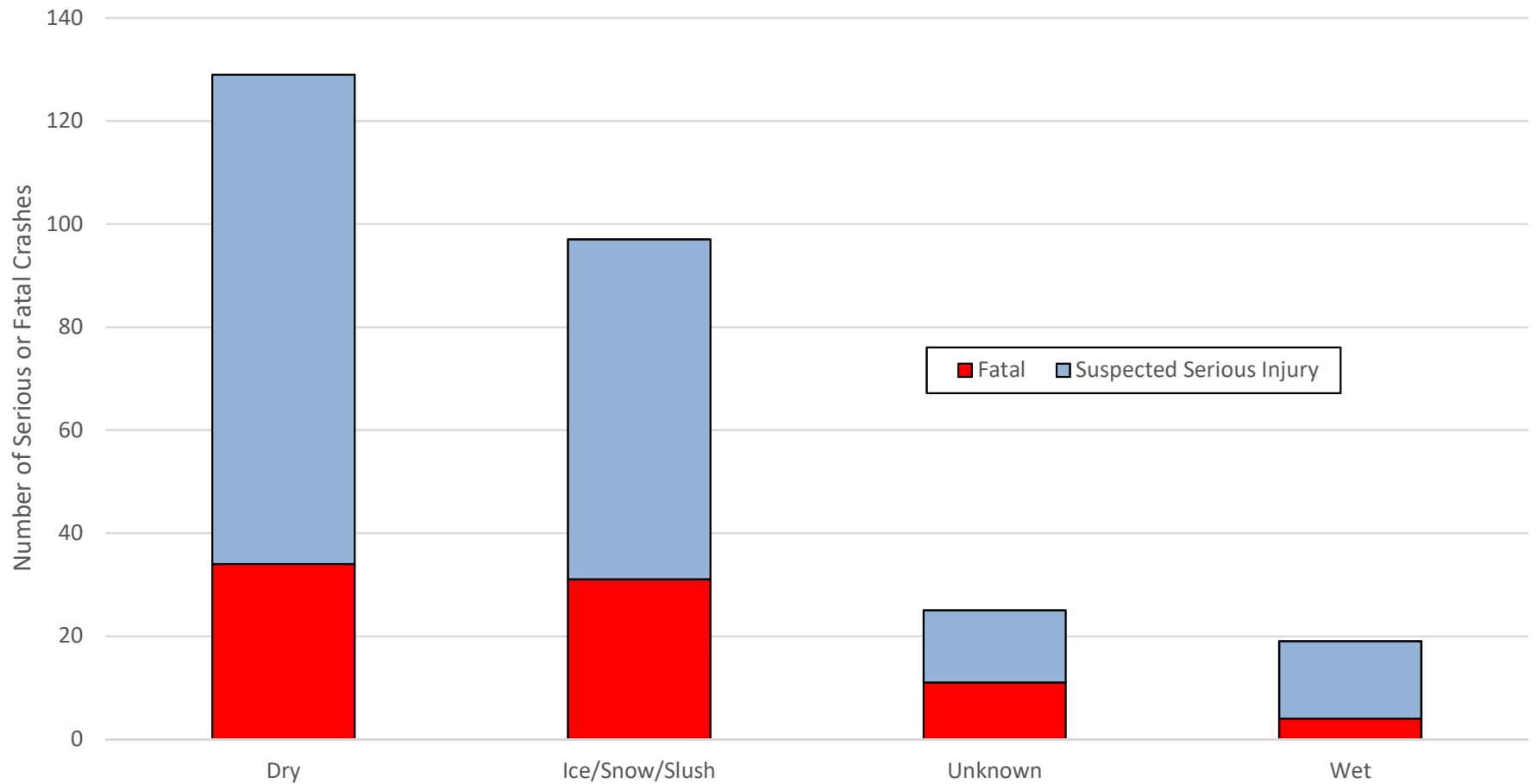
Months with Serious and Fatal Crashes since Safety Corridor Designations (2006-2022)



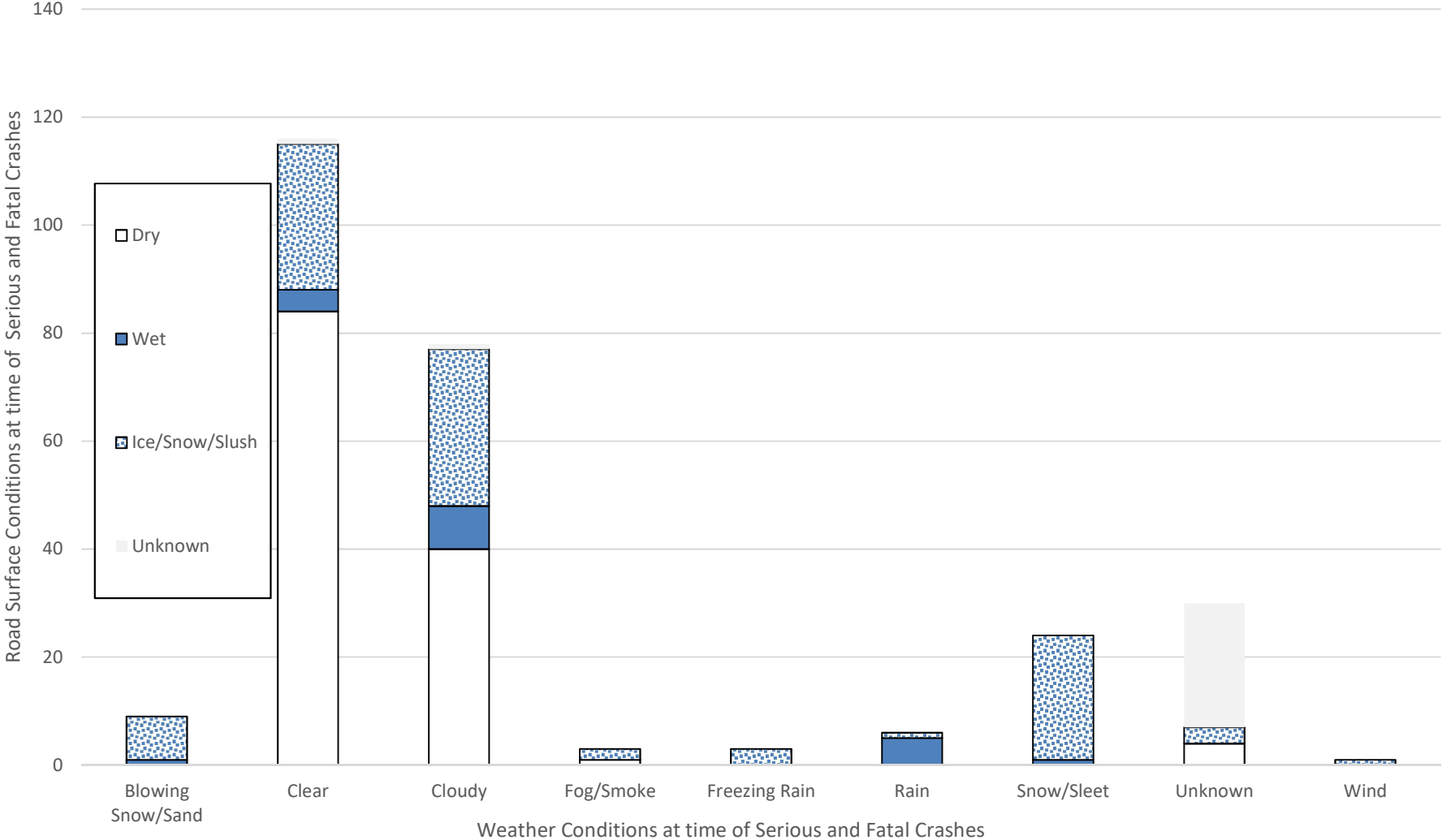
Light Conditions during Serious and Fatal Crashes in Designated Safety Corridors (2006-2022)



Road Surface Conditions during Serious and Fatal Crashes in Designated Safety Corridors (2006-2022)



Road Surface Conditions + Weather at time of Serious and Fatal Crashes in Safety Corridor Designations (2006-2022)



2022 SAFETY CORRIDORS AUDIT
SERIOUS AND FATAL CRASH MAPS, CHARTS
SINCE DESIGNATION

SEWARD HWY MP 87-117 (2006-2022)

PARKS HWY MP 44.5-53 (2006-2022)

KNIK-GOOSE BAY RD MP 0.6-17.2 (2009-2022)

STERLING HWY MP 83-93 (2009-2022)

2022 Safety Corridors Audit Budget Summary

DOT&PF Central Region Safety Corridors: Capital projects budgeting review and estimates

04/06/23

Safety Corridor (Mileposts)	Corridor Length (mi)	Expended since Safety Corridor Designation	Planned Future Funding	Future funding need [FY24+]	Total Funding Goals from 2006 forward	Investment plan per mile (average)	Future funding need per mile (average)	Median Barrier estimate full length*		4 Lane Divided Highway Conceptual Cost Estimate**	Notes
								Barrier and Crash Cushions only, Design, Constr, Traffic Control	Barrier, Crash Cushions plus typical inland shoulder width buffers		
								LOW	HIGH		
Seward Hwy MP 87-117 Girdwood-Anchorage (Currently Designated MP 90-117)	30.6	\$101,286,762	\$45,341,250	(\$708,510,000)	\$855,138,012	\$27,945,687	(\$23,153,922)	\$61,200,000	\$443,700,000	\$1,530,000,000	Currently alt 3 lane pattern
Parks Hwy MP 44-52.5 Wasilla-Houston (Decommissioned)	8.2	\$119,646,619	\$2,000,000	\$0	\$121,646,619	\$14,834,953	\$0	Now median Divided Hwy			Completed divided hwy w/signals
Knik-Goose Bay Rd MP 0.6-17.2 Wasilla-Settler's Bay	16.4	\$9,557,000	\$111,176,000	(\$139,200,000)	\$259,933,000	\$15,849,573	(\$8,487,805)	\$32,800,000	\$114,800,000	\$328,000,000	Finalizing Design. First 3 miles already under construction as divided hwy.
Sterling Hwy MP 83-93 Soldotna-Sterling	9.8	\$13,056,478	\$92,770,770	(\$76,900,000)	\$182,727,248	\$18,645,638	(\$7,846,939)	\$19,600,000	\$68,600,000	\$196,000,000	In Design for divided highway
<i>TOTAL / Average</i>	<i>65</i>	<i>\$243,546,859</i>	<i>\$251,288,020</i>	<i>(\$924,610,000)</i>	<i>\$1,419,444,879</i>	<i>\$21,837,614</i>	<i>(\$14,224,769)</i>	<i>\$113,600,000</i>	<i>\$627,100,000</i>	<i>\$2,054,000,000</i>	
								*Prefab costs \$400,000 per mile. Up to \$1M/mile with haul plus added factors for permanent crash cushions at 1/2 mile breaks, designing end locations, pinning to surface, work zone admin, contracting, and extensive traffic control for placement.		**Simplified lane mile estimate at \$20M per mile to create center median and 4 lanes. Add 2.5X for Seward Hwy mountainous terrain with rockslope blasting.	
								*Estimate at \$5M per mile of shoulder to create center buffer or pad/shy for barrier. Add 2.5X for Seward Hwy mountainous terrain with rockslope blasting.			



SEWARD HIGHWAY Safety Corridor MP 90-117

PAST AND ONGOING SAFETY IMPROVEMENTS

2006-2022 SERIOUS INJURY AND FATAL CRASHES

HSIP Safety Corridor Audit
Map Revised 3/11/2023

Crash #'s skipped for those not shown outside of Safety Corridor
Traffic volumes double in summer

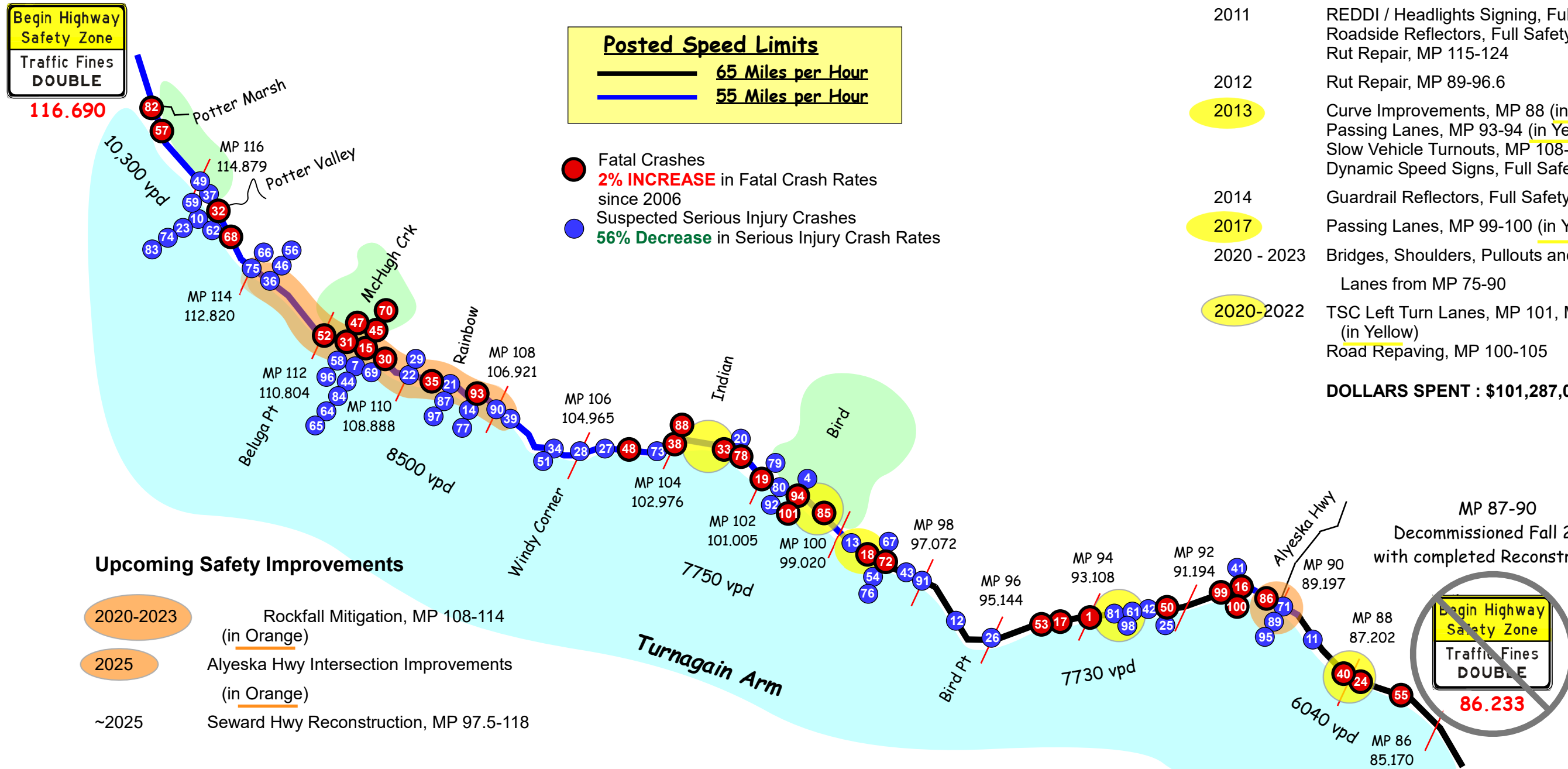
Safety Corridor
Designated July 1, 2006
MP 87-90 Decommissioned Fall 2021



Posted Speed Limits

———— 65 Miles per Hour
———— 55 Miles per Hour

- Fatal Crashes
2% INCREASE in Fatal Crash Rates since 2006
- Suspected Serious Injury Crashes
56% DECREASE in Serious Injury Crash Rates



Completed Safety Improvements

- 2006 Traffic Safety Corridor (TSC) Designation: 1400' N of Alyeska Hwy to 1000' N of Potter Rifle Range
Double Fines Signs, Full Safety Corridor
- 2007 TSC Extended from 1400' N of Alyeska Hwy to 200' N of MP 87
- 2008 Rut Repair, MP 104 to MP 115
- 2010 Centerline Rumble Strips, Full Safety Corridor
- 2011 REDDI / Headlights Signing, Full Safety Corridor
Roadside Reflectors, Full Safety Corridor
Rut Repair, MP 115-124
- 2012 Rut Repair, MP 89-96.6
- 2013** Curve Improvements, MP 88 (in Yellow)
Passing Lanes, MP 93-94 (in Yellow)
Slow Vehicle Turnouts, MP 108-115
Dynamic Speed Signs, Full Safety Corridor
- 2014 Guardrail Reflectors, Full Safety Corridor
- 2017** Passing Lanes, MP 99-100 (in Yellow)
- 2020 - 2023 Bridges, Shoulders, Pullouts and Passing Lanes from MP 75-90
- 2020-2022** TSC Left Turn Lanes, MP 101, MP 103 (in Yellow)
Road Repaving, MP 100-105

DOLLARS SPENT : \$101,287,000

Upcoming Safety Improvements

- 2020-2023** Rockfall Mitigation, MP 108-114 (in Orange)
- 2025** Alyeska Hwy Intersection Improvements (in Orange)
- ~2025** Seward Hwy Reconstruction, MP 97.5-118

DOLLARS IN-PROGRESS : \$45,341,000

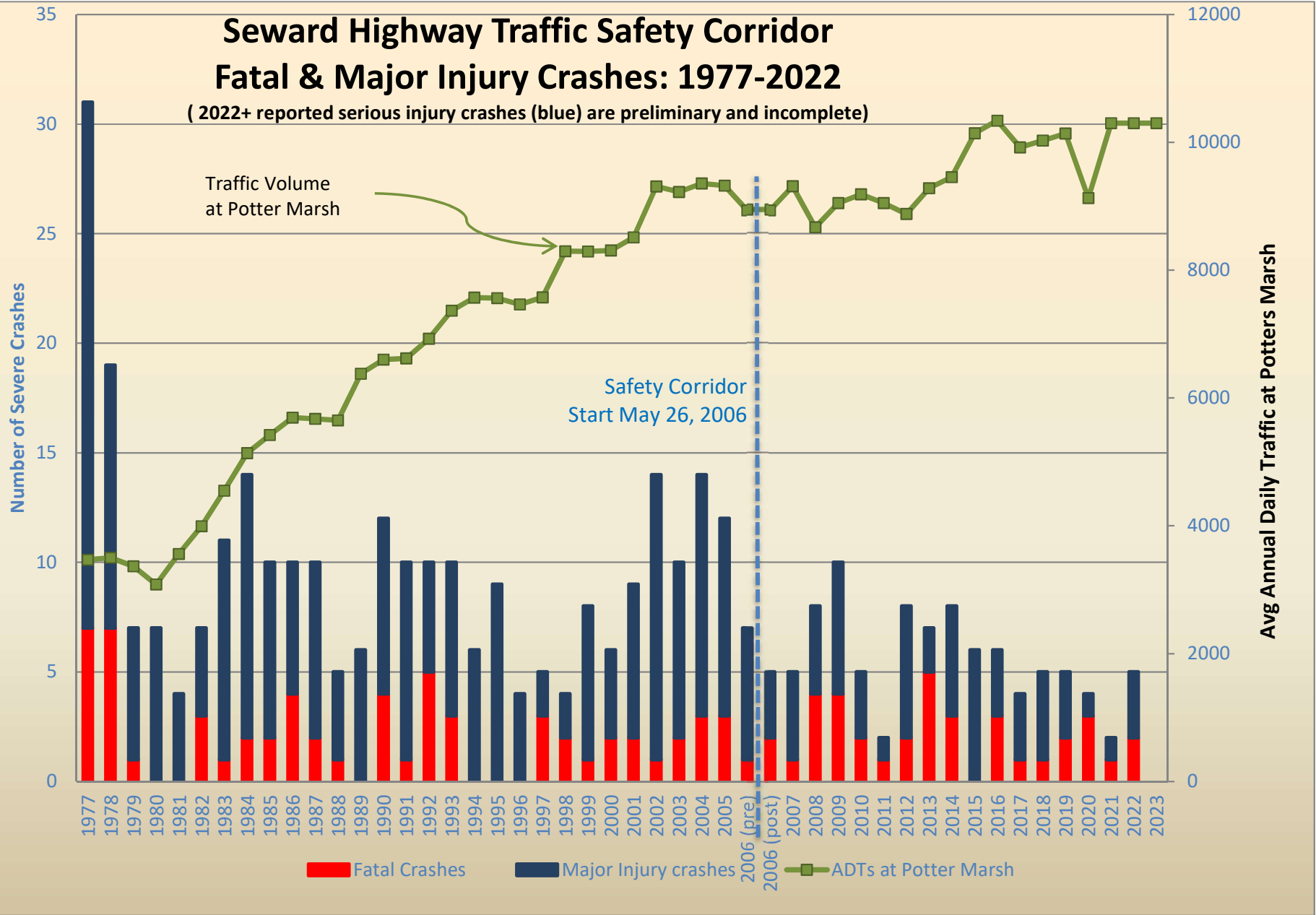
FUTURE FUNDING NEEDS: \$708,510,000

MP 87-90
Decommissioned Fall 2021
with completed Reconstruction

Begin Highway Safety Zone
Traffic Fines **DOUBLE**
86.233

Seward Highway Traffic Safety Corridor Fatal & Major Injury Crashes: 1977-2022

(2022+ reported serious injury crashes (blue) are preliminary and incomplete)



Seward Hwy Safety Corridor - DOT&PF Improvements since Designation May 26, 2006

03/28/23

AKSAS	Project	Scope	Solution	Funding Source Identified through STIP, GF	Future funding need [FY24+]	Construction
						Year (Est)
51218	HSIP MP 104-115 Seward Hwy Rut Repair	Hwy Safety Improvement Project: Rut repair, overlay to reduce head-on, SVROR crashes	Completed	\$7,013,000	\$0	2008
51047	HSIP Central Region Rumble Strips, Phase II	Hwy Safety Improvement Centerline/shoulder rumble strips to reduce head-on, SVROR crashes	Completed	\$315,000	\$0	2010
59838	HSIP Small SPOT Improvements	Signing for headlights, REDDI, Mileposts	Completed	\$83,000	\$0	2011 Construction w/NHS Delin
51289	HSIP NHS Delineation	Curves, guardrail, roadside delineation, signing consistency on Parks, Glenn, Seward, Sterling Hwys.	Completed	\$100,000	\$0	2011
52223	ITS Seward Hwy 2009	DMS Sign upgrades to LEDs at Potters Marsh	Completed	\$90,000	\$0	2011 Constr w/CR Signal Upgrades
52491	Seward Hwy Rut Repair MP 115-124 (MP 104-117 in Safety Corridor)	Potter Valley Rd to Dowling Rd Paving and Guardrail	Completed	\$3,214,000	\$0	2011
52991	Seward Hwy MP 89-96.6 Resurfacing	Girdwood to Bird. Repaving, signing, striping, guardrail replacement.	Completed	\$8,980,000	\$0	2012
52121	HSIP MP 88 Curve Improvements	Guardrail removal, slope flattening	Completed	\$1,165,011	\$0	2013
52451	HSIP Passing Lanes, Slow Vehicle Turnouts (Minor fill work)	NB passing lanes Ph I, Bertha Crk to Anchorage. Up to 17 opportunities.	Completed	\$12,830,529	\$0	2013
53425	GF ITS Safety Corridors: Seward Hwy Speed Signs	Dynamic speed signs, power service and pads.	Completed	\$1,071,924	\$0	2013
55750	HSIP CR Guardrail Delineation Enhancements	Upgrades to high intensity web reflectors and to post top delineators on coasts	Completed	\$288,894	\$0	2014
58822	MP 99-100 Bird Pt - Bird	NB Bird Point to Bird Passing lanes (HSIP)	Completed	\$9,244,992	\$0	2017
54250	Seward Hwy MP 90-117 Route Development Plan	Reconn Report. Long term vision for Seward Hwy	Short Term	\$178,000	\$0	2017
CFHWY 00212	Ph I: MP 75-90 Rehabilitation	Rehabilitation, pullouts, new bridges, passing lanes. Phase II is S of MP 87	Now	\$22,161,525	0	2018-2022
57088	HSIP Traffic Safety Corridors Left Turn Lanes	Left turn lanes - Bird (Sawmill Rd) & Indian (Boretide Rd) Build w/Ph I MP99-100	Now	\$3,840,887	0	2020-2021
CFHWY 00011	MP 100-105 Bird - Indian	Bird to Indian Rehabilitation	Now	\$30,710,000	0	2020-2021
CDRER006 92	Rockfall 2018 Earthquake Emergency restoration	Bolting, mesh, 2 sites - MP_107.95,109.5	Now	\$618,250	\$0	2020 thru 2023
CSHWY006 96	Rockfall Emergency Mitigation	Sealing, bolting, attenuators, 4 sites - MP_106.8,109.95,110.5,112.27	Now	\$675,000	\$0	2020 thru 2023
CFHWY004 14	HSIP Seward Hwy Rockfall Mitigation	Sealing, bolting, fencing - 7 sites: MP_104.7, 109.4,109.6,110.5,111.3,113.6,113.9	Short Term	\$20,000,000	\$0	2020 thru 2023
CFHWY008 88	Beluga PT Diagnostic Team Study	Joint Agency review of pedestrian crossing to shoreline at Beluga Pt	Short Term	Overhead	0	Unknown
59675	Seward Hwy MP 90-117 Right of Way Study	ROW Survey, as-built, and Agreement to support Seward Hwy future work	Medium Term	\$899,000	\$0	2022+
56631	Seward Hwy: MP 98.5-118 Transportation X project (Expanded Scope from Windy Comer)	Plan and analyze impacts for segments of the Seward Hwy. Reducing the time required to obtain environmental approval.	Medium Term	\$19,949,000	(\$677,510,000)	2022+
54619 / CFHWY010 63	Safety Corridors: Alyeska JCT Intersection Improvements (GF +)	Construct a divided highway intersection	Medium Term	\$3,200,000	(\$31,000,000)	2023+
				\$146,628,012	(\$708,510,000)	TOTAL

Short Term = Interim Improvements 1-2 years

Medium Term = Permanent Improvements within 1-3 years in STIP

Long Term = Beyond committed or certain STIP funds, funds uncertain

Completed since Safety Corridor	\$101,286,762
In Design	\$24,048,000
Under Construction	\$21,293,250

SAFETY CORRIDOR EXPECTED DECOMMISSIONING PLAN: (for segments as road upgrades occur)

MP 87-90	Decommissioned with MP 87-90 Curve improvements	2021
MP 90-99	Decommission with HSIP passing lanes completed, after Alyeska JCT Project 54619	2024+
MP 99-100	Decommission with HSIP passing lanes completed, after Alyeska JCT Project 54619	2024+
MP 98.5-118	Decommission with Reconstruction Project 56631	2025+



PARKS HIGHWAY MP 44-52 Safety Corridor

PAST AND ONGOING SAFETY IMPROVEMENTS

2006-2022 SERIOUS INJURY AND FATAL CRASHES

Safety Corridor Designated
October 16, 2006
Decommissioned November 10, 2022

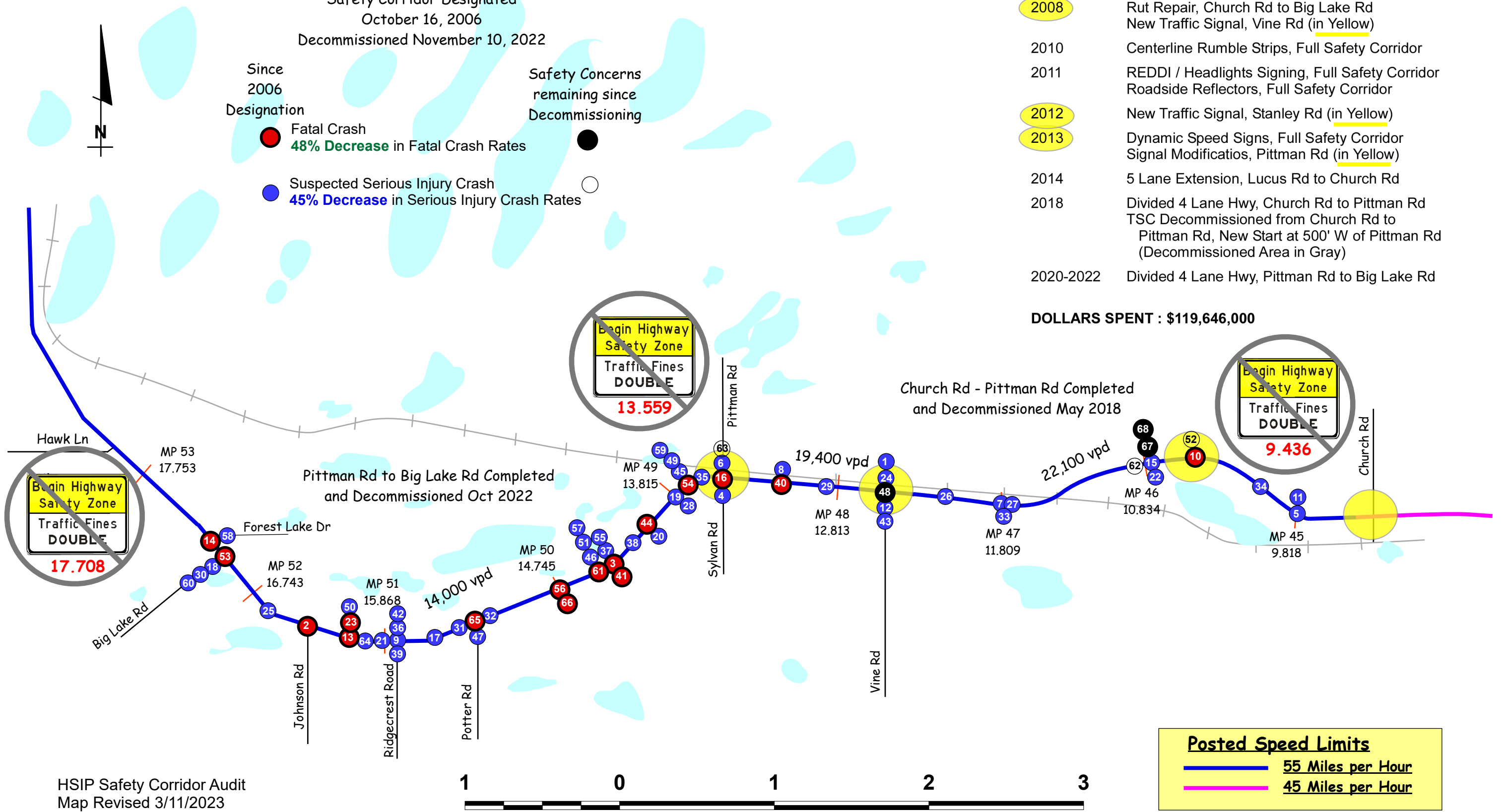
Since 2006 Designation
 ● Fatal Crash
48% Decrease in Fatal Crash Rates
 ● Suspected Serious Injury Crash
45% Decrease in Serious Injury Crash Rates

Safety Concerns remaining since Decommissioning

Completed Safety Improvements

- 2006 Traffic Safety Corridor (TSC) Designation: 600' W of Church Rd to 500' W of Larae Rd Double Fines Signs, Full Safety Corridor
- 2008 Rut Repair, Church Rd to Big Lake Rd New Traffic Signal, Vine Rd (in Yellow)
- 2010 Centerline Rumble Strips, Full Safety Corridor
- 2011 REDDI / Headlights Signing, Full Safety Corridor Roadside Reflectors, Full Safety Corridor
- 2012 New Traffic Signal, Stanley Rd (in Yellow)
- 2013 Dynamic Speed Signs, Full Safety Corridor Signal Modifications, Pittman Rd (in Yellow)
- 2014 5 Lane Extension, Lucus Rd to Church Rd
- 2018 Divided 4 Lane Hwy, Church Rd to Pittman Rd TSC Decommissioned from Church Rd to Pittman Rd, New Start at 500' W of Pittman Rd (Decommissioned Area in Gray)
- 2020-2022 Divided 4 Lane Hwy, Pittman Rd to Big Lake Rd

DOLLARS SPENT : \$119,646,000



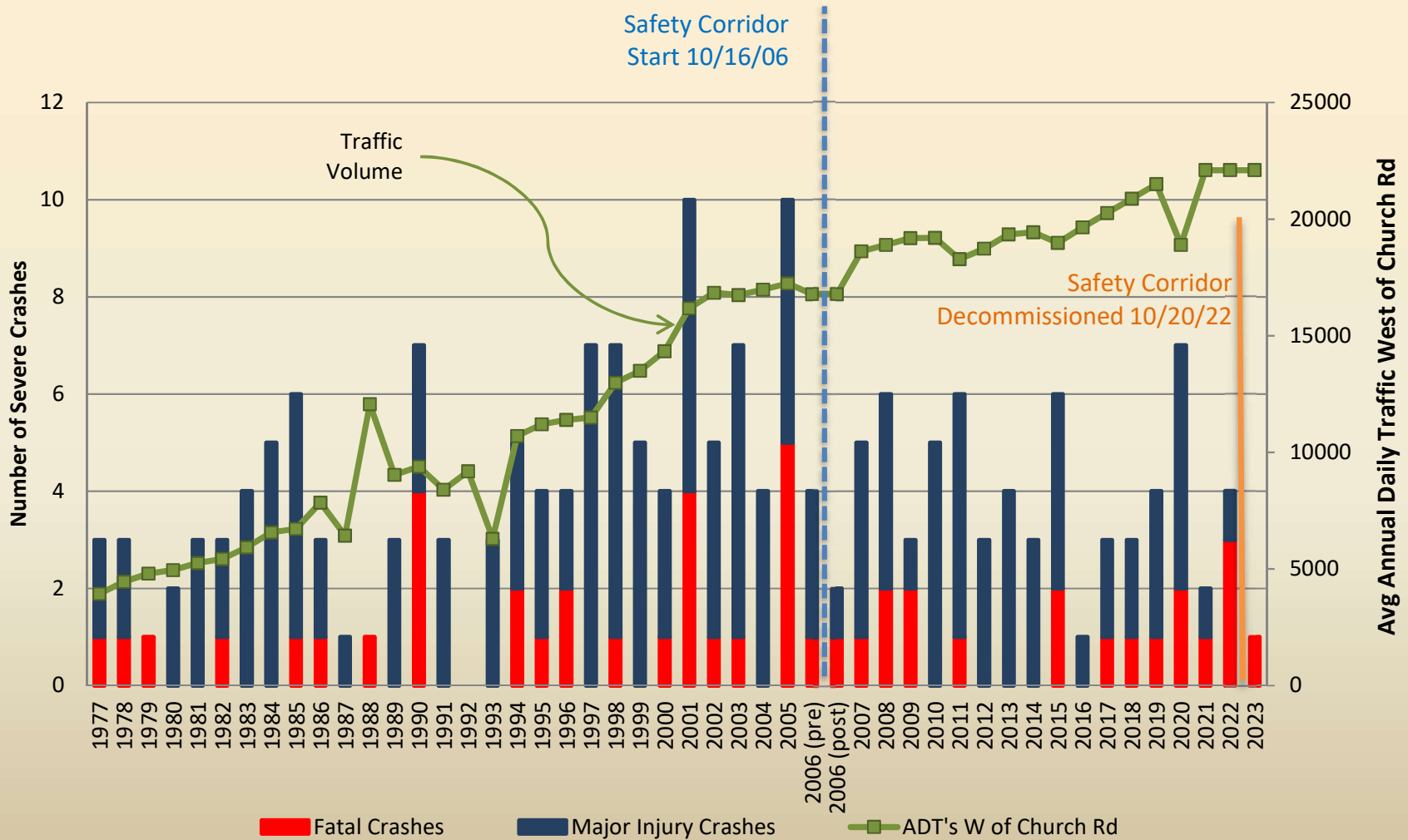
Posted Speed Limits

- 55 Miles per Hour
- 45 Miles per Hour

HSIP Safety Corridor Audit
Map Revised 3/11/2023

Parks Highway Traffic Safety Corridor (Decommissioned) Fatal & Major Injury Crashes: 1977-2022

(2022+ reported serious injury crashes (blue) are preliminary and incomplete)



AKSAS	Project	Scope	Solution	Funding Source Identified through STIP, GF	Future funding need [FY24+]	Year (Est)
51097	MP 44-52.3 Parks Hwy Rut Repair	M&O overlay repair Wasilla to Big Lake	Completed	\$5,483,000	\$0	2008
53160	Parks & Vine Signal	Traffic signal installation	Completed	\$1,200,000	\$0	2008
51047	HSIP Central Region Rumble Strips	Hwy Safety Imprvmt Proj: Centerline/shoulder rumble strips	Completed	\$89,000	\$0	2010
59838	HSIP Small SPOT Improvements	Signing for headlights, REDDI, Mileposts	Completed	\$55,000	\$0	2011
51289	HSIP NHS Delineation	Curves, guardrail, roadside delineation, signing consistency on Parks, Glenn, Seward, Sterling Hwys.	Completed	\$100,000	\$0	2011
54453 & 53425	Parks & Stanley Signalization	New traffic signal and turn lanes	Completed	\$3,023,037	\$0	2012 (Dec)
53425	Safety Corridors GF: Parks Hwy Speed Signs	Dynamic speed signs, power service and pads	Completed	\$287,248	\$0	2013
54602	Parks & Pittman Signal Modifications	Retrofit to allow for more efficient mainline operations	Completed	\$205,000	\$0	2013
52914	MP 43.5-44.5 Reconstruction	Lucas Rd to Church Rd: Extend 5 Lane Section	Completed	\$29,799,000	\$0	2014
52929	MP 44.5-48.8 Reconstruction	Church Rd to Pittman Rd: Four Lane Divided Hwy	Completed	\$79,405,334	\$0	2016-2018
54373	MP 48.8-52.3 Reconstruction	Pittman Rd to Big lake Rd: Four Lane Divided Hwy	Medium Term	\$80,854,782	\$0	2020
CFHWY0 0421	PHAC - Parks Hwy Alternative Corridor PEL Study	Planning Study for alternatives around Wasilla - Glenn Hwy JCT to Big Lake JCT	Long Term	\$2,000,000	\$0	Begun
				\$202,501,401	\$0	TOTAL

Short Term = Interim Improvements 1-2 years

Medium Term = Permanent Improvements within 1-3 years in STIP

Long Term = Beyond committed or certain STIP funds, funds uncertain

Completed since Safety Corridor	\$ 119,646,619
In Design	\$ 2,000,000
Corridor Reconstruction	Completed

SAFETY CORRIDOR EXPECTED DECOMMISSIONING PLAN: (for segments as road upgrades occur)

DECOMM	MP 43.5-48.8	Decommissioned to Pittman Rd upon completed divided highway	2016
	MP 48.8-52.3	Decommissioned to Houston upon completed divided highway	2022



KNIK-GOOSE BAY ROAD TSC

PAST AND ONGOING SAFETY IMPROVEMENTS

2009-2022 SERIOUS INJURY AND FATAL CRASHES

Completed Safety Improvements

- 2009** Traffic Safety Corridor (TSC) Designation: Palmer-Wasilla Hwy to Point MacKenzie Rd
Double Fines Signs, Full Safety Corridor
New Traffic Signal, Vine Rd (in Yellow)
New Traffic Signal, Fairview Loop Rd
- 2010** Centerline Rumble Strips, Palmer-Wasilla Hwy to Settler's Bay Dr
- 2011** REDDI / Headlights Signing, Full Safety Corridor
- 2011** Three Bears Left Turn Lane, Lighting (in Yellow)
- 2013** Dynamic Speed Signs, Full Safety Corridor
New Traffic Signal, Left Turn Lanes, and Merge Lane Extension at Fern St (in Yellow)
- 2014** Roadside Reflectors, Full Safety Corridor
- 2015** Clapp St / Fairview Loop Rd Realignment, Relocated Traffic Signal (in Yellow)
- 2017** Continuation of Centerline Rumble Strips from Settler's Bay Dr to Point Mackenzie Rd
Shoulder Rumble Strips, Full Safety Corridor
Larger Curve Signing and Pavement Markings, Full Safety Corridor

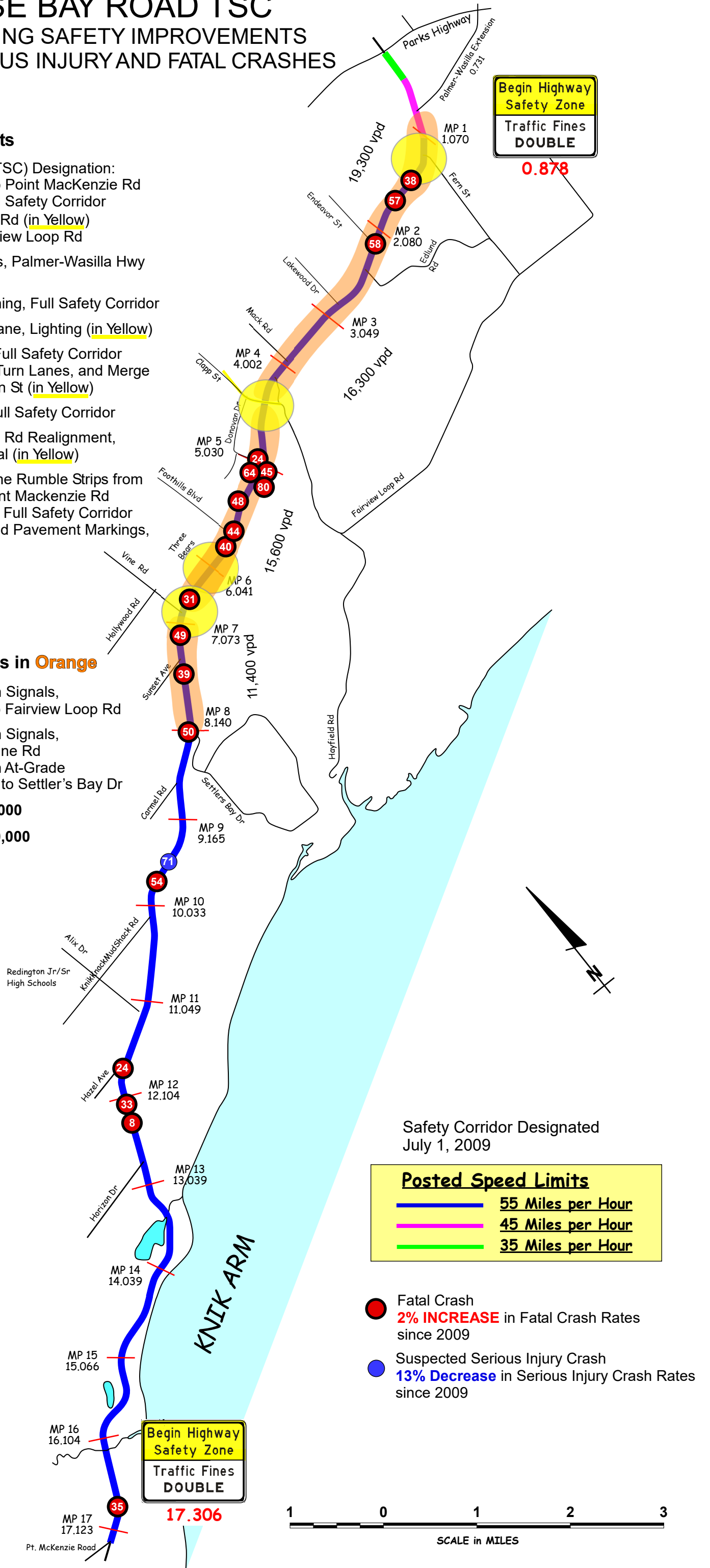
DOLLARS SPENT : \$9,557,000

Upcoming Safety Improvements in Orange

- ~2023 Divided 4 Lane Hwy with Signals, Palmer-Wasilla Hwy to Fairview Loop Rd
- ~2025 Divided 4 Lane Hwy with Signals, Fairview Loop Rd to Vine Rd
Divided 4 Lane Hwy with At-Grade Intersections, Vine Rd to Settler's Bay Dr

DOLLARS IN-PROGRESS : \$111,176,000

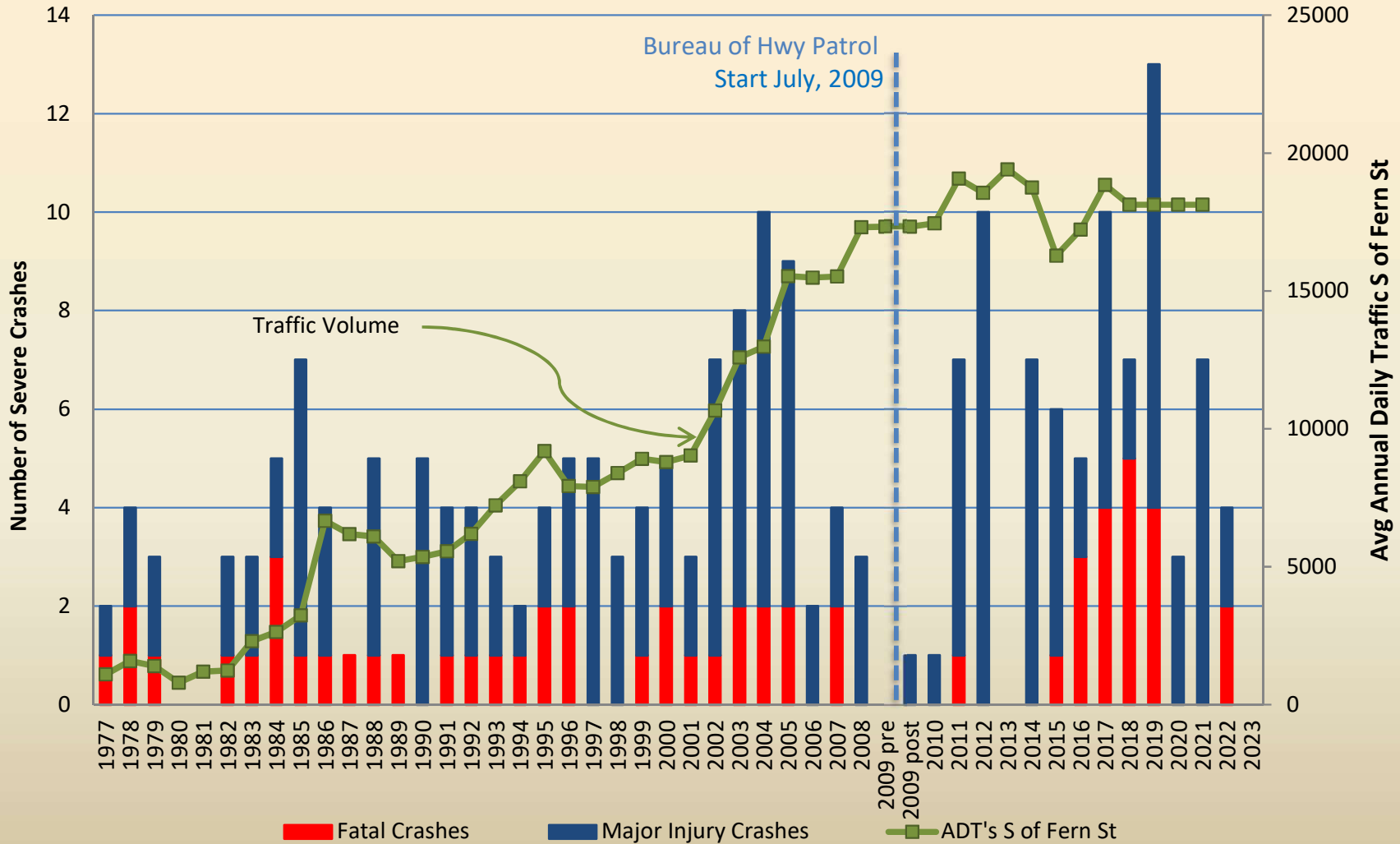
FUTURE FUNDING NEEDS: \$139,200,000



Knik/Goose Bay Road: PW Hwy to Pt. MacKenzie Rd

Fatal & Major Injury Crashes: 1977-2022

(2022+ reported serious injury crashes (blue) are preliminary and incomplete)



Knik-Goose Bay Road Safety Corridor - DOT&PF Improvements since Designation July 1, 2009

3/28/2023

AKSAS	Project	Scope	Solution	Funding Source Identified through STIP, GF	Future funding need [FY24+]	Construction
						Year
50951	KGB & Vine Rd Signalization GF	New Traffic Signal	Completed	\$1,335,000	\$0	2009
50889	KGB & Fairview Lp Signal GF	New Traffic Signal	Completed	\$1,300,000	\$0	2009
51047	HSIP Central Region Rumble Strips	Hwy Safety Improvement Project: Centerline rumble strips to Settler's Bay Dr	Completed	\$174,000	\$0	2010
59838	HSIP Small SPOT Improvements	Signing - Headlights, REDDI, Mileposts w/areawide project	Completed	\$55,000	\$0	2011
53425	Safety Corridors: KGB Hwy Speed Signs GF	Dynamic speed signs, power service and pads.	Completed	\$574,000	\$0	2013-2015
51896	KGB & Fern St Signal & Turn Lanes GF (\$1.2M; City \$300k)	Traffic signal, left turn lanes, merge lane extension	Completed	\$5,681,000	\$0	2013
55750	HSIP CR Guardrail Delineation Enhancements	Upgrades to high intensity web reflectors and to post top delineators on coasts	Completed	\$31,000	\$0	2014
		Clapp/Fairview Realignment and Relocated Signal	Completed			
CSHWY 00319	2017 Gov Safety Initiative	Stencils, signs, stripes, shoulder rumble strips. Extend centerline rumbles to Pt Mack	Completed	\$407,000	\$0	2017
52464	KGB Widening MP 0.3-6.8. GF + FHWA Separated 4 lane hwy, signals	Phase I: PW Hwy to Fairview Lp Rd.	Short Term	\$92,742,000	\$0	2024
		Phase II: Fairview Lp Rd to Vine Rd	Medium Term	\$18,134,000	(\$107,700,000)	2024
51717	KGB Widening MP 6.8-8. Vine Rd - Settler's Bay GF	Divided 4 lane hwy with at-grade intersections	Medium Term	\$300,000	(\$31,500,000)	2024+
				\$0	(\$139,200,000)	TOTAL

Short Term = Interim Improvements 1-2 years

Medium Term = Permanent Improvements within 1-3 years in STIP

Long Term = Beyond committed or certain STIP funds, funds uncertain

Completed since Safety Corridor	\$ 9,557,000
In Design	\$ 18,434,000
Under Construction	\$ 92,742,000

SAFETY CORRIDOR EXPECTED DECOMMISSIONING PLAN: (for segments as road upgrades occur)

MP 0.3-4.1	Decommission upon completion of each separated multilane segment with adjacent connectivity	2024
MP 4.1-6.8		2026
MP 6.8-8		2026

Cumulative growth effects: Housing, Prison, Schools, Resource extraction, Rail terminal

01/00/00



STERLING HIGHWAY TSC

PAST AND ONGOING SAFETY IMPROVEMENTS

2009-2022 SERIOUS INJURY AND FATAL CRASHES

Completed Safety Improvements

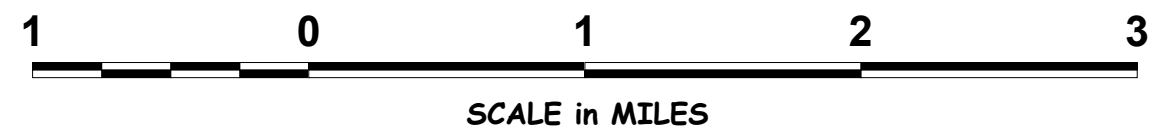
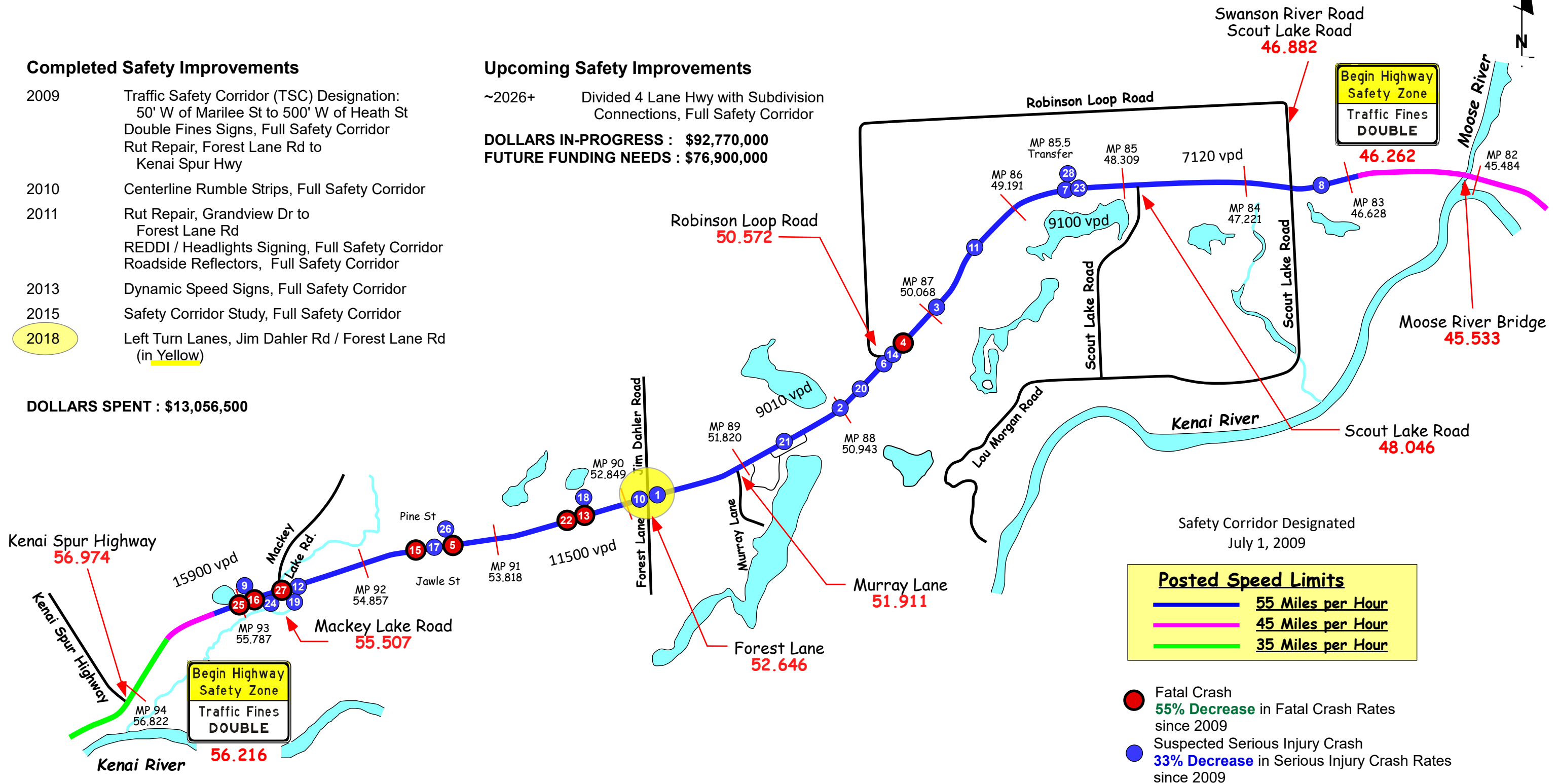
- 2009 Traffic Safety Corridor (TSC) Designation:
50' W of Marilee St to 500' W of Heath St
Double Fines Signs, Full Safety Corridor
Rut Repair, Forest Lane Rd to
Kenai Spur Hwy
- 2010 Centerline Rumble Strips, Full Safety Corridor
- 2011 Rut Repair, Grandview Dr to
Forest Lane Rd
REDDI / Headlights Signing, Full Safety Corridor
Roadside Reflectors, Full Safety Corridor
- 2013 Dynamic Speed Signs, Full Safety Corridor
- 2015 Safety Corridor Study, Full Safety Corridor
- 2018 Left Turn Lanes, Jim Dahler Rd / Forest Lane Rd
(in Yellow)

DOLLARS SPENT : \$13,056,500

Upcoming Safety Improvements

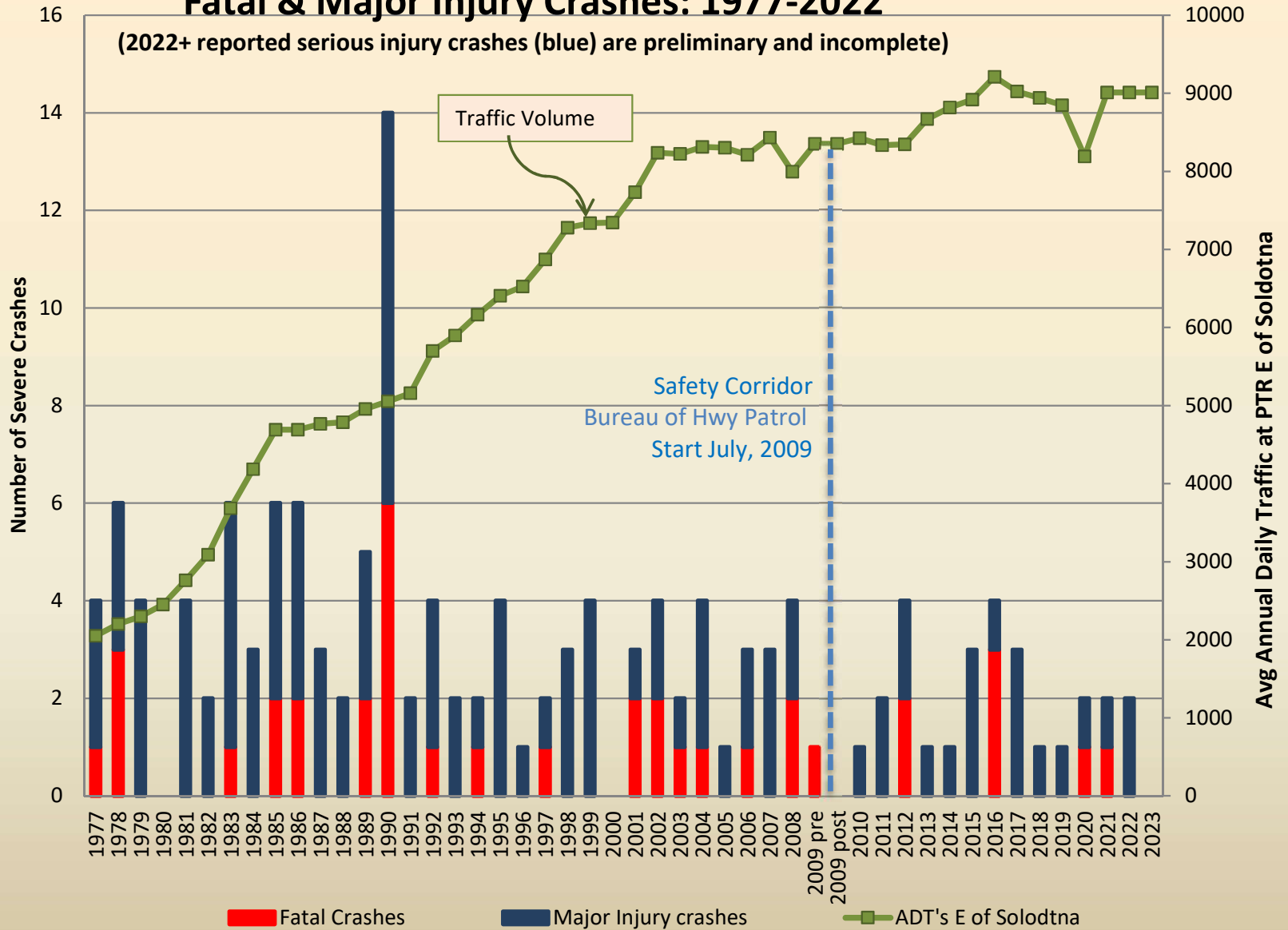
~2026+ Divided 4 Lane Hwy with Subdivision
Connections, Full Safety Corridor

DOLLARS IN-PROGRESS : \$92,770,000
FUTURE FUNDING NEEDS : \$76,900,000



Sterling Highway Traffic Safety Corridor Fatal & Major Injury Crashes: 1977-2022

(2022+ reported serious injury crashes (blue) are preliminary and incomplete)



Sterling Hwy Safety Corridor - DOT&PF Improvements since Designation July 1, 2009

03/28/23

AKSAS	Project	Scope	Solution	Funding Source Identified through STIP, GF	Future funding need [FY24+]	Construction Year (Est)
51046	Sterling Hwy Rut Repair, MP 90-94	Surface repaving from Soldotna to Forest Lane	Completed	\$3,043,000	\$0	2009
51047	HSIP Central Region Rumble Strips	Hwy Safety Improvement Project: Centerline/shoulder rumble strips	Completed	\$105,000	\$0	2010
52493	Sterling Hwy Resurfacing, MP 82-90	Forest Lane to Sterling resurfacing, guardrail, signing, striping	Completed	\$4,842,682	\$0	2011 (Phase II)
59838	HSIP Small SPOT Improvements	Signing for headlights, REDDI, Mileposts	Completed	\$55,000	\$0	2011 Construction w/NHS Delin
51289	HSIP NHS Delineation	Curves, guardrail, roadside delineation, signing consistency on Parks, Glenn, Seward, Sterling Hwys.	Completed	\$100,000	\$0	2011
53425	Safety Corridors: Sterling Hwy Speed Signs GF	Dynamic speed signs, power service and pads.	Completed	\$343,296	\$0	2013-2015
54830	Safety Corridor Study	Sterling to Soldotna: Four lane options	Completed	\$600,000	\$0	2015
57088	HSIP Traffic Safety Corridors Left Turn Lanes	Left turn lanes - Jim Dahler Rd / Forest Lane, each direction	Completed	\$3,967,500	\$0	2018
CFHWY 00130	Sterling Safety Corridor Improvements MP 82.5-94	Widening to a divided 4 lane facility w/limited center TWLTO lanes	Long Term	\$92,770,770	(\$76,900,000)	2025+
				\$105,827,248	(\$76,900,000)	TOTAL

Short Term = Interim Improvements 1-2 years

Medium Term = Permanent Improvements within 1-3 years in STIP

Long Term = Beyond committed or certain STIP funds, funds uncertain

Completed since Safety Corridor	\$13,056,478
In Design	\$92,770,770
Under Construction	\$ -

2022 SAFETY CORRIDORS AUDIT

PUBLIC AND AGENCY COMMENT

FOUR E'S and OTHER CONSIDERATIONS (2006-2022)

ENFORCEMENT

EDUCATION

ENGINEERING

EMS

REGULATORY

SAFETY CORRIDORS REVIEW TEAM

And

OTHER AGENCY ADVISORS

DOT/PF & DPS
HIGHWAY SAFETY CORRIDORS
2022 AUDIT

ENFORCEMENT CONSIDERATIONS				
Contact: Capt. Richard Roberts, AST – Bureau of Highway Patrol (BHP)				
email: richard.roberts@alaska.gov				
Item	Request From	Suggestion / Comment	Related Actions	Recommendations for further Action
1	Audit Group 2009, 2010	Increase traffic patrol staff in the Mat-Su focused on and around the Parks Highway Safety Corridor	2006: Opened Pittman Rd office October. Initially added 2 Municipal officers to BHP. 2010: Added 2 full time BHP troopers to Girdwood. 2010-2011: Authorized for more BHP officers up to 26 positions. 2011: DRE grant funds for 4 additional DRE's statewide. Ongoing: Shifting BHP resources as needed to cover events, holidays, and higher risk corridors at desirable shift levels. 2012-2013: No staff increases. Maintain ongoing patrol. 2016: BHP reduced to 3 officers serving the Seward Hwy and Statewide. MatSu West Trooper Post officers will patrol MatSu.	No additional action.
2	Audit Group 2009	Target aggressive, reckless/improper driving, and speeding	2010: Added staff (see above), and local police agreements to BHP from 2009-2011. Increased Seward Hwy enforcement in 2009, further in 2010 with two BHP units assigned to Girdwood. Purchased 5 smart carts in 2009 – deployed radar trailers for mobile use since 2010. Increased REDDI reporting awareness via radio in 2010, signing by DOT in 2011. 2016 budget cuts are reducing enforcement staffing for highway patrol.	No additional action.
3	Audit Group 2009, 2010	Experiment with aerial enforcement to determine cost-effectiveness in reducing crashes	Tested in 2006, 2008, 2009. Preliminary testing proved challenging due to summer traffic congestion, winter conditions covering aerial markers and lack of full time dedicated staff for areal enforcement. Aerial program not cost-effective. No resources available for a sustained program.	No further action.
4	Audit Group 2009+, Citizen request 2017	Tap Safety Corridor fines, agency grants, and legislated funds	2009-2011: Submitted AST Grant request to AHSO for more PCN's. 2012: AHSO funding grants utilized. 2013: No grants available. 2014-2016: Safety funding utilized from DOT for Safety Corridors. 2017: MAP-21 disallowed hwy safety funds for patrols other than limited DUI enforcement	Ongoing actions are to look for and manage funds for added enforcement and education

DOT/PF & DPS
HIGHWAY SAFETY CORRIDORS
2022 AUDIT

ENFORCEMENT CONSIDERATIONS				
Contact: Capt. Richard Roberts, AST – Bureau of Highway Patrol (BHP)				
email: richard.roberts@alaska.gov				
Item	Request From	Suggestion / Comment	Related Actions	Recommendations for further Action
			2021: Newest Hwy Act re-allows hwy safety funds for patrols other than DUI enforcement	
5	Audit Group 2009	Explore agreements with local police agencies or rotate staff into traffic work as needed.	<p>2011: Established BHP in four teams Palmer Team Soldotna Team Girdwood Team Fairbanks Team</p> <p>Completed agreements in past with KPD, PPD, WPD and FPD APD ~15 hrs/month McHugh Crk north.</p> <p>2012: AHSO funding grants utilized. 2013: No grants available. Local agreements on hold 2014: Safety funding available from DOT for Safety Corridors. 2016: BHP Reduced state budgets puts all local agreements on hold. Reduced to 3 BHP officers who patrol the Seward Highway and major special events as needed.</p>	No additional actions at this time. Additional actions tied to available budgets
6	Audit Group 2009	Increase DUI enforcement on weekends. Corridors to be included in enforcement. Shifts for location focus will be based off data review.	<p>Holidays, weekends are a routine focus.</p> <p>2009: Citations in B Detachment at 300 DUI's yr, up 50/yr. 2010: Patrol hours up. 2010: BHP Conducted "Sat Nite Blues" plan early SUN am targets. Intercepting more DUI's before the peak crash period, as the DUI affect begins. 2011-2012: AHSO funding grants utilized and concluded. 2013: No grants available. 2014-2016: Safety funding utilized from DOT for Safety Corridors.</p>	Performance Reporting.
7	Audit Group 2009	Seward Highway: Explore Midnight to 2 AM any months, and FEB-APR	<p>2009 Expanded with BHP staff scheduling. 2013+ Continue to review schedules to address alcohol related incidents.</p>	No additional actions
8	Audit Group 2009	Consider a "DUI BATmobile" (Blood Alcohol	<p>Considered. Added equipment and staff to operate is not cost-effective. All offices now have Datamaster DMT Breath Test</p>	Not recommended.

DOT/PF & DPS
HIGHWAY SAFETY CORRIDORS
2022 AUDIT

ENFORCEMENT CONSIDERATIONS				
Contact: Capt. Richard Roberts, AST – Bureau of Highway Patrol (BHP)				
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Item	Request From	Suggestion / Comment	Related Actions	Recommendations for further Action
		Testing mobile) on weekends to keep officers on the road while processing offenders	Instruments for DUI processing.	
9	Audit Group 2009	Increase traffic patrol targeting aggressive driving by time of day, month to correlate with higher crash periods	Schedule shifts using DOT/PF times from past crash data, along with local enforcement experience.	No additional actions.
10	Audit Group 2009	Document enforcement efforts and potential effectiveness.	2010: Programmed more tracking measurements. Created beat codes for Safety Corridors event coding. BHP measuring for all fatal crashes and many major injury crashes. 2009: B Detachment is for up to 5,000 citations/yr for speeding, insurance, seatbelts, other factors. 2010: report is for about 4,000 citations. 2013 Research approved for performance reporting in the field. 2014: Need research agreement. Need to update members assigned to research team. 2015+: Multiyear research begun to measure how police presence on roadways affects citations, arrests, and crashes.	Research agreement & startup Initiated in 2015. Follow-up results will take years.
11	PUBLIC LEGISL 2009	Provide more Troopers Enforce illegal passing.	2009: Established BHP. 2009-2011: Built up staff to goal levels. 2016: State budgets require reducing staffing for this effort.	No additional actions.
12	PUBLIC LEGISL 2009	Provide Hotline to report dangerous drivers	2010: Increased REDDI media. 2011: REDDI signs installed in Safety Corridors.	No additional actions.
13	PUBLIC LEGISL 2009, Girdwood 2020	Install photo/camera radar on the Seward Highway	2009: Considered. Requires legislation to clarify fees, fines, tolerances, enabling staffing, rulemaking. 2016: Discussed in Girdwood 2020 meeting. Requires legislation, equipment, and staffing to maintain and operate.	No additional actions.

DOT/PF & DPS
HIGHWAY SAFETY CORRIDORS
2022 AUDIT

ENFORCEMENT CONSIDERATIONS				
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email: richard.roberts@alaska.gov				
Item	Request From	Suggestion / Comment	Related Actions	Recommendations for further Action
14	PUBLIC LEGISL 2009	Place unmanned police cars along road. Mark more cars so they can be seen and reduce citations.	2009: Considered by BHP. Concerns for vandalism, liability. No link to effectiveness.	No further action.
15	PUBLIC LEGISL 2009	Create routine volunteer patrols to make REDDI call-ins. Advertise REDDI phone number.	2009: Considered. 2010: Increased REDDI media. 2011: REDDI signs installed in Safety Corridors. MatSu calls divided well to 2500/mo-911/EMS calls to Palmer; 1000/mo-911/REDDI calls to Wasilla. Continues REDDI dispatch on separate channels. Kenai Pen KP/B/AST all goes to one channel – larger volume of 18,000 911 calls. Concern is that it affects air time available for dispatch. KP/B dispatch on same channel limits airspace.	Reviewed KP/B Dispatch channel use and methods, after receiving REDDI calls. Explored updating Education to public on REDDI with AST/AHSO ongoing
16	PUBLIC LEGISL 2009	Run patrols, pilot cars at 55 MPH and make others follow	Considered. Limited to existing officer resources. No resources for pilot cars. Most motorists are already creating slower speeds in busier Safety Corridors due to high traffic levels.	No further action.
17	PUBLIC LEGISL 2009	Enforce slow vehicles which delay other vehicles.	Enforcing the law where clearly violated and where pullouts available. 2009: Done when obvious, with judgment of traffic levels. Difficulty is to identify the “lead” vehicle on a busy weekend. Executive/regulatory limitations. Not illegal if going the speed limit. 2013-2014: Up to 8 more pullouts constructed with signs.	No additional action.
18	AUDIT GROUP 2010	Increase DRE’s available to law enforcement	2011: Increased with AHSO grants for state and local agencies. Revised and improved the Drug Recognition Expert program to include more local law enforcement input and provide essential recertification of DREs. 2013: 23-25 DRE’s statewide 2015: Expanding to 40 to 45 DRE’s statewide. Trained additional DRE’s in 2015 and planning to train more. DRE’s	DRE increases occurring. No additional action.

DOT/PF & DPS
HIGHWAY SAFETY CORRIDORS
2022 AUDIT

ENFORCEMENT CONSIDERATIONS				
Contact: Capt. Richard Roberts, AST – Bureau of Highway Patrol (BHP)				
email: richard.roberts@alaska.gov				
Item	Request From	Suggestion / Comment	Related Actions	Recommendations for further Action
			increasing training to law enforcement for impaired driving detection (ARIDE) and school administrators (DITEP). Annual DRE training is also teaching DRE's, attorneys, and toxicologists regarding impaired driving prosecution.	
19	Audit Group 2017	Work out REDDI calls Seward Hwy. Which agency responds?	Many calls all corridors – officers not always immediately in vicinity to respond. All REDDI calls worthwhile in results. Routing is based on jurisdiction. Seward Hwy covered by APD from Potter Marsh to MP 75 (MOA Boundary with KPB Borough). Local roads in and around Girdwood are routed to the Whittier Police Dept.	Resolved
20	Audit Group 2017	Kenai Spur #2 feasibility?	Would corridor N of Kenai pose a resource problem if it were a Safety Corridor? = No – works with area assignments and roving.	To be determined under future safety Corridor Candidates screening in 2023.

DOT/PF & DPS
HIGHWAY SAFETY CORRIDORS
2022 AUDIT

EDUCATION CONSIDERATIONS				
Contact: Tammy Kramer, AHSO				
<u>tammy.kramer@alaska.gov</u>				
Item	Request From	Suggestion / Comment	Related Actions	Recommendations for further Action
1	Audit Group 2009	Expand education efforts to include aggressive as well as impaired driving.	<p>ANNUALLY: Click it or Ticket May. July, Labor Day, New Years/Xmas - impaired driving, Small one in Nov for Click it or Ticket.</p> <p>2009: TV Ads for new Safety Corridors Jul 1.</p> <p>2009-2011: Radio campaign for drowsy driving. Road-wise headlights ads, September.</p> <p>2010: Hosted teen driving test, "Take the Challenge" on AHSO website</p> <p>2010: KTUU 1 Hr TV/web panel on Seward Hwy Safety Corridors.</p> <p>2010-2011: Contracted with AIPC to produce radio, TV ads with agency officials. No shooting at signs. Distributed bumper sticker selections for public use/preference to encourage courtesy to others.</p> <p>2010-2013: Distracted driving campaign, including texting and using hand-held/hands-free phones for radio and TV media campaign</p> <p>2011-12: Due to federal funding reductions and tighter restrictions the focus is on impaired driving messages.</p> <p>2014-2015+: Contracting out each year and coordinating Statewide Safety messages, and with AST for supplemental messages</p>	Continue media, No additional action.
2	Audit Group 2009	Continue DUI and seatbelt efforts	<p>2009: Seatbelt compliance levels measured at 86.1%, up 1.6%</p> <p>2010: 86.8%</p> <p>2011: at 89.3%.</p> <p>2015: ~ 90% seatbelt compliance in survey http://www.dot.state.ak.us/stwdplng/hwysafety/pubs.shtml</p> <p>Promoting seatbelt messages on the four "corner" holidays each year.</p>	Continue surveys, otherwise no additional actions.
3	Audit Group 2009; 2010	Target improper passing and speeding. Explain how and when to pass safely, esp. 3 Lane sgmts.	<p>2009: Contracted with AK Injury Prevention Center to produce radio and TV ads with agency officials. Commissioners of DPS/DOT/DOL/ participating in ads.</p> <p>2011-2013: Unable to fund messages other</p>	No additional actions.

DOT/PF & DPS
HIGHWAY SAFETY CORRIDORS
2022 AUDIT

EDUCATION CONSIDERATIONS

Contact: Tammy Kramer, AHSO
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Item	Request From	Suggestion / Comment	Related Actions	Recommendations for further Action
		Explain how to use Slow Vehicle Turnouts.	than impaired driving. DOT/PF projects will promote use of SVT's through project education. 2017: Observed usage on Sterling Hwy S of Soldotna is SVT's working for larger, slower vehicles, as intended. Used by school buses after miles of highway stops – releases the traffic load. Also trailered vehicles.	
4	Audit Group 2009; 2010	Encourage citizen reports of reckless and aggressive driving at the time of occurrence. REDDI reports have contributed to the overall success of past enforcement	2009-2012: AST produced REDDI media ads with Governor, Commissioners, managers including DOT&PF/DPS/Law and Labor in 2009, 2010, 2011, 2012. 2011: REDDI signs incorporated into corridors. 2013: GFD – REDDI is working in their view, AST E Det – more education on REDDI reporting desired by more means: radio, schools. More REDDI reports than can be assigned/followed up. What is a REDDI report (911 call) and what is not? No “vendetta” reporting, real serious risks only.	Updated REDDI education efforts ongoing, otherwise no additional actions.
5	Audit Group 2009	Consider terminology effect – be blunt vs. softpedaling - are crashes “deaths”, “murder”, “disfiguring”, “handicapping”	2009-2011: Grants made to BHP, and to AIPC for media campaigns underway. Newer ads were blunt and serious.	No additional action.
6	Audit Group 2009	Involve DA's office in Education plan. Help with understanding of agency efforts prior to judging how serious a citation is.	2009-2011: The Municipality of Anchorage has a Traffic Safety Resource Prosecutor who assists and educates state and municipal Prosecutors, the court system, law enforcement agencies and the public primarily in Anchorage where most crashes are and a significant share of the traffic injury and fatalities. 2012-2013: No TSRP staff. 2015: TSRP staff unlikely given current budgets.	Considered TSRP at the state level. Tabled for budget reductions.
7	Audit Group 2009	Consider educational materials to be	2009-2011: Grant agreements are being developed with AST, AIPC, Market Wise and Soldotna PD for media campaigns. No data	No additional actions.

DOT/PF & DPS
HIGHWAY SAFETY CORRIDORS
2022 AUDIT

EDUCATION CONSIDERATIONS				
Contact: Tammy Kramer, AHSO				
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Item	Request From	Suggestion / Comment	Related Actions	Recommendations for further Action
		given out at the border, ports of entry. CD's brochures,...etc.	to suggest RV's, port of entry visitors are a major crash problem. 2011: Ads in Milepost, on Buses and on Facebook. 2012-2013: No grants available to AST due to reporting requirements. AIPC and Marketwise active. 2014-2015: New annual contract media work.	
8	Audit Group 2009	Determine effect of cell phone use on crashes.	Lack of data due to existing crash report forms, however, using national studies to back up TV and radio ads to discourage cell phone use. As of 2011, Subcommittee has revised the 12-200 crash report forms and local agencies have begun to test this data point. 2013 implemented a new crash form with cel phone fields.	Data at time of crash is not reliable enough to make a clear determination. Will work with NHTSA on topic.
9	Audit Group 2009	Take status reporting to Anchorage Assembly, Public Safety Advisory Committee, other groups.	2009: Met with AMSAC Motorcycle Safety Committee. (AMSAC no longer functional past few years 2014-2015.) 2010: Met with ATA Trucking Association about passing, visibility, and speeds. 2011: Limited staffing available for field meetings. Transportation funding is being reduced. 2016: Briefing community groups, Girdwood 2020 and media upon request.	2023 Updating SHSP 2023 with variety of stakeholders
10	Audit Group 2009	Measure education efforts	2010: Completed Alaska 2010 Highway Safety Phone Survey Report: survey: http://www.dot.state.ak.us/stwdplng/hwysafety/stats.shtml Annual: Federal survey is being conducted annually. AST, Market Wise and AIPC will combine resources to have AIPC produce one single survey 2015: Annual AHSO survey awareness – results. Annual seatbelt survey result – usage increased to almost 90% Navigator survey 2016 (Dittman) reflects positive awareness of work zones, message boards, radio, web-based, and social media notices.	No additional actions.
11	PUBLIC	Gather public and	2009: Met with Girdwood public at AFD Chief	Continue briefings

DOT/PF & DPS
HIGHWAY SAFETY CORRIDORS
2022 AUDIT

EDUCATION CONSIDERATIONS

Contact: Tammy Kramer, AHSO
tammy.kramer@alaska.gov

Item	Request From	Suggestion / Comment	Related Actions	Recommendations for further Action
	LEGISL 2009	legislative input.	<p>request. Briefed Senate Transportation Committee. Presented to Joint Judiciary & Transportation Committee. Toured with House Transportation Committee Seward Hwy Corridor.</p> <p>2010: Ch 2 News Hour Special Input Panel. Expanded Safety Corridors website info.</p> <p>2011: Secretary of Transportation LaHood and Commissioner of DOT/PF conducted Girdwood roundtable. Legislative briefing by Commissioners of DPS, DOT/PF.</p> <p>2013-2015: Girdwood 2020 Community updates by Special Project Manager for DOT.</p> <p>Annual: Audits of year to date. Staff booths at each year at Alaska State Fair and MatSu and Anchorage Transportation Fairs.</p>	as meetings and invites occur
12	PUBLIC LEGISL 2009	Use SYLVIA sign at Potters Marsh more frequently for education.	<p>Considered. Will use for education as prescribed by Joint agency signing manual once sign is rebuilt.</p> <p>2010: Sign was “down” in 2010 due to parts obsolete, unavailable</p> <p>2011: October. Sign replaced and functional.</p> <p>2012: No education planned messages.</p> <p>2013: Sign upgrades to link to 511.</p> <p>2014-2015: Commissioner liason preplanned messages for the year.</p>	Annual safety campaign messages occur each year at 4 major holidays
13	PUBLIC LEGISL 2009	Education at border; in schools; vehicle & RV rental shops	2009-2010: Pursued additional media options besides TV and media grants to AIPC, BHP, including bumper stickers, fliers.	No additional recommendation
14	PUBLIC LEGISL 2009	Education for teens, stricter age restrictions	<p>2004: Passed Graduated Drivers’ License program.</p> <p>DOT&PF and DPS Commissioners directly involved in “Every 15 Min.” (EFM)high school mock crash program</p> <p>2010: Driver License “Take the Challenge”(TTC) online practice test available on AHSO main webpage.</p> <p>2011: Funding for grantees for teen education in high schools about impaired driving.</p>	Continued programs and outreach.

DOT/PF & DPS
HIGHWAY SAFETY CORRIDORS
2022 AUDIT

EDUCATION CONSIDERATIONS				
Contact: Tammy Kramer, AHSO				
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Item	Request From	Suggestion / Comment	Related Actions	Recommendations for further Action
			2007-2013: Updated the SHSP with youth safety strategies. 2015 : Buckle Up annual by AIPC for teens. Recent news - recent education – Service HS.	
15	PUBLIC LEGISL 2009	Public shaming, stickers on license, plates	2010-2011: Voluntary bumper stickers distributed for those supporting courtesy, safe driving	No additional action w/o legislation.
16	PUBLIC LEGISL 2009	Promote video conferencing rather than road travel	2009: Considered. Conferencing determined by economics. This is occurring for various government staff meetings.	No additional action.
17	PUBLIC LEGISL 2009	Mass text to all texters that texting kills	2009: Evaluated internet, cell media other messages. Law passed in AK against texting. 2010: Distracted driving message on CMS signs “No texting zone”.	No additional actions.
18	PUBLIC LEGISL 2009	Set up “break stops” along the highway	2009-2010: Set up stops in Turnagain Pass with BHP/AST. July 4. No plans for dedicating highway stops or information. No indication of effectiveness. REACT has provided this in past.	No additional actions.
19	PUBLIC LEGISL 2009	Set up a Highway Watch as a nonprofit oversight group Girdwood. Fund equipment, volunteer shifts to observe and make REDDI reports on regular basis.	2009: Considered. Focused instead on funding BHP, REDDI program, education programs, engineering projects, and EMS coordination, and not diverting agency time.	Not recommended.
20	PUBLIC LEGISL 2009	Public Service Announcement on school bus safety.	Considered reports by ASD on rural passing on the Seward Hwy.	Considered but not possible because of a lack of funding.
21	PUBLIC LEGISL 2009	Reinstate activities bus for Girdwood to reduce extracurricular driving, vehicles on road.	2009-2013: Reinstated by ASD. Big in early season and track, drops other times. Continued use as funding allows.	No additional action at this time.
22	PUBLIC	Eliminate school	None. No frequent concerns noted at the State	Not recommended

DOT/PF & DPS
HIGHWAY SAFETY CORRIDORS
2022 AUDIT

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Item	Request From	Suggestion / Comment	Related Actions	Recommendations for further Action at this time.
	LEGISL 2009	bus strobes – blinding drivers?	level.	
23	PUBLIC LEGISL 2009	Hire a traffic psychologist, behavior specialist	Considered. AHSO coordinates with NHTSA to gain benefits of these insights. No positions available at this time for added staff.	No additional actions.
24	PUBLIC LEGISL 2009	More education on following distance, following too close.	2009-2015: Primary media funding limited to DUI efforts.	Not recommended at this time.
25	PUBLIC LEGISL 2009	Mandatory defensive driving, or education in schools	Moved to LEGISLATIVE CONSIDERATIONS for tracking.	No additional action. Forward to the executive or legislative level.
26	PUBLIC LEGISL 2009	What about wildlife crashes in Safety Corridors, these are a large percentage?	Moved to ENGINEERING CONSIDERATIONS for tracking	No additional actions.
27	PUBLIC LEGISL 2009	Eliminate “delay of 5 vehicles” rule. Doesn’t work if you are driving the speed limit. Makes the safe driver a lawbreaker.	2009-2015: Primary media funding limited to DUI efforts. Not considered delay or a rule to pull over if driving the speed limit. 2014: New messages planned with projects for Slow Vehicle Turnouts on the Seward, Sterling Hwys 2016: CR to release summer PR w/Passing Lane field tests – Shannon, Anna?	Conducted education messages
28	PUBLIC LEGISL 2009	Apply photo radar to the Seward Highway	2014: DOT testing driver feedback signs, not enforcement signs with legislated funds. First must be sure of effectiveness of radar for length of corridor, not just radar site. Next must link to crash reduction. Requires hardware, staffing to maintain. If results are proven, then requires a regulatory effort before engineering, education, or enforcement.	No action at this time.
29	AUDIT GROUP 2010	Increase DRE’s available to law enforcement	Moved to EDUCATION CONSIDERATIONS for tracking	No additional actions.
30	AUDIT GROUP 2010	Examine need for Claims Agencies	2009: Reviewed court system collections effectiveness.	No action recommended at

DOT/PF & DPS
HIGHWAY SAFETY CORRIDORS
2022 AUDIT

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Item	Request From	Suggestion / Comment	Related Actions	Recommendations for further Action
		to collect fines		this time.
31	AUDIT GROUP 2010	Are “blue” high intensity headlights a safety problem	Headlight type studies are unknown at this time. Requires national review as this is not only common to Alaska.	No action recommended at this time
32	Audit Group 2017	Promote Apps for Education	Can DOT or AHSO promote or team up with apps for safer driving? Such as Everdrive for speed and phone use guidance.	No programs or funding for public/private tool linkage at this time
33	Audit Group 2017	Kenai Spur #2 feasibility?	Would corridor N of Kenai pose a resource problem if it were a Safety Corridor? Currently has standard education plan – could require focused messaging.	To be determined under future safety Corridor Candidates screening in 2023.
34	Audit Group 2017	Revise 511 reporting to avoid duplication and mass notifications on text alerts	511 alerts can vary by the hour and by the staff persons during that hour – leading to slight variations on the same event.	511 messaging has been updated and modernized.

DOT/PF & DPS
HIGHWAY SAFETY CORRIDORS
2022 AUDIT

ENGINEERING CONSIDERATIONS				
Contact: Scott Thomas, DOT/PF				
<u>scott.thomas@alaska.gov</u>				
Item	Request From	Suggestion / Comment	Related Actions	Recommendations for further Action
1	Audit Group 2009	Build low cost road projects, while scheduling major upgrades:	Significant series of projects are attached to this audit. Additional funding sought for major long term project upgrades, as documented in the 2011 STSP Draft. 2009-2013: Hooligan fishery speed zone 45 MPH approved for each May annually. 2009-2013: Additional permanent CMS message boards on the NHS Highways at Alyeska Junction and west of Wasilla not recommended due to ongoing costs. See attached projects lists.	Nearly all projects listed for Safety Corridors are already completed or underway.
2	Audit Group 2009	Improve winter sanding/plowing	2009: Paving ruts saved M&O 20% on sanding runs, 50% on Parks. Houston plowing routes to school 30 minutes after DOT plowing. 2009-2010: Reviewed EMS concerns with Soldotna M&O. Sanding/roads improved by EMS observation thru 2013. 2009: M&O testing aggregate sizes, prewetting salts, and D-1 use on Kenai, added chemicals in Mat-Su. Review salt use. 2013: Budget limitations limit salt options. Salt/sand storage areas being improved. Anti-icing technologies being reviewed statewide. 2016: Budget cuts reduced overall M&O, Safety Corridors remain Priority 1.	No additional actions beyond current investigation.
3	Audit Group 2009	Cut roadside brush for visibility at night	Prioritizing Safety Corridors, Moose Corridors. 2009: Budgets down by 1/3 in Mat-Su. Parks, KGB Corridors cut. 2010: Parks, Sterling cut. 2013: Statewide vegetation management plan developed, alternatives being reviewed besides cutting, including herbicides. 2015: HSIP Project expanded clearing of Roadside for additional view, thawing over time.	No additional actions beyond current investigation.
4	Audit Group 2009	Move edge of traveled way, increase shoulder?	Considered. 12' lanes provide width for traffic movement, rut avoidance. Planned rumble strips dictate EOTW location.	No narrowing recommended.
5	Audit Group 2009	Consider Whittier Tunnel operations:	2009, 2013: Tunnel operation considered – serious implications with changes – Safehouse capacity, spacing, safety in tunnel requires	No further action.

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		Release cars first? Then buses and trucks don't lead to a bunch of passing maneuvers.	releasing buses at larger gaps/headways and leading the pack is the most efficient way to ensure this. Easier to control 8 buses a shot and leave space for remaining citizens, than vice versa, cutting off citizens for buses. Reviewed crash data, no significant correlation to large vehicles or tunnel traffic. 2015-2016 – Acceleration lane upgrades in Design for the Seward Hwy MP 75-90 Project.	
6	Audit Group 2009	Reevaluate speed limit in Sterling. Traffic goes faster.	2009: Higher limit unlikely given urban design standards. Would take more highway upgrades in the area to reconsider. Some urban businesses, no significant change in commercial use over time.	No further action.
7	PUBLIC LEGISL 2009, 2011, Girdwood 2020	Build 4 lanes divided hwy now, or Build a Turnagain Arm Crossing as an alternative route.	2009: See Attached major long term projects list as projects are begun and completed. 2016: Discussed at Girdwood 2020 = major funding constraints limit project initiation and selection. 2023: Seward MP 97.5-117 initiated Design.	No additional action for Auditing.
8	PUBLIC LEGISL 2009, 2011; Girdwood 2020 (2016)	Install continuous median barrier. Concrete or steel rail.	2009: Considered full length. Costly, impacts access, shoulder use, emergency response, road width is inadequate without losing shoulders. Not recommended on most of Seward Highway, KGB Road without widening. Parks, Sterling have access, scheduling concerns. Cost appears more efficiently spent on full widening for one more passing lane vs 6-8 foot for a barrier. 2013: Partial barrier to be evaluated in corridor studies. Initial review shows space is too limited, secondary impacts to access, drainage, shoulders, rumble strips, plowing, all appear significant. 2015: Barrier considered in MP 75-90 Rehabilitation, Passing Lane project design options. Rejected in Design phase due to cost, impact, width vs project scope, schedule, and budget. 2016: Girdwood request considered – requires a 6 foot wide footprint minimum, leading to loss of shoulders or widening of roadway. Also requires median breaks and a large quantity of expensive crash cushions.	Considered. Declined due to cost, schedule, budget, M&O, and EMS needs

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9	PUBLIC LEGISL 2009, Public request 2017	Make entire corridors No Passing zones, double yellow. Reduce passing opportunities or ban passing. Consider Anch-Bird segment – older hwy	Considered. Striping must command respect, serve a purpose. Continuous DY does not remove aggressive or poor driving and is not demonstrated to reduce crashes. Concern is it makes it worse. 2017: Anch to Bird segment funded for driver testing research to review passing zone recognition, performance of drivers, whether to change current standards. Segment was audited against current standards. Will be field checked again.	Completed research. Updated short passing and no-passing zone striping. Retained passing zones which work during low traffic periods.
10	PUBLIC LEGISL 2009	Make passing lanes double yellow.	Considered. Not recommended systemwide as it does not command respect, does not guide motorists. Our practice is to stripe for guidance and allow driver judgement, expecting greater compliance and respect. Exception made for Turnagain Hill in 2009 based on fatal crash concentrations unique to hill and this site.	Not recommended.
11	PUBLIC LEGISL 2009	Use transverse markings/ chevron striping along corridor.	Considered with HSIP NHS Delineation project. Considered spot location possibility, applied to Swd MP 88 median, and Turnagain Pass divided Hwy. Continuous application not found in practice.	Not recommended for continuous use.
12	PUBLIC LEGISL 2009	Lower speed limit. One suggestion at 40 MPH. Evaluate Bird and Indian areas at 45 MPH.	Speed limit reductions not accepted effective national practice for solving Safety Corridors. Past zones in rural highway communities have not worked as intended at less than 45 MPH. 2011: Field observations of traffic on the Seward MP 87-90 suggests current speed limits match rural condition of road. MP 88 will be treated individually as per existing devices and pending projects. 2012-2013: Speed Limit Review of Bird and Indian completed. Met w/Community Council May 2013. Final report sent to City, community October 2013. 2015+ Turn lanes in Design	No change recommended
13	PUBLIC LEGISL 2009	Larger speed limit/ TSC signs.	Considered. Wind loading, post sizes would be costly, problematic, and greater targets. Sign legend is already sized for conventional roadway speeds. BEGIN legend is large two post sign. Added education, enforcement	Not recommended.

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			appear to best boost public awareness beyond more engineering features.	
14	PUBLIC LEGISL 2009	Signs to report reckless drivers every 20 miles or signs w/eyes	2011: Installed REDDI CALL 911 signs in Safety Corridors. Program works per GFD, APD, BHP with real field results preventing crashes.	No additional actions.
15	PUBLIC LEGISL 2009, 2011	Build the roads to 4 lanes	2011: Long term projects being pursued for more lanes on all the major corridors. See attached project lists for corridors.	No additional actions.
16	PUBLIC LEGISL 2009, 2011, GFD /ADF 2018	Better marked pullouts. Larger parking/pullout signs/markings. More "Delay of 5 Vehicle signs" or change message	2009: SVT's must meet standard first, more planned above. Signing projects underway above. Newer Seward Hwy pullouts are marked. Missing signs on older ones. Parking addressed with advance signs and signs as projects come through. 2010: Two HSIP projects for pullouts initiated. 2013-2014: Slow Vehicle Turnouts, passing lane upgrades. 2018: Police/fire request to place identifiers (names, coordinates or Mileposts) at pullouts to expedite 911 call locations. DOTPF has planned such signs with each capital project along Turnagain Arm, these occur slowly.	Evaluate expedited method to add and complete MP Markers to identify each pullout during 911 calls all at once, without projects.
17	PUBLIC LEGISL 2009	Build more pullouts	2013-2014: Slow Vehicle Turnouts, passing lane upgrades.	No additional actions.
18	PUBLIC LEGISL 2009	Signs: No texting, No stopping for wildlife, # of road fatalities.	Considered. Sign clutter an issue. No link to texting as the main cause of crashes in corridors. Wildlife stops are part of corridor's scenic purpose. No link to fatal posting and crash reduction effectiveness (see moose program). Corridor space should be reserved for site specific messages, not statewide issues.	Not recommended.
19	PUBLIC LEGISL 2009	Widen, straighten curves in Cooper Landing.	Ongoing: Major road project in final environmental impact statement EIS stages. Crash data shows shoulders also needed. Is a head-on crash concentration area. Environmental Document for new alignments being drafted. Interim design underway with striping visibility tests.	No additional actions.
20	PUBLIC LEGISL 2009	Ferry from Anchorage to Nikiski	MSB ferry was intended for testing this route. MSB ferry cancelled for use.	No additional actions.
21	PUBLIC	Light rail,	Studies completed for ARRC both routes.	No additional

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	LEGISL 2009	Anchorage to Seward, Anchorage to Palmer.	Considered by DOT/PF H2H project.	short term action available by audit.
22	PUBLIC LEGISL 2009; 2010	Eliminate all 3 lane highway segments - confusing. Use 2 or 4 lanes.	Studies show crash reduction value of 3 lane segments. These improved the overall highway flow and travel time. 3 Lanes in Design: Seward Hwy. 4 Lanes in Design: Parks Hwy, KGB Road. Funding for Sterling Hwy 4 lane being sought. Funding needs are documented and being pursued.	No additional actions.
23	PUBLIC LEGISL 2009	Install reflective striping	Best available materials used, durability greatly improving. Upkeep is difficult given plowing conditions. See attached projects list for delineation projects.	No additional actions.
24	PUBLIC LEGISL 2009	Reduce construction delays.	DOT limits to night work, off-peak work and minimizes impact each season, compared to daytime work, weekdays, commuting times. 2012: Some daytime work tested.	No additional actions.
25	PUBLIC LEGISL 2009	Increase road maintenance, staffing. Sanding requests don't all go directly to M&O.	Sanding and staffing is at levels as funded each year. Plowing, sanding are within budget allowed, and are priority level 1 over other winter maintenance.	No additional actions beyond annual funding requests.
26	PUBLIC LEGISL 2009	Plow pullouts during winter months.	Slow Vehicle Turnouts meeting standards, and Passing Lanes are plowed. Other turnouts not meeting speed criteria are selected for plowing based on use. 2016: Pullouts are going to be lower priority than turning lanes and thru lanes due to reduced budgets.	No additional actions.
27	PUBLIC LEGISL 2009	Add lighting, reflectors	Continuous lighting expensive to install, maintain. Not a short term solution. Nighttime crash patterns not dominant, so crash/benefit not established. Lighting depends on legislation, funding for addition, otherwise reserved for high crash areas. See attached project lists for delineation, reflectors.	No additional actions.
28	PUBLIC LEGISL 2009	Consider YOUR SPEED IS ...	2010: Legislated funds for signs. 2015: Signs completed in Safety Corridors.	No additional actions.

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		informational signs such as in Whittier Tunnel	Ongoing M&O required, calibration, power service required. Signs on solar power shut down in winter. 2 or more signs have stopped working. Some signs show errors due to localized radar interference and need occasional adjustment.	
29	PUBLIC LEGISL 2009	Install light up warning signs	2011: Upgraded signing and delineation Regionwide on main highways. Active warning signs are the next step up after static measures. Will reserve for highest crash, anomalous curves only after trying all other low tech measures. Requires significant work to hook up power source and maintain.	No additional actions.
30	Audit Group 2010	Expand cel coverage through Turnagain Pass	Moved to EMS Considerations.	No additional action.
31	Audit Group 2010	Examine pavements to reduce icing	Rut repairs demonstrated to improve plowing, traction. Deicing asphalts being investigated 2011. Rubberized asphalt being tested. 2016: High friction surface treatment will be tested in Construction.	No additional actions.
32	Audit Group 2010	Develop an edge drop standard for Alaska (federal emphasis area)	Safety Corridors repaved by 2010. All with new edges. 2010: M&O repaired/flattened ditches at Big Johns Tesoro. Current studies show no statistically significant benefit in mandating a Safety Edge. However, DOT has drafted a standard drawing for use of devices versus roadside conditions. Safety Edge paving will be considered in that process.	No additional actions.
33	Audit Group 2010	Consider adaptive signal control for special events (federal emphasis area)	2009: Hired signals expert. Building interconnect and web based software, comm. 2010- 2013: Installing upgrade hardware in Mat-Su, Kenai. 2012-2017: Anchorage funded for multiyear change-out. Parks Hwy signal progression started in Nov 2012 and is being adjusted actively.	Timing improvements occurring with hardware upgrades.
34	Audit Group 2010, 2011	Add changeable message boards for Kenai travel at the Wye, Sterling	With AHSO funding, MSCVE obtained portable CMS for the Sterling Weigh Station, delivered in October 2011. No sign planned for the Wye due to M&O costs, other than the portable use.	No additional action without ongoing funding.

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35	Audit Group 2010	Concerned for truck offtracking in Cooper Landing	Paving projects, realignment projects in Design phases. Reviewed curve radii for truck turning with current design projects, geometry is adequate. New reconstruction work recommended for long term. 2015: Paving completed, truck tracking observed and pavement width held the same as before.	No additional actions.
36	AUDIT GROUP 2010	Concerned for Kenai Spur	2006: Last tracking put it at #10 behind 5 other corridors. HSIP evaluation of crashes continuing. No clear solutions as of yet. Project study underway for Kenai Spur options between Soldotna and Sterling. HQ reprogramming of corridor rankings in progress in 2014. 2015: Candidate corridors re-ranked in 2015 Audit. Kenai Spur recommended for further Study of crash characteristics. 2016: Rumble strips and delineators added to pending pavement rehabilitation project.	To be determined under future safety Corridor Candidates screening in 2023.
37	AUDIT GROUP 2011	Finish ARR/Hwy MP conversion.	2006: Done after EMS concern raised. 2012: Rechecked another MP 82 sign, corridor for other signs in 2012 and fixed as needed.	No additional actions.
38	PUBLIC LEGISL 2009	What about wildlife crashes in Safety Corridors, these are a large percentage?	<i>Moved here from EDUCATION CONSIDERATIONS</i> Annual: Brush cutting by DOT/PF as funding allows. Existing media and high crash area signs in use. 3corridors rank as high moose-vehicle crash areas. Multiagency coordination is ongoing. Mitigation is considered in major projects. Wildlife crashes not a significant cause of fatal/major injury crashes, but remain a concern. 2013: SHSP Strategies for wildlife updated.	No additional actions.
39	AUDIT GROUP 2013	Curve N of Rainbow Icy	2013: EMS: Fix curve, super? DOT&PF Swd Hwy MP 99-105 Project will examine super, signing, crash history as part of project design.	No additional actions.
40	Girdwood 2020	2016: No Headlight Signs?	15 new signs installed in 2011 by HSIP funds spring 2014.	Done
41	Girdwood 2020; GFD 2017	2016: Remove MP 109 Waterspout	Community input. Reviewed with DNR, AST, M&O current and past conflicts. Documented mountainside parking encroachment and frequent ped crossing to designated parking.	Removed during earthquake 2018 due to rockfall risk. Posted no

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			Recreation along Arm with off road parking and good judgment is allowed for many uses and leads to ped xing – hiking trailheads, water sports, wildlife viewing, fishing. Complete prohibition requires consistency for all uses and is counter to most uses. 2017: GFD concurs this is a problem location.	parking and removed waterspout.
42	Audit Group 2017	Repair SPEED LIMIT sign at Alyeska SB	Static sign missing. Reinstall sign.	Repairs through M&O
43	Audit Group 2017	Missing Headlights signs KGB	1 st Headlight Sign noted at MP 4.2. Should be one at corridor Start.	KGB signing repairs. New signs built Summer 2017.
44	Audit Group 2017	Improve winter maintenance Sterling	Per KPB Station, M&O using prewetted sands, brine. MDSS smart sensors in trucks are gathering weather data as they drive, along with NOAA, NWS, RWIS and other input data to focus road application of deicing, sanding at best locations, best times, ahead of storms for best performance. This is cutting costs. 56” in 2016-2017 Crown Point was a cost increase, and snow haul increased expense in Seward required work with City.	Continual improvement
45	Audit Group 2017	Mailbox location	Locate mailboxes off main highway. Improves plowing times, and is safer for errant traffic.	Continue current practice with major highway projects. Not in paving preservation scope/budget.
46	Audit Group 2017	Review Sterling Speed Transition	Sterling to Robinson Loop. Under consideration with Design project development for Sterling Hwy Soldotna to Sterling.	Speed transition reviewed and changed in 2018
47	Audit Group 2017	Kenai Spur #2 feasibility?	Would corridor N of Kenai pose a resource problem if it were a Safety Corridor? Requires significant signing and delineation investment. Rumble strips already planned with as much work as possible to mitigate with upcoming MP 12-18 paving preservation in 2017-18.	To be determined under future safety Corridor Candidates screening in 2023.
48	Audit Group 2017	Consider reduced rumble strips?	Depth and width is a common feature. Newer CA, MN Mumble Strip variations are pending in preliminary testing that are considered	Rumble Strip Policy review underway in 2022-

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			effective, less noisier, and slightly shallower. See TRB Webinar 17-03-28 not yet published.	2023.
49	Audit Group 2017	Add RT accel lane at Mackey Lk Rd	Forwarded to Design Team for Sterling Hwy upgrades.	Forwarded to Design Project for evaluation.
50	Girdwood 2020	2016: More guardrail reflectors	Federal funds installed continuous guardrail reflectors in web and on post tops using federal funds regionwide in 2014 – mainly on inlet side.	Standard on all CR coastal guardrail
51	Girdwood 2020	2016: More signing and turnoffs/pullouts to south, incl. AK Wildlife Center, MP 80.5, MP 81.7 Hooligan fishery Bird Creek Motel/Gas Station; Windy Corner	Every federal aid project with signing scope adds pullout signing. Seward Hwy MP 75-90 Design initiated before serious/fatal crashes had occurred. Includes signing for all pullouts and turn lanes for AWCC entrance. AWCC has worked with DOT/PF for a relocated and safer entrance to open in 2017. Project also includes upgrades to 20 Mile signing and Hooligan fishery parking and walkways. Bird Creek businesses have advance signs. DOT/PF has a turn lane project in Design that includes turning lanes and signing using federal safety funds, as well as for Boretide Road in Indian. This Audit shows significant funding in Design for Windy Corner as well.	No additional sources. Continue ongoing project efforts as the principal funding source.
52	Girdwood 2020	2016: More signing and turnoffs on north end for Bird Ridge Trail, Baseball fields Indian; McHugh Creek.	These sites are not currently funded with a major federal project and are significant in scope. M&O tree de-limbing performed at ballfield entrance. DOT/PF is working to schedule future improvements in these areas.	Rehabilitation project completed in 2021 with all new permanent signing.
53	Girdwood 2020	2016: Summer months, much traffic turns left over double yellow lines	Turning left across double yellow lines is a legal maneuver with judgment. Most scenic opportunities are on the west side of the highway. DOT/PF minimizes closure of public opportunities for recreation.	Review with DNR east side pullouts. Seward 98-117 project begun in 2023.
54	Girdwood 2020	2016: Mitigate black ice changes, high wind areas MP 105-107	See item 32 above. DOT/PF is increasing data driven snow and ice responses to maximize use of resources. Seasonal changes regionwide require driver judgment of conditions.	No added plowing action. Examine warning signs at key transition points.
55	Girdwood 2020	2016: Monitor and mitigate Ice	Ice fall is monitored and MP 113.2 detours are placed each winter as space allows. Rockfall is	Multiple rockfall mitigation

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		and rock fall	monitored on M&O drive thrus as staff allows.	projects underway 2021-2023
56	Girdwood 2020	2016: End passing zones before any turn	Standards allow passing on shallow curves as long as visibility criteria is met. These maneuvers have been monitored and successfully observed with good judgment and lighter traffic. DOT/PF is conducting research studies at this time to affect standards which could then lead to reconsideration of passing on some curves.	Shortened and restriped no-passing zones into curves based on latest Research.
57	Knik-Fvw CC	Can Foothills Dr be a signal?	To be reviewed with KGB Centaur-Vine project Design phase, once traffic counts are in and forecasts have been reviewed.	Design plans are for a signal.
58	Knik-Fvw CC	Can Old Knik Rd connect to 3 Bears future signal?	To be reviewed with KGB Centaur-Vine project Design phase, once traffic counts are in and forecasts have been reviewed.	Design plans are for a signal and south connection.
59	AFD	More signs?	DOT/PF is looking into more signing towards crash patterns, starting with KGB Road.	KGB Road signs completed 2017.
60	AFD	Repair bollards at Beluga Pt	Off highway repairs are between DNR and DOT. Outside clear zone.	No Hwy Action. Outside CZ is not a mainline public safety concern. Fwd to DOT/DNR for maintenance.
61	GFD	Why passing in 3 lanes MP 91-94?	Standard to allow driver judgment under lower traffic volumes.	Reasonable use in off peak hours, seasons. Passing lanes NB increased.
62	GFD; Girdwood 2020	2016: More reflectors, both sides, 100% of guardrail	Consider mountainside delineators – have inlet side guardrail reflectors – Turnagain Arm. Federal funds funded 2X the density past reflectors on guardrail.	Consider inland rock bolt reflectors.
63	GFD	Put rumble strips back at Potters Marsh, Bird-Gird	Removed in past with repaving, was on hold for next available areawide rumble strip project. Now we allow rumble strips on a per project basis.	Installed with 1R work as per original installations.
64	MSB EMS	Maximize u-turn capability KGB to shorten fire response. Consider Donna	DOT/PF looking at ½ mile typical gap spacing for left turns/u-turns. Transition between 2 projects solves gaps when both projects are done.	Design is examining median break locations.

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		Dr, Edlund Rd?		
65	Girdwood 2020	2016: Add passing lane NB MP 104-106; MP 110-111 w/o much blasting	Neither site is long enough for a 1 mile passing lane without blasting. Slow Vehicle Turnouts have already been selected for sites that required minimal fill to the inland side at MP 106, 108 and 111.	TBD under reconstruction project begun in 2023 for MP 97-117
66	Girdwood 2020	2016: Add inland lane w/o cutting/blasting at MP 92.7-93.7 and MP 95-97(Bird Pt).	One 6000' passing lane has been added at MP 94-95 NB w/o blasting, or not too close to ARRC. MP 92.7-93.7 encroaches too close to ARRC tracks on curves, would require relocating ARRC. MP 95-97 cuts into material staging area for ARRC, ARRC tunnel, and ARRC ROW/planned double track area.	No additional work without project at this time. Focus is on MP 97-147 project starting in 2023.
67	Girdwood 2020	2016: Build interchange at Alyeska JCT	DOT/PF pursuing interchange options and/or phasing.	In design now
68	Public request 2017	2017: Relocate waterspout	Relocate water through culvert to allow fill from inlet side.	Closed during 2018 Earthquake due to public safety risks.
69	Public Request 2017	2017: Use metering signals to spread out heavy traffic on Turnagain Arm, at entry points	2017: Potter Marsh and Girdwood entry points discussed. Peak weekends in July show that STOP and go control leads to very long lines of cars of 5-7 miles at the Sterling/Seward Wye.	Additional STOP and Go features not recommended. Keep main highway flowing at uniform speeds.
70	Public Request 2017	2017: Clearer headlights signs	2017: END and clearer signs	Consider. See KGB Road
71	GFD	2018: Add Signs	Add NO CEL SERVICE signs? Pending new service change at Hope JCT. Explore with Pullout changes	Check status of changes
72	APD	2022: Boundary Signs	2022: Establish measured mile or municipal boundary signs to guide APD and AST enforcement and regulations.	Pending Construction MP 75-90 Phase II
73	GFD /ADF	2023: MP 88 Boat Launch	Boat launch removed during recent road work. No boat access for water rescue/body recovery of individuals between Bird Point and MP 88. Recommend re-establishing/regrading water access at MP 88 pullout. Current drop-off.	Evaluate regrading options
74	GFD/ ADF	2023: Locate porta-potties during incidents	Traffic closure incidents lead to significant damage, problems for extremely long queues. Can porta-potties be dispatched in response to real-time closures for the duration of closures?	Explore EMS, M&O, contracting feasibility, costs to deploy

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EMS/FIRE CONSIDERATIONS Mat-Su, Kenai, Anchorage Chiefs				
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1	AUDIT GROUP 2010	Improve Preempt emitter equipment for signals	MatSu at 60-65% of fleet emitters working. Ambulances 1 st . All new ALMR equipment as replaced. 1 st EMS vehicle. Not for volunteer private rigs. Still trains for signal approach with full caution/speed reduction. All new equipment gets emitters.	No additional action.
2	AUDIT GROUP 2010	Improve radio communications between stations	<p>Good internal agency radio coverage in Safety Corridors. Older radios no longer a problem. MSB: Looking at more repeaters from MP 9.5 south on Pt. MacKenzie. 2 more in the works. MSB developing master plan for cel towers. Many more private towers going in in the MatSu.</p> <p>AFD: AFD, GFD on ALMR no communications problems. Legacy channels about gone on Turnagain Arm, have all new radios. Solved with changing channels, scanning along Turnagain Arm.</p> <p>KPB: ALMR improved Cooper Landing comm. Uses radio to dispatch first, then ALMR.</p> <p>Emergencies properly routing through Dispatch, not ALMR. Some overlap in Dispatch worked out. Proper incident command channel priority, encryption are in place.</p> <p>DOT reachable by EMS thru ALMR. DOT 100% on ALMR can talk to any camp.</p> <p>2016: GFD concerns for radio gaps at base of Turnagain Arm, up Turnagain Pass, even with ALMR.</p>	Improved with ALMR. Now has one ALMR mobile booster at GFD to fill gaps.
3	AUDIT GROUP 2010	Air ambulances are key to “golden hour” of life saving	2011: Down to one air ambulance service. At Wolf Lake, Mat Su. LifeMed flights, 1 in Soldotna. Mngd. By Providence and YKHC. No availability problems on Kenai Peninsula. “Guardian-“ service on Trunk Road N of 3 Bears no longer in service due to low call volume.	No additional actions.
4	AUDIT GROUP 2010, 2011	Extraction training critical to time.	2010: AFD MacInnes Sta only dedicated truck to extraction equipment, major MOA support. Most training. 8 units have the equipment. New cars always changing structure. Serves	On track. No additional actions.

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			MP 104 N out of Anchorage, Jointly with Girdwood to MP 100. Breakpoint south is at Ingram Creek, but EMS serves farther as needed. GFD: More extraction/training grants in progress for 2012. AFD has instructors to train GFD staff. (\$22k for 30 person training.) 2013: GFD moving to wireless extraction equipment, major improvement. 2011: MSB reports good distribution of equipment. Jaws of life (~\$4800 item) at 4 stations, available on Safety Corridors – esp. KGB.	
5	AUDIT GROUP 2010, 2011	Unclear where dispatches change APD/ Kenai to AFD	Girdwood EMS works south of Ingram in times of need. All calls go through Dispatch, and are coordinated with Soldotna as needed. Clarified. Internal workings ok.	No additional action.
6	AUDIT GROUP 2011	Safety vests for responders GFD and others	Could use in field for improved visibility, shortage of vests. 2015: AHSO grant for \$17,000 in safety vests provided.	Jackets granted in 2015: No additional action.
7	Audit Group 2010	Expand cel coverage through Turnagain Pass to Cooper Landing for 911 call response time improvements. Cooper Landing is all volunteer.	<i>Moved here from ENGINEERING CONSIDERATIONS 2011.</i>	<i>Moved into Regulatory/Policy CONSIDERATIONS 2017.</i>
8	Audit Group 2013	Maintain, enhance training	2013-2014: Training program begun for trainers. Traffic control techniques for highways. Training more drivers and trainees seasonally in GFD.	First responder training begun, ongoing
9	Audit Group 2009	EMS access to Turnagain Arm	GFD: Desires highway access to rescue recreational incidents, other water problems next to highway on Arm. 20 Mile R is limited. 2013-2015: DOT has draft access design under consideration with the Seward Hwy Windy Corner project.	No additional action.
10	Audit Group 2017	Review ALMR usage in MatSu, Kenai	Channels not working out well for MatS EMS use to date. Distribute multiagency guidance on use of ALMR channel switching rather than	Resolve channels

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EMS/FIRE CONSIDERATIONS				
Mat-Su, Kenai, Anchorage Chiefs				
Item	Request From	Suggestion / Comment	Related Actions	Recommendations for further Action
			require new radio frequency bands.	
11	Audit Group 2017	Review EMS service KPB/MOA	KPB ordinance passed supporting mutual aid agreement. MOA and KPB has coordinated. A Hwy Corridor Service area has been established to cover Kenai Anchorage transition.	Done
12	Audit Group 2017	Long term Fire Station Access Sterling	New station planned. Short term direct Sterling Access. Long term – plan on route to Robinson Loop that allows long term signalization, preemption to get onto Hwy.	Plan future site for Robinson Loop option.
13	MSB EMS	Pt Mack Repeater	Look into the possibility for ALMR repeater	Moved to ALMR Working Group Task List
14	MSB EMS	GPS Preempt not fitting in light bars, now it does	Review light bars and emitters with EMS for compatibility with current signal receivers.	Ongoing Preemption Devices issued with projects in Fire Station areas affected
15	Audit Group 2017	Examine sight distance inside curve at Donovan Dr	Reviewed with Construction. Evaluating signing and striping, next initiative package.	2017 Chevron Signing upgrades done. Designed for changes in KGB Phase II.

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REGULATORY CONSIDERATIONS (Executive level considerations, beyond technical/staff authority)				
Item	Request From	Suggestion / Comment	Related Actions	Recommendations for further Action
1	PUBLIC LEGISL 2009	Consider a “scofflaw” law for seizure of vehicles when there is no license or no insurance for the driver.	2009: Houston reports seizure of 17 vehicles within the Safety Corridor and City limits. There is an apparent high incidence of unlicensed/uninsured drivers on Alaska roads. Examine the first cause of investigation to lead to seizure? The measured correlation to severe crashes is uncertain.	No further action.
2	PUBLIC LEGISL 2009	Require CDL for RV’s	Not established: link established between RV’s experience, crashes	No further action.
3	PUBLIC LEGISL 2009	More action on headlight use, make it mandatory	In legislature for review statewide. 1995: Exists for Seward Hwy. 2011: DOT/PF, DPS added requirement to Safety Corridors under executive authority.	No further action.
4	PUBLIC LEGISL 2009	No stopping for wildlife rule and signs.	Wildlife stops are part of corridor’s scenic purpose and Alaska corridors in general.	Not recommended.
5	PUBLIC LEGISL 2009	Double or increase severity of points, sentences, or triple fines for rural driving problems. Consider removing driving privileges 15 years to life when there is a fatal crash.	Fines are doubled in Safety Corridors. Points increase for improper passing. Added points or more extreme penalties requires executive consideration. 2011: Revisited with STSP Update. Safety Corridor results demonstrate serious crash reduction without change in penalties, thus no recommendation from staff.	Not recommended.
6	PUBLIC LEGISL 2009	Write a “No Passing while towing” law	No established overrepresentation of towing vehicles, commercial vehicles and crashes	No further action.
7	PUBLIC LEGISL 2009	Create a stricter tailgate rule.	Like DELAY OF 5 VEHICLES regulations, can be difficult to write a rule that makes sense and is easily observed, enforced in the field. Safety Corridor results demonstrate serious crash reduction without change in penalties, thus no recommendation from staff. Instead, understanding of safer following distances may be lacking. Look at education considerations instead of regulatory work.	Not recommended.

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REGULATORY CONSIDERATIONS (Executive level considerations, beyond technical/staff authority)				
Item	Request From	Suggestion / Comment	Related Actions	Recommendations for further Action
8	PUBLIC LEGISL 2009	Email request to establish multiagency leadership to govern highway safety Set up a Highway Watch Board with agency representatives. Work with Insurance companies.	DOT/PF Strategic Hwy Safety Plan makes recommendations on this. 2006: DOT/PF, DPS has multiagency process for Safety Corridors by legislation.	No other actions at Executive level.
9	PUBLIC LEGISL 2009	Require senior citizen driving tests annually, set age reqmt	2010: Voluntary web “Take the Challenge” on the DOT/PF website. Because crashes also spike for younger drivers, impaired drivers, and new resident drivers, staff recommends not singling out one age group for required testing. Instead, any testing program should be considered as part of the entire renewal program for all users.	Not recommended for Seniors only.
10	PUBLIC LEGISL 2009	Increase the gas tax and revenues for highway work	There is no dedicated state funding for highway work. Alaska’s current fuel tax would provide less than 15 percent of the annual highway program. By itself, the current gas tax will not be sufficient to meet Alaska’s highway infrastructure needs.	No new actions. State and federal funding sources reexamined annually at the Executive level.
11	PUBLIC LEGISL 2009	Ban cell phone use [in vehicles or while driving]	Studies show it “impairs” driving. Legislation has occurred for some restrictions on cel phone use in terms of texting and driving.	Has been considered at Legislative Level.
12	PUBLIC LEGISL 2009	Run breathalyzer checkpoints on each end of the highway, remove most of the problem.	Cannot run without legislative authorization. Recommend testing BHP impact, DUI Teams during earlier hours, and increased REDDI reporting, as well as bar checks.	Not recommended.
13	AUDIT GROUP 2011	Is it possible to mandate cel phone service in unserved main corridors?	Such as Turnagain Pass. Can 911 be a required service as a means of doing business in Alaska? Added cost or existing 911 surcharges?	No mandate authority. Executive level exploring 911 service options.

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REGULATORY CONSIDERATIONS (Executive level considerations, beyond technical/staff authority)				
Item	Request From	Suggestion / Comment	Related Actions	Recommendations for further Action
14	PUBLIC LEGISL 2009	Mandatory defensive driving, or education in schools	<p><i>Moved from EDUCATION CONSIDERATIONS 2011.</i></p> <p>Driver performance is part of driver’s test. Driver’s training is optional.</p> <p>2011: A driver education strategy is in the Strategic Traffic Safety Plan (STSP) Update: “Educate youth on Responsible Behavior and Driving”.</p> <p>Because crashes also spike for younger drivers, impaired drivers, and new resident drivers, staff recommends not singling out one age group for required testing. Instead, any testing program should be considered as part of the entire renewal program for all users.</p>	<p>No new actions. 2015 State budgets means this remains a deferred consideration for future Legislative and Executive officials.</p>
15	Audit Group 2010	Expand cel coverage through Turnagain Pass to Cooper Landing for 911 call response time improvements. Cooper Landing is all volunteer.	<p><i>Moved here from ENGINEERING CONSIDERATIONS 2011. Moved into Regulatory/Policy CONSIDERATIONS 2017.</i></p> <p>2010: Mat-Su Borough has a Tower Master Plan for radio, cel, ALMR. MP 7 south on KGB Road becomes hit or miss for cel signal. Other Safety Corridors have coverage.</p> <p>Date: AHSO has investigated crashes versus coverage areas.</p> <p>2013: DOA explored status of private cel service with phone companies. No plan to fill gaps at this time. GFD supports more callboxes as an option, but cel coverage preferable.</p> <p>2013 Governor’s Safety Initiative assigns callbox review for consideration, expansion potential.</p> <p>2016: Staffing levels and coverage between Girdwood and Cooper Landing are of concern, re-staffing efforts underway.</p> <p>2017: Continuing concern – elevated to Governor’s Safety Initiatives 2017</p>	<p>Regulatory/ Policy consideration have to occur at Executive/Legislative level in order to resolve.</p>
16	AFD	Radar enforcement cameras?	<p>Speed signs in place have this capability. Actual use for enforcement requires legislation.</p>	<p>Defer to Executive/Legislative level in order to resolve.</p>

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LEAD AGENCIES

DOT/PF and DPS SAFETY CORRIDOR REVIEW TEAM

Name	Title	Agency	Phone (907)	email
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OTHER AGENCY ADVISORS (EMS, ENFORCEMENT, EDUCATION):

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Chief Andre Achee	Chief	Whittier PD	472-2327 X6;	policechief@whittieralaska.gov
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Certificate Of Completion

Envelope Id: AA91E1D984AB4945ADFF707B46ACC01B	Status: Completed
Subject: Complete with DocuSign: 23-04-18_2022_Safety_Corridors_AUDIT_ROUTING_to_DOTPF Commissioner9.pdf	
Source Envelope:	
Document Pages: 56	Signatures: 0
Certificate Pages: 3	Initials: 1
AutoNav: Enabled	Envelope Originator:
Envelope Stamping: Disabled	Caro Rosier-Polley
Time Zone: (UTC-09:00) Alaska	PO Box 110206
	Juneau, AK 99811
	caro.rosier-polley@alaska.gov
	IP Address: 136.226.54.248

Record Tracking

Status: Original 4/21/2023 4:45:23 PM	Holder: Caro Rosier-Polley caro.rosier-polley@alaska.gov	Location: DocuSign
Security Appliance Status: Connected	Pool: StateLocal	
Storage Appliance Status: Connected	Pool: State of Alaska	Location: DocuSign

Signer Events

Ryan Anderson
ryan.anderson@alaska.gov
State of Alaska
Security Level: Email, Account Authentication (None)

Signature


Signature Adoption: Uploaded Signature Image
Using IP Address: 142.147.65.54

Timestamp

Sent: 4/21/2023 4:52:17 PM
Viewed: 4/22/2023 9:50:05 AM
Signed: 4/22/2023 9:50:18 AM

Electronic Record and Signature Disclosure:

Accepted: 9/16/2022 8:28:28 AM
ID: 0e0865b3-66fe-4128-a526-28275fb5c7c1
Company Name: State of Alaska

In Person Signer Events	Signature	Timestamp
Editor Delivery Events	Status	Timestamp
Agent Delivery Events	Status	Timestamp
Intermediary Delivery Events	Status	Timestamp
Certified Delivery Events	Status	Timestamp
Carbon Copy Events	Status	Timestamp
Witness Events	Signature	Timestamp
Notary Events	Signature	Timestamp
Envelope Summary Events	Status	Timestamps
Envelope Sent	Hashed/Encrypted	4/21/2023 4:52:17 PM
Certified Delivered	Security Checked	4/22/2023 9:50:05 AM
Signing Complete	Security Checked	4/22/2023 9:50:18 AM
Completed	Security Checked	4/22/2023 9:50:18 AM

Payment Events	Status	Timestamps
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Electronic Record and Signature Disclosure

ELECTRONIC RECORD AND SIGNATURE DISCLOSURE

Please read this Electronic Records and Signature Disclosure (ERSD). It concerns your rights regarding electronically undertaking, and the conditions under which you and the State of Alaska agree to electronically undertake, the transaction to which it relates (the “TRANSACTION”).

Consent to Electronically Undertake the TRANSACTION

You can electronically undertake the TRANSACTION only if you confirm that you meet the following requirements by selecting the box next to “I agree to use electronic records and signature” (the “AGREE BOX”):

1. you can fully access and have read this ERSD;
2. you can fully access all of the information in the other TRANSACTION records;
3. you can retain all of the TRANSACTION records in a form that you will be able to fully access for later reference;
4. you consent to undertake the TRANSACTION electronically; and
5. you are authorized to undertake the TRANSACTION. (Please note that falsely undertaking the TRANSACTION may subject you to civil liabilities and penalties and/or to criminal penalties.)

If you cannot or are not willing to confirm each of these five things, do not select the AGREE BOX.

Withdrawing Consent

If you select the AGREE BOX, you can withdraw your consent to electronically undertake the TRANSACTION at any time before you complete the TRANSACTION: simply do not finalize it. The only consequence of withdrawing your consent is that you will not finalize the TRANSACTION.

If you select the AGREE BOX, your consent will apply only to this TRANSACTION. You must separately consent to electronically undertake any other transaction with the State of Alaska.

Paper Option for Undertaking the TRANSACTION

You may undertake the TRANSACTION with the State of Alaska using paper records. (State of Alaska employees who want to undertake the TRANSACTION in paper should contact the agency responsible for the TRANSACTION.) Print the paper records on the website of the State of Alaska agency responsible for the TRANSACTION, or request them from the agency. The State of Alaska homepage is at <http://alaska.gov/>.

Copies of TRANSACTION Records

After completing the TRANSACTION but before closing your web browser, you should download the TRANSACTION records. Or you can download the records within 30 days after

completing the TRANSACTION using the link in the DocuSign email sent to the email address you used to complete the TRANSACTION. The State of Alaska will not provide a paper copy of the TRANSACTION records as part of the TRANSACTION. Under the Alaska Public Records Act (APRA), AS 40.25.100–.295, you can request a copy from the agency responsible for the TRANSACTION, but if too much time has passed, the agency may no longer have the records when you make your request. If required under the APRA, the agency will charge a fee.

Required Hardware and Software

For the minimum system requirements to electronically undertake the TRANSACTION, including accessing and thereby retaining the TRANSACTION records, visit <https://support.docusign.com/guides/signer-guide-signing-system-requirements>. These requirements may change. In addition, you need access to an email account.

How to Contact the State of Alaska

To ask a question on this ERSD or the DocuSign document generated after you complete the TRANSACTION or on using DocuSign to electronically undertake the TRANSACTION, contact the Alaska Department of Administration at either of the following addresses:

State of Alaska
Department of Administration
550 West 7th Avenue
Suite 1970
Anchorage, AK 99501
Reference: DocuSign

doa.commissioner@alaska.gov
Subject: DocuSign

To ask any other question on the TRANSACTION records or to update the information for contacting you electronically, contact the State of Alaska agency responsible for the TRANSACTION using the contact information in the TRANSACTION records or, if those records contain no contact information, using the contact information on the agency's website. Again, the State of Alaska homepage is at <http://alaska.gov/>.