

Appendix B Detailed Project Data Sheets for Recommended Solutions

#1: McCarthy Road MP 0 to 21 Drainage Improvements

Project Name	McCarthy Road MP 0 to 21 Drainage Improvements					
	1		Γ			
Priority	High		Priority is based	•		
			related to improving safety, maintaining			
			reliable access, and improving infrastructure			
			conditions along	the road.		
			During outreach	, the public iden	tified	
			drainage and ro	adway cross sect	tions as some	
			of the highest p	riorities to addre	ess.	
Timeline	Short (less tha	n five years)	Drainage improv	ements general	ly cost less	
			than rehabilitati	on or reconstruc	ction projects,	
			which may make	e it easier to fun	d and	
	implement sooner.					
Scope	Construct or re	e-establish di	tches along the M	cCarthy Road. A	dd cross	
	culverts. Raise	the road in s	elect areas where	necessary to im	prove	
	drainage. Clea	r roadside bri	ush and vegetatio	n.		
Description	Construct drain	nage improve	ements along the	McCarthy Road f	from the rock	
	cut east of Chi	tina to appro	ximately 4 miles e	ast of the Kusku	lana River	
	crossing (MP 0	to 21). Whe	re necessary, worl	k would include	clearing or	
	adding ditches	along the ro	ad, adding or fixin	g cross culverts,	raising the	
	road as neede	d to accomm	odate new culvert	s, and clearing r	oadside brush	
	and vegetation	١.				
Budget	Year 1	Year 2	Year 3	Year 4+	TOTAL	
Design (pre- and post- env)	\$ 382,200	\$254,80	0		\$ 637,000	
Utilities					\$ -	
Right of Way					\$ -	
Construction			\$6,364,475		\$6,364,475	
TOTAL	\$382,200	\$254,80	0 \$6,364,475	\$	\$7,001,475	
Funding						
Potential Funding Sources	PROTECT form	ula funds, ST	BG, NHPP (only fo	r protective feat	tures such as	
_	adding drainag	ge structures)	, PROTECT discret	ionary grant, FL	ΑP	
Potential Lead Agency Sponsor	DOT&PF					
Potential Project Partners	NPS, WFL					
Environmental	Valu	ie		Comments		
Anticipated Environmental Doc	CE					
Section 4(f) involvement?	None anticipat	ed				
Permits Required	Yes		USACE Section 4	.04 Permit; ADF&	&G Fish	
•			Habitat Permit	·		
Draft Purpose & Need	The purpose o	f the project	is to ensure safer	and more reliab	le access for	
	roadway users	by improving	g drainage along t	he McCarthy Ro	ad.	
	Identified drain	nage needs (i	ssues) include lac	k of ditches or p	lugged ditches	
	through most	of this stretch	of the corridor; I	acking or damag	ged culverts;	
	_		ere for water to g			
			mafrost exists up			
	Bluffs. Drainage issues have resulted in deterioration of the road, safety					
	Bluffs. Drainag	e issues have	resulted in deter	ioration of the r	oad, safety	
	_		resulted in deter creased maintena		oad, safety	
TOTAL Funding Potential Funding Sources Potential Lead Agency Sponsor Potential Project Partners Environmental Anticipated Environmental Doc Section 4(f) involvement? Permits Required	PROTECT form adding drainage DOT&PF NPS, WFL Valu CE None anticipate Yes The purpose of roadway users Identified drain through most water on road snow removal.	ula funds, ST ge structures) ie f the project by improving nage needs (i of this stretch and/or nowh	USACE Section 4 Habitat Permit is to ensure safer g drainage along t ssues) include lac n of the corridor; I	r protective feat cionary grant, FL. Comments O4 Permit; ADF8 and more reliab he McCarthy Ro k of ditches or pl acking or damag go; and insufficie hill of the road a	\$6,364,479 \$7,001,479 tures such as AP RG Fish le access for ad. lugged ditches ged culverts; and room for t Kotsina	

Project Name	McCarthy Road MP 0 to 21	Drainage Improvements		
	raise the roadway in select	areas would improve reliability of the road and		
	safety for travelers and red	uce maintenance costs.		
List Assumptions, Unknowns,	Likely contained within	the existing ROW, reducing coordination efforts		
Other Environmental Impacts	and chances of delay.			
	 A Native allotment extends into the road ROW; up to 0.45 acres may be impacted. Future design will aim to minimize or avoid these impacts when identifying the areas for improvement. 			
	There are no known AH reveal unrecorded sites	RS sites; however future consultation may .		
		ground is located east of the Copper River near Bridge Wayside near MP 17.3 is owned and		
	 There are two RS 2477s [Billum's] Crossing) and 	(Chitina River-Strelna Trail and Bellum's two 17b easements.		
	Up to six acres of NWI-r	mapped wetlands (freshwater emergent		
	wetlands, and riverine of	designations) may be impacted.		
	Road crosses anadromo	ous streams (Copper River and Strelna Creek).		
	 Consider migratory birds and preconstruction surveys. Consider revegetation plan; more than 100 invasive plants have been identified. 			
Right of Way	Value	Comments		
Confidence in ROW Estimate	None	No ROW impacts anticipated.		
Utilities	Value	Comments		
Confidence in Utility Estimate	None	No utility impacts anticipated.		
Bridge	Value	Comments		
Bridge Work Included	No	No bridge work anticipated.		
Design Notes				
List Assumptions, Unknowns, etc	(by M&O, Public, Stakehold and high-level drainage mo- assumed to be improved. C project footprint. Drainage roadway undisturbed when	cus on areas identified to be in poor condition ers, Project Team). Based on identified areas deling, about 50% of project corridor is learing and grubbing to be completed for entire projects to install ditching and leave existing appropriate. Where not appropriate, road is		
	inch structural section (6-in	for culvert. In areas where road is raised, 36-ch surface course, 30-inch borrow) provided. All nch in size and installed with thaw pipe.		
Maintenance	-	· ·		
List Assumptions, Unknowns, etc		ns with drainage and road condition issues. nage, and brushing will reduce maintenance		

#2: McCarthy Road MP 21 to 43 Drainage Improvements

Project Name	McCarthy Road MP 21 to 43 Drainage Improvements					
Priority	High		Priority is based on resolving key needs related to improving safety, maintaining reliable access, and improving infrastructure conditions along the road. During outreach, the public identified drainage and roadway cross-sections as some of the highest priorities to address. This project could be the highest priority among the three drainage projects due to the numerous locations identified as frequently experiencing glaciation issues.			
Timeline	Short (less that years)		Drainage improvements generally cost less than rehabilitation or reconstruction projects, which may make it easier to fund and implement sooner.			
Scope		e-establish the the road in	ditches a	along the areas whe	McCarthy Roadere necessary to	
Description	Construct drainage improvements along the McCarthy Road from approximately 4 miles east of the Kuskulana River crossing to east of Lakina River (MP 21 to 43). Where necessary, work would include clearing or adding ditches along road, adding or fixing cross culverts, raising the road as needed to accommodate new culverts, and clearing brush and vegetation.					g to east of I include ss culverts,
Budget	Year 1	Year 2	Y	ear 3	Year 4+	TOTAL
Design (pre- and post- env)	\$ 339,600	\$226,40	00			\$ 566,000
Utilities						\$ -
Right of Way		\$350,00				\$350,000
Construction				658,152		\$5,658,152
TOTAL	\$ 339,600	\$576,40	00 \$5,	658,152	\$ -	\$6,574,152

Potential Funding Sources	PROTECT formula funds, STBG, NHPP (only for protective features),
	PROTECT discretionary grant, FLAP
Potential Lead Agency Sponsor	DOT&PF
Potential Project Partners	NPS, WFL

Environmental	Value	Comments
Anticipated Environmental Doc	CE	
Section 4(f) involvement?	Potential for involvement	AHRS sites present in close vicinity (two sites were previously determined not eligible; two sites have no determination of eligibility). Adjacent National Park Service land (Gilahina Trestle Wayside).
Permits Required	Yes	USACE Section 404 Permit; ADF&G Fish Habitat Permit

Project Name	McCarthy Road MP 21	to 43 Drainage Improvements		
Draft Purpose & Need List Assumptions, Unknowns, Other Environmental Impacts	outside of the road ROW on NPS land. DOT&PF and NPS in			
	 outside of the road ROW on NPS land. DOT&PF and NPS interesolve the ROW discrepancy, so the road ROW incorporates existing road location. Native allotments extend into the road ROW; up to 3.87 acre be impacted. There are four known AHRS sites in the area; future consultationary reveal unrecorded sites. The NPS-owned and maintained Gilahina Trestle Wayside ne 29 and the Crystalline Hills Trailhead near MP 34.8 (located rof the road) may be impacted by work in the area. There are no RS 2477s or 17b easements. The public has requested a spring that provides access to driwater near MP 36.4 be avoided. Up to 6 acres of NWI-mapped wetlands (freshwater emerger wetland and freshwater forested/ shrub wetland) may be impacted. Road crosses anadromous streams (Chokosna lake outlet, Chokosna River and its multiple tributaries, Gilahina River, R Lake Creek [also referred to as Ruth Creek], and Crystal Cree 			
	 River and Chokosna River. ADF&G designates five of the culverts a likely deficient for fish passage. Consider migratory birds and preconstruction surveys. Consider revegetation plan; more than 150 invasive plants have been identified. 			
Right of Way	Value	Comments		
Confidence in ROW Estimate	Moderate	The proposed project footprint extends about 2.34 acres outside of the road ROW. For a full 100-foot ROW (that includes the project footprint), this would consist of 4.7 acres. DOT&PF ROW provided SSE estimate in March 2025.		
Utilities	Value	Comments		
Confidence in Utility Estimate	None	No utility impacts anticipated.		
Bridge	Value	Comments		
Bridge Work Included	No	No bridge work anticipated.		

Project Name	McCarthy Road MP 21 to 43 Drainage Improvements
Design Notes	
List Assumptions, Unknowns, etc	Drainage improvements focus on areas identified to be in poor condition (by M&O, Public, Stakeholders, Project Team). Based on identified areas and high-level drainage modeling, about 60% of project corridor is assumed to be improved. Clearing and grubbing to be completed for entire project footprint. Drainage projects to install ditching and leave existing roadway undisturbed where appropriate. Where not appropriate, road is raised to provide clearance for culvert. In areas where road is raised, 36-inch structural section (6-inch surface course, 30-inch borrow) provided. All drainage culverts to be 24-inch in size and installed with thaw pipe.
Maintenance	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
List Assumptions, Unknowns, etc	M&O has identified locations with drainage and road condition issues. Improvements to road, drainage, and brushing will reduce
	maintenance effort.

#3: McCarthy Road MP 43 to 64 Drainage Improvements

Project Name	McCarthy Road MP 43 to 64 Drainage Improvements					
Priority	High		-	is based on res		
			improving safety, maintaining reliable access, and improving infrastructure conditions along the road			
			_	outreach, the p		-
				ay cross-sections	s as some of the	highest
				es to address.		
Timeline	Short (less that			ge improvement	•	
	years)			itation or recon		•
				t easier to fund	•	
Scope				es along the Mc	•	
				ct areas where r	, ,	orove
	drainage. Clear	r roadside	e brush	and vegetation	•	
Description				ents along the M	•	
				nnicott Subdivis		•
	•			clearing or add	-	_
		_		raising the road		ccommodate
	new culverts, a	and clearir	ng brus	sh and vegetatio	n.	
Budget	Year 1	Year	2	Year 3	Year 4+	TOTAL
Design (pre- and post- env)	\$ 469,800	\$313	3,200			\$783,000
Utilities						\$ -
Right of Way						\$ -
Construction				\$ 7,827,427		\$ 7,827,427
TOTAL	\$ 469,800	\$313	3,200	\$7,827,427	\$ -	\$8,610,427

Potential Funding Sources	PROTECT formula funds, PROTECT discretionary grant, FLAP, STBG, NHPP				
	(only for protective features)				
Potential Lead Agency Sponsor	DOT&PF				
Potential Project Partners	NPS, WFL				

1 oterician i roject i ai tirero	5, =	
Environmental	Value	Comments
Anticipated Environmental Doc	CE	
Section 4(f) involvement?	Yes	AHRS sites present in close vicinity (3 sites have no determination of eligibility).
Permits Required	Yes	USACE Section 404 Permit; ADF&G Fish Habitat
		Permit
Draft Purpose & Need	roadway users by importance in the lacking or damaged cut to go. There are a coupling the wing a concern. Drainage safety concerns for drift improving and constructions.	ecting new drainage features and adding material to elect areas would improve reliability and safety for

Duciest Name	MaCauthy Dand MD 42	D to CA Ducinosa Improvements			
Project Name	-	3 to 64 Drainage Improvements			
List Assumptions, Unknowns, Other Environmental Impacts	 Likely contained w and chances of de 	vithin the existing ROW, reducing coordination efforts lay.			
	There are three kn	nown AHRS sites in the area; future consultation may			
	reveal unrecorded	sites.			
	by the NPS. The va	e near MP 55.2 is located on state land and managed ault toilet facilities near the swimming hole vicinity are McCarthy Area Council.			
	• There is one RS 2477 (Nikolai Mine Trail) and no 17b easements i area.				
	· · · · · · · · · · · · · · · · · · ·	NWI-mapped wetlands (freshwater emergent ster forested/ shrub wetlands, and riverine be impacted.			
	 Road crosses anadromous streams (Long Lake Creek/Outlet, Long LacCreek/Tributary, Kennicott River, near the swimming hole, and CleaCreek). Road crosses six additional streams with no assigned AWC stream number (a second Long Lake Creek/ Tributary, three unnamed cross Tractor Creek, and Swift Creek). ADF&G identifies these six culverts likely deficient fish passage culverts. 				
	_	y birds and preconstruction surveys. Consider nearly 200 invasive plants have been identified.			
Right of Way	Value	Comments			
Confidence in ROW Estimate	None	No ROW impacts anticipated.			
Utilities	Value	Comments			
Confidence in Utility Estimate	None	No utility impacts anticipated.			
Bridge	Value	Comments			
Bridge Work Included	No	No bridge work anticipated.			
Design Notes	I.	·			
List Assumptions, Unknowns, etc	M&O, Public, Stakehol high-level drainage mo be improved. Clearing footprint. Drainage pro undisturbed where ap provide clearance for o structural section (6-in	Its focus on areas identified to be in poor condition (by Iders, Project Team). Based on identified areas and odeling, about 65% of project corridor is assumed to and grubbing to be completed for entire project ojects to install ditching and leave existing roadway propriate. Where not appropriate, road is raised to culvert. In areas where road is raised, 36-inch inch surface course, 30-inch borrow) provided. All the 24-inch in size and installed with thaw pipe.			
Maintenance					
List Assumptions, Unknowns, etc		cations with drainage and road condition issues. I, drainage, and brushing will reduce maintenance			

#4: McCarthy Road MP 0 to 15 Rehabilitation (from rock cut near Chitina to Strelna Creek)

Project Name	McCarthy Road	d MP () to 15	Rehabilitation			
Priority	High		Priority is based on resolving key needs related to improving safety, maintaining reliable access, and improving infrastructure conditions along the road. During outreach, the public identified drainage and roadway cross-sections as some of the highest priorities to address.				
Timeline	Medium (5+ ye	Medium (5+ years) Rehabilitation projects are not likely sooner than standalone drainage improjects largely due to higher cost.					
Scope	culverts). Add i geometry (redi	Widen the McCarthy Road and add drainage improvements (like ditches and culverts). Add material to raise road in areas with poor conditions. Improve geometry (reduce curves and steep grades) to meet project design criteria. Clear roadside brush and vegetation. Add/replace signs and mile markers.					
Description	Chitina to Strel adding materia material over t	Rehabilitate the McCarthy Road from near the rock cut located east of Chitina to Strelna Creek (MP 0 to 15). Where necessary, work would include adding material to widen and/or raise the road (add 2 to 3 feet of gravel material over the existing road), improving drainage (such as constructing or re-establishing ditches, culverts), clearing roadside brush and vegetation,					
Budget	Year 1		ar 2	Year 3	Year 4+	TOTAL	
Design (pre- and post- env)	\$ 880,200	\$ 58	6,800			\$ 1,467,000	
Utilities	, ,	•	,			\$-	
Right of Way							
Construction	l i					\$ -	
				\$ 8,796,668	\$ 5,864,445		
TOTAL	\$ 880,200	\$ 58	6,800	\$ 8,796,668 \$ 8,796,668	\$ 5,864,445 \$ 5,864,445	\$ -	
Funding	\$ 880,200	\$ 58	6,800			\$ - \$ 14,661,113	
	PROTECT form	ula fur ures),	nds (for	\$ 8,796,668 drainage featur		\$ - \$ 14,661,113 \$ 16,128,113 (only for	
Funding	PROTECT form protective feat	ula fur ures),	nds (for	\$ 8,796,668 drainage featur	\$ 5,864,445 res), STBG, NHPP	\$ - \$ 14,661,113 \$ 16,128,113 (only for	
Funding Potential Funding Sources	PROTECT form protective feat FLAP, HSIP, BU	ula fur ures),	nds (for	\$ 8,796,668 drainage featur	\$ 5,864,445 res), STBG, NHPP	\$ - \$ 14,661,113 \$ 16,128,113 (only for	
Funding Potential Funding Sources Potential Lead Agency Sponsor	PROTECT form protective feat FLAP, HSIP, BU DOT&PF	ula fur ures),	nds (for	\$ 8,796,668 drainage featur CT discretionary	\$ 5,864,445 res), STBG, NHPP	\$ - \$ 14,661,113 \$ 16,128,113 (only for	

Section 4(f) involvement?

Permits Required

No

Yes

USACE Section 404 Permit; ADF&G Fish Habitat Permit

Project Name	McCarthy Road MP 0 to 15 Rehabilitation					
Draft Purpose & Need	The purpose of the project is to ensure safer and more reliable access fo					
	roadway users by mo	eeting design standards (such as addressing narrow				
		ht lines, road curvature, and steep grades) and				
		along the McCarthy Road. Needs arise from the				
	following:					
		ow in places and needs to be widened to improve				
	safety. The road also has sharp curves and steep grades in locations;					
	reducing these would improve safety.					
		rous drainage issues, which partly can be attributed to				
		hawing permafrost exists uphill of the road at Kotsina				
		rater runoff that is unable to drain contributes to poor				
		Poor drainage has led to deterioration of the road,				
		by drivers, and increased maintenance costs. The caff have indicated substantial maintenance issues.				
		public have cited speeding as a concern.				
		mproving and/or constructing new drainage features				
		ts), and adding material to raise the roadway in select				
		eliability and safety for travelers and reduce				
	· ·	Adding speed limit signs and mile markers are intended				
	to improve safety fo					
List Assumptions, Unknowns,		within the existing ROW, reducing coordination efforts				
Other Environmental Impacts	and chances of delay.					
	A Native allotment extends into the road ROW; up to 0.6 acres may be					
	impacted. Future	e design will aim to minimize or avoid these impacts				
	when identifying	the areas for improvement.				
	There are no known	own AHRS sites; however future consultation may reveal				
	unrecorded sites					
	 The Copper River Campground is located east of the Copper River near MP 1.6. 					
	There are two Rs	S 2477s (Chitina River-Strelna Trail and Bellum's				
	[Billum's] Crossii	ng) and two 17b easements.				
	• Up to 4 acres of	NWI-mapped wetlands (freshwater emergent wetlands,				
	freshwater fores	ted/ shrub wetlands, and riverine designation) may be				
	impacted.					
		adromous streams (Copper River and Strelna Creek).				
		ory birds and preconstruction surveys. Consider				
	revegetation plan; nearly 100 invasive plants have been identified					
Right of Way	Value	Comments				
Confidence in ROW Estimate	None	No ROW impacts anticipated.				
Utilities Confidence in Utility Cotionate	Value	Comments				
Confidence in Utility Estimate	None	No utility impacts anticipated.				
Bridge	Value	Comments				
Bridge Work Included	No	No bridge work anticipated.				

Project Name	McCarthy Road MP 0 to 15 Rehabilitation
Design Notes	
List Assumptions, Unknowns, etc	Rehab focuses on improving areas identified to be in poor condition (by M&O, Public, Stakeholders, Project Team). Based on identified areas and high-level roadway modeling, about 50% of project corridor is assumed to be improved. Road widened to 24-ft width. In areas where road is raised, 36-inch structural section (6-inch surface course, 30-inch borrow) provided. Clearing and grubbing to be completed for entire project footprint. All drainage culverts to be 24-inch in size and installed with thaw pipe.
Maintenance	
List Assumptions, Unknowns, etc	M&O has identified locations with drainage and road condition issues. Improvements to road, drainage, and brushing will reduce maintenance effort.

#5: McCarthy Road MP 15 to 27 Rehabilitation (between Strelna Creek and Chokosna River)

Project Name	McCarthy Road MP 15 to 27 Rehabilitation					
Priority	High		Priority is based on resolving key needs related to			
			-	ng safety, mainta	_	
			•	ng infrastructure		•
			_	utreach, the pu		_
				cross-sections	as some of the h	nighest
			•	to address.		
Timeline	Medium (5+ ye	ars)		tation projects a	•	
				han standalone		vement
Soono	Widon the McC	arthy		largely due to h		ko ditchos and
Scope				l add drainage ir road in areas w	•	
	<u>-</u>			steep grades) to	•	•
				tation. Add/repl		_
Description				d between Stre		
			•	ry, work would i		
				dd 2 to 3 feet of	_	
	existing road), i	existing road), improving drainage (such as constructing or re-establishing				
	ditches and culverts), clearing roadside brush and vegetation, and adding or					
	replacing signage.					
Budget	Year 1	Y	ear 2	Year 3	Year 4+	TOTAL
Design (pre- and post- env)	\$ 928,800	\$	619,200			\$ 1,548,000
Utilities						\$ -
Right of Way						\$ -
Construction				\$9,286,920	\$ 6,191,280	\$15,478,200
TOTAL	\$ 928,800	\$	619,200	\$9,286,920	\$6,191,280	\$17,026,200
Funding						
Potential Funding Sources			-	ainage features	• • • • • • • • • • • • • • • • • • • •	•
			PROTECT	discretionary gr	ant (for drainag	e features),
	HSIP, FLAP, BUI	ILD				
Potential Lead Agency Sponsor	DOT&PF					
Potential Project Partners	NPS					
Environmental	Value			Co	mments	
Anticipated Environmental Doc	CE					
Section 4(f) involvement?	Potential for		AHRS sites present in close vicinity (one site was			
	involvement		previously determined not eligible and one site had			one site had
			no determination of eligibility).			
Permits Required	Yes		USACE Section 404 Permit; ADF&G Fish Habitat Permit			

Project Name	McCarthy Road MP	15 to 27 Rehabilitation			
Draft Purpose & Need	 The purpose of the project is to ensure safer and more reliable access for roadway users by meeting design standards (such as addressing narrow road width, poor sight lines, road curvature, steep grades) and improving drainage along the McCarthy Road. Needs arise from the following: The road is narrow in places and needs to be widened to improve safety. The road also has sharp curves and steep grades in locations; reducing these would improve safety. There are numerous drainage issues, which partly can be attributed to lack of ditches. Poor drainage has led to deterioration of the road, safety concerns by drivers, and increased maintenance costs. Widening the road, improving or constructing new drainage features (like ditches or culverts), and adding material to raise the roadway in select area would improve reliability and safety for travelers and reduce maintenance costs. Adding speed limit signs and mile markers are intended to improve safety for travelers. 				
List Assumptions, Unknowns, Other Environmental Impacts	Likely contained within the existing ROW, reducing coordination eff				
Right of Way	Value	n; nearly 100 invasive plants have been identified. Comments			
Confidence in ROW Estimate	None	No ROW impacts anticipated.			
Utilities	Value	Comments			
Confidence in Utility Estimate	None	No utility impacts anticipated.			
Bridge	Value	Comments			
Bridge Work Included	No	No bridge work anticipated.			
Design Notes	.1				
List Assumptions, Unknowns, etc	Rehab focuses on improving areas identified to be in poor condition (by M&O, Public, Stakeholders, Project Team). Based on identified areas and high-level roadway modeling, about 65% of project corridor is assumed to be improved. Road widened to 24-ft width. In areas where road is raised, 36-inch structural section (6-inch surface course, 30-inch borrow) provided. Clearing and grubbing to be completed for entire project footprint. All drainage culverts to be 24-inch in size and installed with thaw pipe.				
Maintenance		* * P P *			
List Assumptions, Unknowns, etc		ocations with drainage and road condition issues. ad, drainage, and brushing will reduce maintenance			
Natailad Project Data Sheets Annand	l: D 40	May 2025			

#6: McCarthy Road MP 27 to 44 Rehabilitation (between Chokosna River and Lakina River)

Project Name	McCarthy Road MP 27 to 44 Rehabilitation					
Priority	High		Priority is based on resolving key needs related to improving safety, maintaining reliable access, and improving infrastructure conditions along the road. During outreach, the public identified drainage and roadway cross-sections as some of the highest priorities to address.			
Timeline	Medium (5+ ye	ars)	Rehabilitation projects are not likely to advance sooner than standalone drainage improvement projects largely due to higher cost.			
Scope	Widen the McCarthy Road and add drainage improvements (like ditches and culverts). Add material to raise road in areas with poor conditions. Improve geometry (reduce curves and steep grades) to meet project design criteria. Clear roadside brush and vegetation. Add/replace signs and mile markers.					onditions. project design
Description	Rehabilitate the McCarthy Road between Chokosna River and Lakina River (MP 27 to 44). Where necessary, work would include adding material to widen and/or raise the road (add 2 to 3 feet of gravel material over the existing road), improving drainage (such as constructing or re-establishing ditches and culverts), clearing roadside brush and vegetation, and adding or replacing signage.					naterial to I over the establishing
Budget	Year 1		ear 2	Year 3	Year 4+	TOTAL
Design (pre- and post- env)	\$ 1,288,200	\$	858,800			\$ 2,147,000
Utilities	. , ,		•			\$-
Right of Way		\$	350,000			\$ 350,000
Construction				\$12,878,815	\$8,585,877	\$21,464,692
TOTAL	\$ 1,288,200	\$1	,208,800	\$12,878,815	\$8,585,877	\$23,961,692
Funding						
Potential Funding Sources	PROTECT formula funds (for drainage features), STBG, NHPP (only for protective features), PROTECT discretionary grant (for drainage features), HSIP, FLAP, BUILD					•
Potential Lead Agency Sponsor	DOT&PF					
Potential Project Partners	NPS					
Environmental	Value	1		Со	mments	
Anticipated Environmental Doc	CE					
Section 4(f) involvement?	Potential for involvement		AHRS sites present in close vicinity (one site was previously determined not eligible and one site had no determination of eligibility). Adjacent National Park Service land (Gilahina Trestle Wayside).			ne site had no ational Park
Permits Required	Yes		USACE Section 404 Permit; ADF&G Fish Habitat Permit			

Project Name	McCarthy Road MP 27 to 44 Rehabilitation			
Draft Purpose & Need	 The purpose of the project is to ensure safer and more reliable access for roadway users by meeting design standards (such as addressing narrow road width, poor sight lines, road curvature, steep grades) and improving drainage along the McCarthy Road. Needs arise from the following: The road is narrow in places and needs to be widened to improve safety. The road also has sharp curves and steep grades in locations; reducing these would improve safety. There are numerous drainage issues, which can be partly attributed to lack of ditches. Several locations experience glaciation over the roadway during the winter, such as near approximate MP 27, 34, 36, and 38. Poor drainage has led to deterioration of the road, safety concerns by drivers, and increased maintenance costs. Widening the road, improving or constructing new drainage features (like ditches or culverts), and adding material to raise the roadway in select areas would improve reliability and safety for travelers and reduce maintenance costs. Adding speed limit signs and mile markers are intended to improve safety for travelers. 			
List Assumptions, Unknowns, Other Environmental Impacts				
Right of Way	Value	en; nearly 140 invasive plants have been identified. Comments		
Confidence in ROW Estimate	Moderate	ROW area impacted is 3.1 acres. DOT&PF ROW provided SSE estimate in March 2025.		
Utilities	Value	Comments		
Confidence in Utility Estimate	None	No utility impacts anticipated.		

Project Name	McCarthy Road MP 27 to 44 Rehabilitation			
Bridge	Value	Comments		
Bridge Work Included	No	No bridge work anticipated.		
Design Notes				
List Assumptions, Unknowns, etc	Rehab focuses on improving areas identified to be in poor condition (by M&O, Public, Stakeholders, Project Team). Based on identified areas and high-level roadway modeling, about 65% of project corridor is assumed to be improved. Road widened to 24-ft width. In areas where road is raised, 36-inch structural section (6-inch surface course, 30-inch borrow) provided. Clearing and grubbing to be completed for entire project footprint. All drainage culverts to be 24-inch in size and installed with thaw pipe.			
Maintenance				
List Assumptions, Unknowns, etc	M&O has identified locations with drainage and road condition issues. Improvements to road, drainage, and brushing will reduce maintenance effort.			

#7: McCarthy Road MP 44 to 59 Rehabilitation (between Lakina River and Kennicott River)

Project Name	McCarthy Road	MP	44 to 59 R	ehabilitation			
	T						
Priority	High		Priority is based on resolving key needs related to				
			•	g safety, mainta	•	•	
			•	g infrastructure		-	
				utreach, the pub			
				cross-sections a	s some of the hi	ghest	
Time aline	NA adiama (Funcio	\	•	to address.		4	
Timeline	Medium (5+ yea	ars)		ation projects ar	•		
				dalone drainage		projects	
Scope	Widen the McCa	arthy		ue to higher cost		ko ditchos and	
Scope	culverts). Add m			_	•		
	geometry (redu				•	•	
	Clear roadside b					_	
Description	Rehabilitate the						
			•				
	(MP 44 to 59). Where necessary, work would include adding material to widen and/or raise the road (add 2 to 3 feet of gravel material over the						
			-		_		
	_	existing road), improving drainage (such as constructing or re-establishing ditches and culverts), clearing roadside brush and vegetation, and adding or					
	replacing signage.						
Budget	Year 1	Υ	ear 2	Year 3	Year 4+	TOTAL	
Design (pre- and post- env)	\$ 1,412,400	\$	941,600			\$ 2,354,000	
Utilities						\$ -	
Right of Way						\$ -	
Construction				\$14,123,520	\$9,415,680	\$23,539,200	
TOTAL	\$ 1,412,400	\$	941,600	\$14,123,520	\$9,415,680	\$25,893,200	
Funding							
Potential Funding Sources	PROTECT formu	ıla fu	nds (for dr	ainage features), STBG, NHPP (d	only for	
	protective featu	ıres),	, PROTECT	discretionary gr	ant (for drainag	e features),	
	HSIP, FLAP, BUIL	LD					
Potential Lead Agency Sponsor	DOT&PF						
Potential Project Partners	NPS						
Environmental	Value			Coi	mments		
Anticipated Environmental Doc	CE						
Section 4(f) involvement?	Potential for		AHRS sites present in close vicinity (one site was				
	involvement			previously determined not eligible and one site had no			
	determination of eligibility).						
Permits Required	Yes		USACE Se	ection 404 Permi	it; ADF&G Fish F	labitat Permit	

Project Name	McCarthy Road MP	44 to 59 Rehabilitation		
Draft Purpose & Need List Assumptions, Unknowns, Other Environmental Impacts	 The purpose of the project is to ensure safer and more reliable access for roadway users by meeting design standards (such as addressing narrow road width, poor sight lines, road curvature, steep grades) and improving drainage along the McCarthy Road. Needs arise from the following: The road is narrow in places and needs to be widened to improve safety. The road also has sharp curves and steep grades in locations; reducing curvature and steep grades would improve safety. There are numerous drainage issues, which can be partly attributed to lack of ditches. Beaver activity is also contributing to drainage issues (between MP 50 and 52), as is glaciation over the roadway during the winter (approx. MP 54.5 and 57.5). Thawing permafrost near approximate MP 57.5 is a concern. Poor drainage has led to deterioration of the road, safety concerns by drivers, and increased maintenance costs. Widening the road, improving and/or constructing new drainage features (e.g., ditches, culverts), and adding material to raise the roadway in select areas will improve reliability and safety for travelers and reduce maintenance costs. Adding speed limit signs and mile markers are intended to improve safety for travelers. Likely contained within the existing ROW, reducing coordination efforts and chances of delay. There are two known AHRS sites in the area; future consultation may reveal unrecorded sites. The State Wayside near MP 55.2 is located on state land and managed by the NPS. There is one RS 2477 (Nikolai Mine Trail) and no 17b easements in the area. Up to 15 acres of NWI-mapped wetlands (freshwater emergent wetlands and freshwater forested/ shrub wetlands) may be impacted. Road crosses anadromous streams (Long Lake Creek/Outlet, Long Lake Creek/Tributary, and Kennicott River). Road crosses six additional streams with no assigned AWC stream number (another Long Lake Creek/Tributary, three unnamed crossings, Tractor Cre			
	revegetation pla	n; nearly 160 invasive plants have been identified.		
Right of Way	Value	Comments No POW impacts anticipated		
Confidence in ROW Estimate	None	No ROW impacts anticipated.		
Utilities Confidence in Litility Fetimente	Value	Comments		
Confidence in Utility Estimate	None No utility impacts anticipated.			
Bridge	Value Comments			
Bridge Work Included	No	No bridge work anticipated.		
Design Notes	T			
List Assumptions, Unknowns, etc	Rehab focuses on improving areas identified to be in poor condition (by M&O, Public, Stakeholders, Project Team). Based on identified areas and high-level roadway modeling, 75% of project corridor assumed to be improved. Road widened to 24-ft width. In areas where road is raised, 36-			

Project Name	McCarthy Road MP 44 to 59 Rehabilitation				
	inch structural section (6-inch surface course, 30-inch borrow) provided. Clearing and grubbing to be completed for entire project footprint. All drainage culverts to be 24-inch in size and installed with thaw pipe.				
Maintenance					
List Assumptions, Unknowns, etc	M&O has identified locations with drainage and road condition issues. Improvements to road, drainage, and brushing will reduce maintenance effort.				

#8: McCarthy Road MP 59 to 63 Rehabilitation (from Kennicott River to Kennicott Subdivision)

Project Name	McCarthy Roa	d MP !	59 to 63 R	ehabilitation		
Priority	Medium		Priority is based on resolving key needs related to			
				ng safety, mainta	_	·
				ng infrastructure		-
			_	utreach, the pul		-
				cross-sections	as some of the h	ighest
				s to address.		/ I la I la
				ect received a m		-
				ority) because of ennicott River co		
Timeline	Medium (5+ ye	arcl		tation projects a	•	
Timeline	Wiedidili (5+ ye	zai s j		han standalone	•	
				largely due to h		rement
Scope	Widen the Mc	Carthy		l add drainage ir		ke ditches and
300pc		•		road in areas w	•	
	<u>-</u>			. Add/replace si	•	
Description						
•	Rehabilitate the McCarthy Road between Kennicott River and Kennicott subdivision (MP 59 to 63). Where necessary, work would include adding					
				the road (add 2		_
	over the existing road), improving drainage (such as constructing or re-					
	establishing ditches and culverts), clearing roadside brush and vegetation,					
	and adding or	replac	ing signag	e.		
Budget	Year 1	Y	ear 2	Year 3	Year 4+	TOTAL
Design (pre- and post- env)	\$ 488,400	\$	325,600			\$ 814,000
Utilities						\$ -
Right of Way						\$ -
Construction				\$8,134,673		\$8,134,673
TOTAL	\$ 488,400	\$	325,600	\$8,134,673	\$ -	\$8,948,673
Funding						_
Potential Funding Sources	PROTECT form	ula fui	nds (for dr	ainage features	, PROTECT disci	etionary
	grant (for drain	nage fe	eatures), F	LAP, STBG, NHP	P (only for prote	ective
	features), HSIP, BUILD					
Potential Lead Agency Sponsor	DOT&PF					
Potential Project Partners	NPS					
Environmental	Value			Со	mments	
Anticipated Environmental Doc	CE					
Section 4(f) involvement?	Potential for			es present in clo	• •	sites do not
	involvement		have a determination of eligibility).			
Permits Required	Yes		USACE S	ection 404 Perm	nit; ADF&G Fish	Habitat Permit
'	I		L		•	

Project Name	McCarthy Road MP 59 to 63 Rehabilitation			
Draft Purpose & Need	 The purpose of the project is to ensure safer and more reliable access for roadway users by meeting design standards (such as addressing narrow road width) and improving drainage along the McCarthy Road. Needs arise from the following: The road is narrow in places and needs to be widened to improve safety. There are numerous drainage issues, which can be partly attributed to lack of ditches. Poor drainage has led to deterioration of the road, safety concerns by drivers, and increased maintenance costs. Abandoned rails protrude from the embankment in the ditches, preventing some maintenance activities such as brush clearing with hydro-axes. Widening the road, improving and/or constructing new drainage features (like ditches or culverts), removing abandoned rails, and adding material to raise the roadway in select areas would improve reliability and safety for travelers and reduce maintenance costs. Adding speed limit signs and mile markers are intended to improve safety for travelers. 			
List Assumptions, Unknowns, Other Environmental Impacts	 Likely contained within the existing ROW, reducing coordination efforts and chances of delay. There are two known AHRS sites in the area; future consultation may reveal unrecorded sites. The vault toilet facilities near the swimming hole vicinity are maintained by the McCarthy Area Council (MAC). There are no RS 2477s or 17b easements in the area. Few NWI-mapped wetlands are present. Up to 0.2 acres of freshwater forested/ shrub wetland may be impacted. Road crosses anadromous streams (Kennicott River, near the swimming hole, and Clear Creek). ADF&G designate the culverts at the swimming hole and Clear Creek as likely deficient for fish passage. Consider migratory birds and preconstruction surveys. Consider revegetation plan; nearly 30 invasive plants have been identified. 			
Right of Way	Value	n for this project. Comments		
Confidence in ROW Estimate	None	No ROW impacts anticipated.		
Utilities	Value	Comments		
Confidence in Utility Estimate	None	No utility impacts anticipated.		
Bridge	Value	Comments		
Bridge Work Included	No No bridge work anticipated.			
Design Notes List Assumptions, Unknowns, etc	Rehab focuses on improving areas identified to be in poor condition (by M&O, Public, Stakeholders, Project Team). Based on identified areas and high-level roadway modeling, 80% of project corridor assumed to be improved. Road widened to 24-ft width. In areas where road is raised, 36-inch structural section (6-inch surface course, 30-inch borrow) provided. Clearing and grubbing to be completed for entire project footprint. All drainage culverts to be 24-inch in size and installed with thaw pipe.			

Project Name	McCarthy Road MP 59 to 63 Rehabilitation		
Maintenance			
List Assumptions, Unknowns,	M&O has identified locations with drainage and road condition issues.		
etc	Improvements to road, drainage, and brushing will reduce maintenance		
	effort.		

#9: McCarthy Road MP 1.5 to 3 Reconstruction (reroute near Kotsina Bluffs)

Project Name	McCarthy Roa	d MP	1.5 to 3 R	Reconstruction		
Priority	High		improvi improvi and red road aw This is of corridor the DOT a high p historic more. It slope fa numero frequen narrow. During of address	outreach, the pu ocus area as one a. A member of t	aining reliable a conditions alor road closure by dslide hazard. It identified need cades prior to the blic have indicated in for the road condition is poor less. This stretch is tenance. The road lablic identified the of the highest phe public stated.	ds areas in the e PEL study, ed this area as prridor, due to delihood of d and risk of due to requires and is also the Kotsina riorities to , "if the road"
				o other project		
Timeline	Long (10+ years)		Despite being one of the highest priorities in the corridor, the timeline for implementing this project is in the long-term due to factors such as cost, ability to obtain funding, ROW acquisition, and environmental			
Scope	approvals. Reconstruct approximately 1.5 miles of the McCarthy Road from MP 1.5 to					
Scope	3. Project would realign the existing road onto the dry Kotsina riverbed with substantial riprap.					
Description	Realign approximately 1.5 miles of the McCarthy Road from MP 1.5 to 3 onto the dry Kotsina riverbed, away from and off the Kotsina Bluffs and landslide hazard. Road would be armored appropriately with riprap to protect it from the river. The existing road alignment would be abandoned. Requires acquisition of new ROW.					
Budget	Year 1		ear 2	Year 3	Year 4+	TOTAL
Design (pre- and post- env)	\$ 3,910,800	\$ 2,	607,200			\$ 6,518,000
Utilities	-					\$-
Right of Way		\$	375,000			\$ 375,000
Construction		· ·	-	\$ 19,552,089	\$ 45,621,540	\$ 65,173,629
TOTAL	\$ 3,910,800	\$ 2,	982,200	\$ 19,552,089	\$ 45,621,540	\$ 72,066,629
Funding						
Potential Funding Sources	PROTECT formula funds (for resilience features), STBG, NHPP (only for protective features), PROTECT discretionary grant (for resiliency features), FLAP, HSIP, BUILD (only if ROW is not on federally-owned lands), TTP					
Potential Lead Agency Sponsor	DOT&PF					
Potential Project Partners	NPS, Chitna Native Corporation					
Environmental	Value			Co	omments	
Anticipated Environmental Doc	EA or EIS					

Project Name	McCarthy Road MP	1.5 to 3 Reconstruction			
Section 4(f) involvement?	No				
Permits Required	Yes	USCG Section 9 Permit; USACE Section 404/10 Permit; ADF&G Fish Habitat Permit			
Draft Purpose & Need	improving roadway or road width), and pre arise from the follow Landslide hazard continues to pos would close McC residents and vis Road conditions in poor road con The bluffs shed of There are constant frequent attentions sections between Addressing these	The purpose of the project is to ensure a safe and reliable road corridor by improving roadway conditions, meeting current design standards (such as road width), and preventing road closure due to landslides. Project needs arise from the following: Landslide hazard: Historic landslides have resulted in road closures and continues to pose a risk of sliding and road closure. A massive landslide would close McCarthy Road, cutting off the only access into the area for residents and visitors. Road conditions and drainage issues: Substantial drainage issues result in poor road condition. Thawing permafrost exists uphill from the road. The bluffs shed due to over saturation of unconsolidated material. There are constant slope failures. This section of the road requires frequent attention by DOT&PF M&O. Design standards: The existing road alignment is narrow, with some sections between 15 and 16 feet wide, rather than 24 feet wide. Addressing these needs by relocating a section of the McCarthy Road away from a landslide area would improve reliability and safety for			
List Assumptions, Unknowns, Other Environmental Impacts	 Approximately 1 the road ROW for Native Lands Path Settlement Agree Ahtna, Inc. holds Kotsina delta, sure of Alaska. Addition the road reroute. There are no known reveal unrecorded. The Copper Rive MP 1.6. There are two RS Elliot Trail) and note of NWI-mapped were riverine (i.e., unvectordination with the area does not floodway. Future section to determine to assess the potential longiture guidance and confidence an	own AHRS sites; however future consultation may ed sites. r Campground is located east of the Copper River near 5 2477s (Bellum's [Billum's] Crossing -Taral and Chitination 17b easements in the area. etlands are present. Up to 15 acres of designated as regetated gravel bars) may be impacted requiring			

Project Name	McCarthy Road MP	McCarthy Road MP 1.5 to 3 Reconstruction				
	 The Kotsina River is considered navigable from its confluence with the Copper River upstream 8 river miles, which will require USCG coordination. Consider migratory birds and preconstruction surveys. 					
Right of Way	Value					
Confidence in ROW Estimate	Moderate	ROW area impacted is 16.6 acres. DOT&PF ROW provided SSE estimate in March 2025.				
Utilities	Value Comments					
Confidence in Utility Estimate	None No utility impacts anticipated.					
Bridge	Value Comments					
Bridge Work Included	No No bridge work anticipated.					
Design Notes						
List Assumptions, Unknowns, etc	Realignment of 1.5 miles of roadway onto riverbed. Road profile set 4-ft above observed OHW. Riprap protection of roadway assumed depth 3-ft Type IV and 1-ft Type I. Future design to complete H&H and set minimum profile height above riverbed and size riprap.					
Maintenance						
List Assumptions, Unknowns, etc	Roadway realignment will reduce maintenance effort. Existing maintenance issues to be reduced/eliminated: Drainage issues, road sinking/sluffing, narrow road, high cutbanks, rock/mud slides.					

#10: McCarthy Road MP 29 Gilahina River Bridge (#1194) Replacement

Project Name	McCarthy Road	MP 29 Gilahina R	iver Bridge (#1194	4) Replacement		
Priority	Medium		Priority is based on resolving needs related to improving safety and maintaining reliable access, addressing roadway elements to meet current design standards, and improving infrastructure conditions.			
Timeline	Short (less than	five years)	in nearly the ex straightforward considers resol	Timeline assumes a bridge replacement project in nearly the existing alignment is somewhat straightforward to implement. Timeline considers resolving the ROW discrepancy as well as obtaining environmental approvals.		
Scope	Road with a new	two-lane bridge	lahina Bridge #119 with higher cleara Iso reduce the ste	nce. Road would	•	
Description	laned bridge wit	h higher clearance ould reduce (but r	at MP 29 on the e. The road would not fully eliminate	be raised to mate	ch the new	
Budget	Year 1	Year 2	Year 3	Year 4+	TOTAL	
Design (pre- and post- env)	\$ 334,200	\$222,800			\$ 557,000	
Utilities					\$ -	
Right of Way		\$250,000			\$ 250,000	
Construction			\$5,569,286		\$5,569,286	
TOTAL	\$ 334,200	\$472,800	\$5,569,286	\$ -	\$6,376,286	
Potential Funding Sources	BFP, BIP, STBG, Not on federal	. , .	otective features),	FLAP, HSIP, BUILI	O (only if ROW	
Potential Lead Agency Sponsor Potential Project	NPS, WFL					
Partners	,					
Environmental	Va	lue	Comments			
Anticipated Environmental Doc	CE or EA					
Section 4(f) involvement?	Likely		National Park Service land (nearby Gilahina Trestle Wayside).			
Permits Required	Yes			Permit; USACE Se Fish Habitat Pern		

Project Name	McCarthy Road MP 29 Gilahina Riv	ver Bridge (#1194) Replacement		
Draft Purpose & Need List Assumptions,	The purpose of the project is to improve safety by meeting current design standards and maintaining reliable connectivity along the McCarthy Road by addressing sight distance, clearance, and load restriction issues associated with the existing Gilahina River Bridge (#1194). The existing one-lane bridge is in an area that has one of the steepest grades along the road corridor; it is on sharp roadway curves that are constrained by topography, contributing to poor sight distance. Increasing the bridge clearance and then raising the road to match the raised bridge would decrease the steep road grade. Of all the vehicle bridges in the road corridor, this bridge has the most limiting load restriction (that is, the lowest weight capacity) and the lowest bridge sufficiency rating. Scour occurs at the bridge abutments, debris gets into the girders, and a higher bridge clearance of over the river is needed. The road is not located in the road ROW which is where the abandoned railway trestle stands; the ROW discrepancy needs to be resolved. • DOT&PF and NPS intend to resolve the ROW discrepancy, so the road ROW			
Unknowns, Other Environmental Impacts	 Dotape and Nest Intend to resolve the Row discrepancy, so the road Row incorporates the existing road location. The NPS' owned and maintained Gilahina Trestle Wayside is near the bridge crossing and would be impacted. Likely Section 4(f) involvement. There are no known AHRS sites within the area, though they are nearby. Future consultation and cultural resources survey may reveal unrecorded sites. There are no RS 2477s or 17b easements in the area. NWI-mapped wetlands are present outside of the project area. The area does not have a delineated 100-year floodplain or regulatory floodway. Future coordination with DOT&PF hydrology section will determine need for an LHS and/or H&H study. The new bridge would span the Gilahina River, which is anadromous. Consider migratory birds and preconstruction surveys. Consider revegetation 			
Right of Way	plan; eight invasive plants have Value	Comments		
Confidence in ROW Estimate	Moderate	The proposed project footprint extends about 0.7 acres outside of the road ROW. However, DOT&PF intend to resolve the ROW discrepancy in this location. DOT&PF ROW provided SSE estimate in March 2025.		
Utilities	Value	Comments		
Confidence in Utility Estimate	None	No utility impacts anticipated.		
Bridge	Value	Comments		
Bridge Work Included	Yes	Replace Gilahina Bridge (#1194) on existing alignment. Bridge elevation to be raised and road approach profile to be improved.		
Design Notes				
List Assumptions, Unknowns, etc	improve grade and to meet project impacts to existing Wayside. Bridge	or bridge foundation. Raise road elevation to t design criteria. Bridge construction to mitigate to be built immediately adjacent to the existing furing construction. ROW discrepancy to be		

Project Name	McCarthy Road MP 29 Gilahina River Bridge (#1194) Replacement		
Maintenance			
List Assumptions,	New bridge will reduce maintenance effort. Existing maintenance issues to be		
Unknowns, etc	reduced/eliminated: Load restrictions. Debris in girders from low clearance over		
	river. Scour at abutments.		

#11: McCarthy Road MP 44 to 48.5 Reconstruction (existing alignment improvements near Long Lake)

Project Name	McCarthy Road	d MP	44 to 48.	5 Reconstructio	n	
Priority	High Priority is based on resolving key needs improving safety, maintaining reliable as improving infrastructure conditions alon During outreach, the public identified th focus area as one of the highest prioritie and drew some of the most attention du outreach efforts.		ccess, and ng the road. ne Long Lake es to address			
Timeline			rs) Despite the high priority of this location, the project timeline is influenced by factors such as the high cost of trucking in large porous rock. More cost-effective improvements, like a standalone drainage project, might be able to be implemented sooner.			the high cost ost-effective ge project,
Scope	would include i geometric impi Drainage impro	Reconstruct 4.5 miles of the McCarthy Road between MP 44 to 48.5. Project would include road width improvements, resurfacing with new gravel, geometric improvements, roadway signage, and drainage improvements. Drainage improvements would include new ditches, culverts, and porous rock ditch lining. Clear roadside brush and vegetation.				to 48.5. Project w gravel, provements.
Description	Reconstruct approximately 4.5 miles of the McCarthy Road along Long Lake in its existing alignment. Work would include widening the road to design standards; addressing roadway geometry by reducing sharp curves and steeper grades; installing ditching, including porous rock to mitigate drainage and glaciation issues; clearing brush and vegetation; and installing signage. Porous rock provides a permeable layer that allows water to flow through the embankment.				ad to design urves and itigate and installing	
Budget	Year 1		ear 2	Year 3	Year 4+	TOTAL
Design (pre- and post- env)	\$ 813,600		542,400			\$ 1,356,000
Utilities	. ,		,			\$-
Right of Way						\$ -
Construction				\$ 8,134,746	\$ 5,423,164	\$ 13,557,910
TOTAL	\$ 813,600	\$	542,400	\$ 8,134,746	\$ 5,423,164	\$ 14,913,910
Funding	<u> </u>			1	'	
Potential Funding Sources	STBG, FLAP, HS	IP, BL	JILD (only	if ROW is not fe	ederally-owned	lands)
Potential Lead Agency Sponsor	DOT&PF			-		
Potential Project Partners	NPS					
Environmental	Value		Comments			
Anticipated Environmental Doc	CE					
Section 4(f) involvement?	No					
Permits Required	Yes		USACE S	ection 404 Pern	nit; ADF&G Fish	Habitat Permit

Project Name	McCarthy Road MP	44 to 48.5 Reconstruction		
Draft Purpose & Need	 The purpose of the project is to ensure safer and more reliable access for roadway users by meeting current design standards (e.g., road width, curvature, grade) and improving drainage along the McCarthy Road. Project needs arise from the following: Road conditions and drainage issues: Drainage problems, including glaciation and lack of ditching, deteriorate the road and pose safety concerns for drivers. Proactive improvements would reduce maintenance and enhance resilience. Design standards: The road is narrow, with high cutbanks, steep dropoffs, sharp curves, and steep grade. Members of the public have cited speeding as a concern. Adding speed limit signs and mile markers are intended to improve safety for travelers. Addressing these needs would improve reliability and safety for travelers 			
	and reduce mainten	ance costs.		
List Assumptions, Unknowns, Other Environmental Impacts	 Likely contained within the existing ROW, reducing coordination efforts and chances of delay. There are no known AHRS sites; however future consultation may reveal unrecorded sites. There are no RS 2477s or 17b easements in the area. Up to 3.5 acres of NWI-mapped wetlands (freshwater forested/ shrub wetlands) may be impacted. Road crosses anadromous streams (Long Lake Creek/Outlet and Long Lake Creek/Tributary). ADF&G designates the Long Lake Creek/ Outlet as likely deficient for fish passage and the Long Lake Creek/ Tributary as maybe being inadequate. Consider migratory birds and preconstruction surveys. Consider revegetation plan; 50 invasive plants have been identified. 			
Right of Way	Value	Comments		
Confidence in ROW Estimate	None	No ROW impacts anticipated.		
Utilities	Value	Comments		
Confidence in Utility Estimate	None	No utility impacts anticipated.		
Bridge	Value Comments			
Bridge Work Included	No	No bridge work anticipated.		
Design Notes				
List Assumptions, Unknowns, etc	Road widened to 24-ft width. 36-inch structural section (6-inch surface course, 30-inch borrow) provided. Porous rock to be installed in ditch similar to as-built project that improved drainage and glaciation on this corridor. All drainage culverts to be 24-inch in size and installed with thaw pipe.			
Maintenance	1			
List Assumptions, Unknowns, etc	Existing maintenance issues to be reduced/eliminated: Drainage issues, narrow road, glaciation.			

#12: McCarthy Road MP 58 Reconstruction (existing alignment improvements)

Project Name	McCarthy Road	d MP 58 Recons	truction		
Priority	Medium	improvir improvir well as r outreach as one o	s based on resoling safety, maintaing infrastructure nitigating the larn, the public ider	aining reliable ad conditions alor ndslide hazard ri ntified the MP 5 orities to addres	ccess, ng the road, as isk. During 8 focus area ss.
		ongoing plane fo ongoing slope, in drainage		ilures but no cle ilure; initial resu ould be mitigate le fabric, and im	ear failure ults suggest d by flattening aproving
Timeline	Medium (5+ ye	conduct monitor slope fai with no that a la Smaller and beco	e is based on inited by DOT&PF ing in 2025. Initing in 2025. Initing in 2025, Initing in 20	n the fall 2024 a al results sugges aused by groun on of a potentia ailure could occ ected as materia at the slope's ba	nd upcoming st unstable d saturation, I failure plane ur upon. I accumulates ase but could
Scope	be mitigated by the recommended improvements. Reconstruct 0.3 miles of the McCarthy Road between MP 57.5 to 57.8. Project would include slope stabilization, road width improvements, resurfacing with new gravel, and drainage improvements. Slope stabilization would include slope flattening and geotextile fabric. Clear roadside brush and vegetation.				
Description	Reconstruct 0.3 miles of McCarthy Road near MP 58 in its existing alignment. Work would include widening the road to design standards; improving the road surface by installing fabric and more gravel; installing debris barriers; constructing ditches; clearing brush and vegetation; and installing signage				
Budget	Year 1	Year 2	Year 3	Year 4+	TOTAL
Design (pre- and post- env)	\$ 259,200	\$ 172,800			\$ 432,000
Utilities					\$ -
Right of Way		\$ 300,000			\$ 300,000
Construction			\$4,315,542		\$4,315,542
TOTAL	\$ 259,200	\$ 472,800	\$4,315,542	\$ -	\$5,047,542
Funding					

Potential Funding Sources	PROTECT formula funds (for resilience features), STBG, NHPP (only for			
	protective features), FLAP, HSIP			
Potential Lead Agency Sponsor	NPS			
Potential Project Partners	DOT&PF, WFL			

Environmental	Value	Comments
Anticipated Environmental Doc	CE or EA	
Section 4(f) involvement?	Potential for involvement	AHRS site present in close vicinity (one site was previously determined not eligible)

Project Name	McCarthy Road MP 58 Reconstruction		
Permits Required	No		
Draft Purpose & Need	 The purpose of the project is to ensure a safe and reliable road corridor by improving roadway conditions, mitigating landslide hazards, and meeting current design standards. Project needs arise from the following: Landslide hazard: This section has a history of landslides that can cause road closure and require additional maintenance by DOT&PF. There is concern that a massive landslide could close the McCarthy Road, cutting off access for residents and visitors. Road conditions and drainage issues: Drainage problems (including glaciation), deterioration of the road, and safety concerns for drivers. Thawing permafrost near MP 57.5 is a concern. Proactive improvements would reduce maintenance and enhance resilience. Design standards: The road is narrow, with high cutbanks, steep dropoffs, sharp curves, and steep grade. Addressing these needs would improve reliability and safety for travelers 		
		ance costs. Adding speed limit signs and mile markers	
List Assumptions, Unknowns, Other Environmental Impacts Right of Way	 are intended to improve safety for travelers. Slope stabilization measures will be constructed uphill on approximately 6.5 acres, of which about 6 acres is on private land and 0.5 acres on NPS land. A temporary construction easement is anticipated for construction access onto private lands. There is one known AHRS site in the area; future consultation may reveal unrecorded sites. There is one RS 2477 (Nikolai Mine) and no 17b easements in the area. NWI-mapped wetlands are not present in the project area. There are no anadromous streams in the project area. Consider migratory birds and preconstruction surveys. Consider revegetation plan; 13 invasive plants have been identified. 		
Confidence in ROW Estimate	Value Moderate	Comments ROW area impacted for Temporary Construction	
Communice in NOW Estimate	Woderate	Easement is 6.5 acres. DOT&PF ROW provided SSE estimate in March 2025.	
Utilities	Value	Comments	
Confidence in Utility Estimate	None	No utility impacts anticipated.	
Bridge	Value	Comments	
Bridge Work Included	No	No bridge work anticipated.	
Design Notes			
List Assumptions, Unknowns, etc	Flattened slope and erosion control measures to reduce slope failures impacting roadway. 3-ft ditch added for cross culvert drainage. Additional field exploration of existing geotechnical conditions needed.		
Maintenance	1		
List Assumptions, Unknowns, etc	Roadway reconstruction will reduce maintenance effort. Existing maintenance issues to be reduced/eliminated: Drainage issues, road sinking/sluffing, narrow road, high cutbanks, rock/mud slides.		

#13: McCarthy Road Kennicott River Footbridge (#6004) Rehabilitation

Project Name	McCarthy Road Kennicott River Footbridge (#6004) Rehabilitation				
Priority	Medium Priority is based on resolving key needs related to			related to	
		improvii	ng safety, mainta	nining reliable a	ccess, and
		improvii	ng infrastructure	conditions alor	ng the
		corridor	•		
Timeline	Medium (5+ ye	*	considers that t	•	_
			ns appear stable		
		-	ng the nearby riv		nt from erosion
			ave higher prior	•	
Scope		•	in bridge at Kenr		
	_	• .	rs, timber rub ra	•	
	•		ure recoating, p	recast slab jum _l	o span
	·	d signage addit			
Description		•	idge at Kennicott		
		-	and extend its se		
	pedestrian bridge and adding signage are intended to mitigate the conflict				
	of user groups on the bridge between ATV users and pedestrians or cyclists.				
Budget	Year 1	Year 2	Year 3	Year 4+	TOTAL
Design (pre- and post- env)	\$ 110,400	\$ 73,600			\$ 184,000
Utilities					\$ -
Right of Way					\$ -
Construction		_	\$ 1,830,034	·	\$ 1,830,034
TOTAL	\$ 110,400	\$ 73,600	\$ 1,830,034	\$ -	\$ 2,014,034
Funding					

Potential Funding Sources	FLAP, NSFLTP (depending on cost and significance)	
Potential Lead Agency Sponsor	DOT&PF	
Potential Project Partners	NPS, WFL	

Environmental	Value	Comments
Anticipated Environmental Doc	CE	
Section 4(f) involvement?	No	
Permits Required	No	
Draft Purpose & Need	The purpose of the project is to extend the service life of the pedestrian bridge, repair known damage, decrease conflict among user groups, and improve safety. Bridge conditions are showing wear and tear, in particular the bridge decking, and need to be improved to maintain access, provide safe travel and extend the life of the bridge. Bridge improvements would ensure pul access is maintained across the Kennicott River. The pedestrian bridge is narrow and experiences conflicts amongst user groups, in particular pedestrians and ATV users. Bridge enhancements ar signage is intended to improve access and safety for bridge users.	

Project Name	McCarthy Road Kennicott River Footbridge (#6004) Rehabilitation		
List Assumptions, Unknowns,	Improvements are contained to the footbridge, except for a small		
Other Environmental Impacts	amount of groundwork at the ends of the bridge to construct jump		
	spans.		
	There are no known AHRS sites; however future consultation may reveal unrecorded sites.		
	There are no RS	2477s or 17b easements in the area.	
	Kennicott River i	s anadromous. No instream work is anticipated.	
	Consider migrate	ory birds and preconstruction surveys. Consider	
	revegetation pla	n; 5 invasive plants have been identified.	
Right of Way	Value	Comments	
Confidence in ROW Estimate	None	No ROW impacts anticipated.	
Utilities	Value	Comments	
Confidence in Utility Estimate	None	No utility impacts anticipated.	
Bridge	Value	Comments	
Bridge Work Included	Yes	Rehabilitate McCarthy Road Kennicott River Footbridge (#6004).	
Design Notes			
List Assumptions, Unknowns,	Seismic retrofit evaluation not performed.		
etc			
Maintenance			
List Assumptions, Unknowns,	Existing maintenance issues to be reduced/eliminated: Rusting/damaged		
etc	bridge decking, split/loose timber rub rails, debris on girders/decking		
	supports, chipped paint on steel substructure, sloughing material at bridge		
	approaches.		

#14: McCarthy Road Kennicott River Erosion Control (MP 59.3)

Project Name	McCarthy Road Kennicott River Erosion Control (MP 59.3)				
Priority	High		Priority is based on the need to maintain		
			reliable access an	d protect the pe	edestrian
			bridge across Ken	nicott River from	n ongoing
			erosion of the we	stern bank.	
Timeline	Short (less that	n five years)	Timeline is based on the need to protect the		
			bridge from natur	ral hazards like b	oank erosion
			and annual glacia	l lake outburst f	looding.
Scope	Construct eros	ion control at	Kennicott River. P	roject would ind	clude
	installation of	armor rock an	d spur dikes.		
Description	Erosion control measures in the form of riprap and spur dikes (approximate				
	16-foot height) would be installed on the west bank of the Kennicott River,				
	immediately upstream of the pedestrian bridge. Riprap would be installed				
	along approximately 400 feet of riverbank.				
Budget	Year 1	Year 2	Year 3	Year 4+	TOTAL
Design (pre- and post- env)	\$ 612,000	\$408,00	0		\$ 1,020,000
Utilities					\$ -
Right of Way		\$300,00	0		\$ 300,000
Construction	\$10,196,349 \$10,196,34				\$10,196,349
TOTAL	\$ 612,000	\$708,00	\$10,196,349	\$ -	\$11,516,349

Potential Funding Sources	FLAP, NSFLTP (depending on cost and significance), PROTECT	
Potential Lead Agency Sponsor	DOT&PF	
Potential Project Partners	NPS	

1 oterician i roject i artificis		
Environmental	Value	Comments
Anticipated Environmental Doc	CE or possibly EA	Project extends outside of ROW and requires in-stream work for installation of erosion control
Section 4(f) involvement?	No	
Permits Required	Yes	USCG Section 9 Permit; USACE Section 404/10
		Permit; ADF&G Fish Habitat Permit
Draft Purpose & Need	The purpose of the project is to maintain reliable access across the Kennicott River and protect the pedestrian bridge. Erosion on the upstream western bank, despite some existing riprap, and annual outburst flooding from Kennicott Glacier Lake and Hidden Creek Lak upstream necessitate additional protection. Constructing erosion control measures on the west bank of the river would safeguard the bridge and ensure continued public access across the river.	

Project Name	McCarthy Road Kennicott River Erosion Control (MP 59.3)		
List Assumptions, Unknowns, Other Environmental Impacts	 Approximately 0.6 acre of the project footprint falls outside of the road ROW on land designated as private (0.36 acre) and undetermined (i.e., riverine) (0.27 acre), requiring additional coordination. There are no known AHRS sites; however future consultation may reveal unrecorded sites. There is one RS 2477 (Nikolai Mine) and no 17b easements in the area. NWI-mapped waters of the U.S. are present in the area but are inaccurate, indicating only 0.01 acre of riverine will be impacted. The area does not have a delineated 100-year floodplain or regulatory floodway. Future coordination with DOT&PF hydrology section will determine need for a LHS and/or H&H study. The Kennicott River is not designated as navigable by the USACE or USCG, however the river is used by pack rafters especially during occasional Johkulaups. Coordination with the USACE is recommended to determine if a Section 10 permit would be applicable. Kennicott River is anadromous. Consider migratory birds and preconstruction surveys. Consider revegetation plan; three invasive plants have been identified. 		
Right of Way	Value	Comments	
Confidence in ROW Estimate	Moderate	ROW area impacted is 0.6 acres. DOT&PF ROW provided SSE estimate in March 2025.	
Utilities	Value	Comments	
Confidence in Utility Estimate	None	No utility impacts anticipated.	
Bridge	Value	Comments	
Bridge Work Included	No	No bridge work anticipated.	
Design Notes			
List Assumptions, Unknowns, etc	Riprap protection assumed depth 3-ft Type IV and 1-ft Type I. Spurs/dikes assumed 16-ft height. Future design to complete H&H to size riprap and spurs/dikes.		
Maintenance			
List Assumptions, Unknowns, etc	Existing maintenance issues to be reduced/eliminated. Erosion along west bank at parking lot and bridge abutment.		

#15: McCarthy Road MP 59.5 to 59.7 Reconstruction (existing alignment improvements)

Project Name	McCarthy Road	McCarthy Road MP 59.5 to 59.7 Reconstruction			
Priority	Medium Priority is based on resolving needs related				ted to
		improvir	ng safety, mainta	nining reliable a	ccess, and
		improvir	ng infrastructure	conditions alor	ng the road.
Timeline	Medium (5+ ye	ears) Timeline	is based on the	need to coordi	nate and
			he ROW discrep	ancy between t	he State of
		Alaska a			
Scope		•	ad between MP		•
			ovements, resu		
			dway signage, ar		
Description			e McCarthy Road	•	•
	_		nt approximate N	•	• ,
	of the Kennicott River pedestrian bridge crossing. Work would include widening the road to design standards; improving roadway geometry by lessening the grade and roadway curvature; constructing drainage improvements to address past flooding and poor road condition; and				
	installing signage. Expand the ROW to incorporate the road.				
Budget	Year 1	Year 2	Year 3	Year 4+	TOTAL
Design (pre- and post- env)	\$ 88,200	\$ 58,800			\$ 147,000
Utilities					\$ -
Right of Way		\$ 250,000			\$ 250,000
Construction			\$1,469,847		\$1,469,847
TOTAL	\$ 88,200	\$ 308,800	\$1,469,847	\$ -	\$1,866,847
Funding					
	FLAP, Culverts AOP				
Potential Funding Sources	FLAP, Cuiverts	AUP			
Potential Funding Sources Potential Lead Agency Sponsor	DOT&PF	AUP			

Potential Funding Sources	FLAP, Culverts AOP			
Potential Lead Agency Sponsor	DOT&PF			
Potential Project Partners	NPS, WFL, ADF&G/ USFWS			

Fotential Froject Farthers	NF3, WIL, ADI QU/ USI WS		
Environmental	Value	Comments	
Anticipated Environmental Doc	CE		
Section 4(f) involvement?	Potential for involvement	National Park Service land	
Permits Required	Yes	USACE Section 404 Permit; ADF&G Fish Habitat Permit	
Draft Purpose & Need	roadway users by me grade) and improving arise from the follow Road conditions to be improved. though in consid "swimming hole,"	project is to ensure safer and more reliable access for eeting current design standards (road width, curvature, g drainage along the McCarthy Road. Project needs ving: and drainage issues: Road conditions are poor and need There is a damaged culvert that needs to be replaced, eration with how improvements might impact the "located just north of the road." So The road is narrow, curvy and has a steep grade.	
	Addressing these needs would improve reliability and safety for travelers		
	and reduce maintena	ance costs.	

	1				
List Assumptions, Unknowns, Other Environmental Impacts		intend to resolve the ROW discrepancy, so the road sthe existing road location.			
other Environmental impacts	·	wn AHRS sites; however future consultation may reveal			
	unrecorded sites.				
	The vault toilet facilities near the swimming hole vicinity are maintained				
	by the MAC.				
		477s or 17b easements in the area, except for one RS			
	2477 (Nikolai Mine Trail) that runs outside of the southern extent of the project.				
		ers of the U.S. are present but are likely inaccurate. Up			
	to one-third acre of NWI-mapped wetlands (freshwater forested/shrub wetlands and riverine designation) may be impacted.				
		the swimming hole culvert, which conveys a designated			
		am. The culvert is in poor condition; ADF&G designates it			
	as likely deficient for fish passage.				
	Consider migratory birds and preconstruction surveys. Consider				
	revegetation plan; one invasive plant has been identified.				
Right of Way	Value	Comments			
Confidence in ROW Estimate	Moderate	The proposed footprint extends about 0.5 acres			
		outside of the road ROW. However, DOT&PF intend to			
		resolve the ROW discrepancy in this location. The NPS			
		has previously indicated 3.6 acres for resolving the			
		ROW discrepancy. DOT&PF ROW provided SSE			
Utilities	Value	estimate in March 2025. Comments			
Confidence in Utility Estimate	None	No utility impacts anticipated.			
·					
Bridge	Value	Comments			
Bridge Work Included	No	No bridge work anticipated.			
Design Notes	1				
List Assumptions, Unknowns,		-ft width. 36-inch structural section (6-inch surface			
etc	course, 30-inch borrow) provided. Existing culvert to be replaced with 48-				
	· ·	re design to verify structure size. Feasibility of			
Maintanana	maintaining existing	"swimming hole" to be evaluated further.			
Maintenance	Damanada Laga	datational mondate in annual months to the contract of the state of th			
List Assumptions, Unknowns,	Damaged culvert. Additional road to increase maintenance effort.				
etc					

#16: McCarthy Road Pullouts between McCarthy and Kennicott

Project Name	McCarthy Road Pullouts between McCarthy and Kennicott					
Priority	Low			s based on resolv		ed to
			improvir	ng safety and mai	intaining reliabl	e access.
Timeline	Long (10+ year	s)	This section of the road corridor sees less vehicle			
		traffic compared with the road west of				he Kennicott
			River. Ti	meline reflects th	ne assumption o	ther projects
			would ac	dvance sooner th	an this one.	
Scope	-		_	lcCarthy Road be	tween MP 60 t	o 63. Project
	would include					
Description	•			etween McCarth	•	•
	long.	tt Subi	uivisioii. E	ach pullout woul	и ве арргохіпіа	itely 100 feet
Budget	Year 1	Υ	ear 2	Year 3	Year 4+	TOTAL
Design (pre- and post- env)	\$ 68,400		\$ 45,600			\$ 114,000
Utilities						\$ -
Right of Way						\$ -
Construction				\$1,131,207		\$1,131,207
TOTAL	\$ 68,400		\$ 45,600	\$1,131,207	\$ -	\$1,245,207
Funding				<u>.</u>		
Potential Funding Sources	FLAP					
Potential Lead Agency Sponsor	DOT&PF					
Potential Project Partners	NPS, WFL					
Environmental	Value			Cor	nments	
Anticipated Environmental Doc	CE					
Section 4(f) involvement?	No					
Permits Required	No					
Draft Purpose & Need	The purpose of	f the p	roject is to	o improve safety	and maintain r	eliable access
	along the McCarthy Road by constructing pullouts in a section of road that is					
				g in the vicinity.		
	•	reviou	isly identif	ied the need and	I proposed loca	tion for
	pullouts.					
List Assumptions, Unknowns, Other Environmental Impacts				existing ROW, red	ducing coordina	tion efforts
other Environmental impacts	and chances		-			
	Inere are no unrecorded		/n AHRS si	tes; however fut	ure consultatio	n may reveal
			177s or 17	b easements in t	he area	
		_		are present; no i		ected
				d preconstruction		
		-	•	ve plants have be	•	aci
Right of Way	Value				nments	
Confidence in ROW Estimate	None		No ROW	impacts anticipa	ited.	
Utilities	Value			Cor	nments	
Confidence in Utility Estimate	None		No utility	y impacts anticipa	ated.	
Bridge	Value		<u> </u>	Cor	nments	
Bridge Work Included	No		No bridg	e work anticipate	ed.	
			1			

Design Notes	
List Assumptions, Unknowns, etc	Pullouts are 100-ft long and 12-ft wide. 36-inch structural section (6-inch surface course, 30-inch borrow) provided.
Maintenance	
List Assumptions, Unknowns,	Additional pullout areas to increase maintenance effort.
etc	

#17: McCarthy Road MP 40.2 Ruth Creek Culvert Replacement

#17. Wiccarthy Road Wir 40.2 Rath Creek Culvert Replacement						
Project Name	McCarthy Road	McCarthy Road MP 40.2 Ruth Creek Culvert Replacement				
Priority	Low	study co propose conditio	s assigned based rridor. However d project would ns (road and cul ^a nent (fish passag	, it is recognized jointly improve vert), safety, an	I that the infrastructure	
Timeline	Medium (5+ yea	ars) Timeline	is based on the	potential for th	e varying	
		types of	improvements t	o be able to acc	ess varying	
		funding : program	sources, beyond s.	solely transpor	tation-centric	
Scope	Construct a fish	Construct a fish passage culvert at Ruth Creek near MP 40.2 and reconstruct				
	and resurface a	pproximately 7	15 feet of the M	cCarthy Road. F	Project would	
	include road width improvements, roadway signage installation, and fis					
	passage improvements.					
Description			t at Ruth Creek			
	•	•	d nearby. Projec			
	Crystalline Hills and west of the Crystal Creek crossing and Ruth Lake. The					
	road would be	raised to accom	modate the nev	v fish passage c	ulvert.	
Budget	Year 1	Year 2	Year 3	Year 4+	TOTAL	
Design (pre- and post- env)	\$ 127,200	\$ 84,800			\$ 212,000	
Utilities					\$ -	
Right of Way					\$ -	
Construction			\$2,111,683		\$2,111,683	
TOTAL	\$ 127,200	\$ 84,800	\$2,111,683	\$ -	\$2,323,683	
Funding						
Potential Funding Sources	Culverts AOP, S	TBG, BFP, BIP, I	LAP			
Detential Load Agency Change	DOT 9 DE					

Environmental	Value	Comments
Potential Project Partners	NPS, WFL, ADF&G/ USFWS	
Potential Lead Agency Sponsor	DOT&PF	
Potential Funding Sources	Culverts AOP, STBG, BFP, BIP, FLAP	

rotelitiai rioject raitileis	NF3, WIL, ADI &U/ O3I W3			
Environmental	Value	Comments		
Anticipated Environmental Doc	CE			
Section 4(f) involvement?	No			
Permits Required	Yes	USACE Section 404 Permit; ADF&G Fish Habitat Permit		
Draft Purpose & Need	Yes USACE Section 404 Permit; ADF&G Fish Habita The purpose of the project is to ensure safe and reliable access for re users by meeting current design standards (notably, road width) and improving fish passage under the McCarthy Road. DOT&PF M&O has recommended the culvert be replaced and upsize both ADF&G and CRWP identified the current culvert as a fish barrie needing replacement. The pipe condition is noted as poor. DOT&PF I has identified the area as having a sink hole/soft spot and drainage is extending to the east about 0.5 mile. To accommodate the new culvert, the road would be raised. The pro would resurface the road with new gravel material, improving the ro condition. Widening the road, replacing the culvert, and adding new gravel mate would improve reliability and safety for travelers, reduce maintenan costs, and enhance the environment by improving fish passage.			

List Assumptions, Unknowns, Other Environmental Impacts	•	within the existing ROW, reducing coordination efforts			
Other Environmental impacts					
	There are no known unrecorded sites	own AHRS sites; however future consultation may reveal 5.			
	• There are no RS	2477s or 17b easements in the area.			
	• NWI-mapped wε	etlands are not present in the project area.			
	The area does not	ot have a delineated 100-year floodplain or regulatory			
	floodway. Future	e coordination with DOT&PF hydrology section will			
	determine need	for a LHS and/or H&H study.			
		not have an assigned AWC stream number; however,			
		s the culvert conveying Ruth Creek as likely deficient in			
	fish passage.				
	Consider migratory birds and preconstruction surveys. Consider				
	revegetation plan; five invasive plants have been identified.				
Right of Way	Value	Comments			
Confidence in ROW Estimate	None	No ROW impacts anticipated.			
Utilities	Value	Comments			
Confidence in Utility Estimate	None	No utility impacts anticipated.			
Bridge	Value	Comments			
Bridge Work Included	No	No bridge work anticipated.			
Design Notes					
List Assumptions, Unknowns,	Fish passage struct	cure assumed to be structural plate pipe arch 13-ft span x			
etc		sign to verify structure size. Roadway geometry to be			
	modified to meet p	project design criteria.			
Maintenance					
List Assumptions, Unknowns,	Channel migration, upsize pipe recommended. Maintenance effort to be				

reduced.

etc

#18: McCarthy Road MP 56.1 Swift Creek Culvert Replacement

Project Name	McCarthy Road	McCarthy Road MP 56.1 Swift Creek Culvert Replacement					
	Τ.		I				
Priority	Low		_	s assigned based		•	
				. However, it is r	_		
				would jointly imp			
				ns (road and cul [,] nent (fish passa _s	• • • • • • • • • • • • • • • • • • • •	i ine	
Timeline	Medium (5+ ye	arcl		is based on the		a varving	
Timeline	Wiedidiii (51 ye	aisj		improvements t	•		
				sources, beyond			
			program	•			
Scope	Construct a fish	n pass		rt at Swift Creek	near MP 56.1 ar	nd reconstruct	
•				,065 feet of the			
	would include i	impro	vements t	o profile by raisi	ng road, improv	ements to	
	horizontal curv	ature	by realign	ing the road, wi	dth improvemer	nts, roadway	
	signage, and fis		•				
Description		•	-	rt at Swift Creek			
						nts would include	
				widening the na		road would	
				new fish passag			
Budget	Year 1		ear 2	Year 3	Year 4+	TOTAL	
Design (pre- and post- env)	\$ 162,600	Ş	108,400			\$ 271,000	
Utilities						\$ -	
Right of Way						\$-	
Construction				\$2,705,885		\$2,705,885	
TOTAL	\$ 162,600	\$	108,400	\$2,705,885	\$ -	\$2,976,885	
Funding							
Potential Funding Sources	Culverts AOP, S	Culverts AOP, STBG, BFP, BIP, FLAP					
Potential Lead Agency Sponsor	DOT&PF, WFL						
Potential Project Partners	NPS, ADF&G/ USFWS						
Environmental	Value Comments						
Anticipated Environmental Doc	CE						
Section 4(f) involvement?	No						
Permits Required	Yes		USACE S	ection 404 Perm	it; ADF&G Fish I	Habitat Permit	

List Assumptions, Unknowns, Other Environmental Impacts	The purpose of the project is to ensure safe and reliable access for roadway users by meeting current design standards (such as road width, road curvature) and improving fish passage under the McCarthy Road. The culvert is located on a narrow, curved stretch of road. Widening the road and reducing the curve would improve safety and sight lines. Public concerns about a dangerous dip in the roadbed near this location would also be addressed. Several issues near the culvert need improvement. The riprap armoring is absent on the roadway side slopes around the culvert inlet and outlet, leading to erosion risks. Both ADF&G and the CRWP identified the current culvert as a barrier to fish due to its perched height. The large elevation change between the inlet and outlet provides construction challenges without a perch. Scouring on the outlet side due to perch height will continue to increase the elevation change and decrease slope stability leading to further road maintenance issues. To accommodate the new culvert, the road would be raised and resurfaced with new gravel material, improving its condition. Widening the road, reducing the road curvature, replacing the culvert, and adding new gravel material would improve reliability and safety for travelers, reduce maintenance costs, and enhance the environment by facilitating fish passage. • Likely contained within the existing ROW, reducing coordination efforts and chances of delay. • Likely contained within the existing ROW, reducing coordination may reveal unrecorded sites. • There are no known AHRS sites; however future consultation may reveal unrecorded sites. • There is one RS 2477 (Nikolai Mine) and no 17b easements in the area. • NWI-mapped wetlands are not present in the project area. • The area does not have a delineated 100-year floodplain or regulatory floodway. Future coordination with DOT&PF hydrology section will				
		not have an assigned AWC stream number; however, the culvert conveying Ruth Creek as likely deficient in			
		y birds and preconstruction surveys. Consider			
	_	13 invasive plants have been identified.			
Right of Way	Value	Comments			
Confidence in ROW Estimate	None	No ROW impacts anticipated.			
Utilities	Value	Comments			
Confidence in Utility Estimate	None	No utility impacts anticipated.			
Bridge	Value	Comments			
Bridge Work Included	No	No bridge work anticipated.			
Design Notes		-			
List Assumptions, Unknowns, etc	Fish passage structure assumed to be structural plate pipe arch 13-ft span x 9-ft rise. Future design to verify structure size. Roadway geometry to be modified to meet project design criteria.				
Maintenance					
List Assumptions, Unknowns, etc	Erosion concerns at reduced.	culvert inlet and outlet. Maintenance effort to be			
•	_1				

#19: McCarthy Road MP 47.9 Long Lake Creek/Tributary Culvert Replacement

Project Name	McCarthy Road	d MP 47.9 Long	Lake Creek/Trib	outary Culvert R	eplacement
Priority	Low	Priority i	s assigned based	d on other highe	er needs in the
		study co	rridor. However	, it is recognized	that the
		propose	d project would	jointly improve	infrastructure
		conditio	ns (road and cul	vert), safety, an	d the
			nent (fish passa	•	
Timeline	Medium (5+ ye	· ·	is based on the	-	, -
			improvements t		, ,
		_	sources, beyond	solely transpor	tation-centric
		program			
Scope		-	rt at Long Lake C		
			roximately 1,155		-
	-	•	ments to the ro		-
	improvements to horizontal curvature by realigning the road, width				
	improvements, roadway signage, and fish passage improvements.				
Description			rt at Long Lake C	•	
		•	ne McCarthy Roa		
	_		nts would includ	_	
			he road for the	new culvert, and	d adding
	speed limit sigr				
Budget	Year 1	Year 2	Year 3	Year 4+	TOTAL
Design (pre- and post- env)	\$ 175,800	\$ 117,200			\$ 293,000
Utilities					\$ -
Right of Way		\$ 250,000			\$ 250,000
Construction			\$2,927,679		\$2,927,679
TOTAL	\$ 175,800	\$ 367,200	\$2,927,679	\$ -	\$3,470,679

Funding

Potential Funding Sources	Culverts AOP, STBG, BFP, BIP, FLAP
Potential Lead Agency Sponsor	DOT&PF
Potential Project Partners	NPS, WFL, ADF&G/ USFWS

Environmental	Value	Comments
Anticipated Environmental Doc	CE	
Section 4(f) involvement?	No	
Permits Required	Yes	USACE Section 404 Permit; ADF&G Fish Habitat Permit

Draft Purpose & Need	The nurnose of the r	project is to ensure safe and reliable access for roadway	
Draft Fulpose & Need	users by meeting current design standards (such as road width, road		
		oving fish passage under the McCarthy Road.	
	-	d on a narrow, curved stretch of road. Widening the	
		ne curve would improve safety and sight lines,	
	_	ncerns about the curves, dips, and blind corner with	
	brush blocking line o	•	
		taff have identified water drainage issues just east of	
	the culvert near MP		
	Both ADF&G and the	e CRWP identified the current culvert as a barrier to fish.	
	The 5-foot diameter	culvert was damaged during high flows in summer 2023	
	and can no longer pa	ass fish. Replacing the culvert would restore connectivity	
	and improve access	to habitat for anadromous and resident fish species.	
	To accommodate the	e new culvert, the road would be raised and resurfaced	
	with new gravel mat	erial, improving its condition. Widening the road,	
	_	irvature, replacing the culvert, and adding new gravel	
		e reliability and safety for travelers, reduce maintenance	
	costs, and enhance t	he environment by facilitating fish passage.	
List Assumptions, Unknowns,		acre of the project footprint falls outside of the road	
Other Environmental Impacts	ROW on state-owned land, requiring additional coordination.		
		vn AHRS sites; future consultation may reveal	
	unrecorded sites.		
	• There are no RS 24	477s or 17b easements in the area.	
	• Up to 0.4 acre of N	NWI-mapped wetlands (freshwater forested/ shrub	
	wetlands) may be	impacted.	
	 The area does not 	have a delineated 100-year floodplain or regulatory	
	floodway. Future	coordination with DOT&PF hydrology section will	
	determine need for	or a LHS and/or H&H study.	
	The Long Lake Cre	ek/ tributary is anadromous.	
	 Consider migrator 	y birds and preconstruction surveys. Consider	
	revegetation plan	; five invasive plants have been identified.	
Right of Way	Value	Comments	
		Comments	
Confidence in ROW Estimate	Moderate	ROW area impacted is 0.4 acres. DOT&PF ROW	
Confidence in ROW Estimate	1	1	
Confidence in ROW Estimate Utilities	1	ROW area impacted is 0.4 acres. DOT&PF ROW	
	Moderate	ROW area impacted is 0.4 acres. DOT&PF ROW provided SSE estimate in March 2025.	
Utilities Confidence in Utility Estimate Bridge	Moderate Value	ROW area impacted is 0.4 acres. DOT&PF ROW provided SSE estimate in March 2025. Comments No utility impacts anticipated. Comments	
Utilities Confidence in Utility Estimate	Moderate Value None	ROW area impacted is 0.4 acres. DOT&PF ROW provided SSE estimate in March 2025. Comments No utility impacts anticipated.	
Utilities Confidence in Utility Estimate Bridge	Value None Value	ROW area impacted is 0.4 acres. DOT&PF ROW provided SSE estimate in March 2025. Comments No utility impacts anticipated. Comments	
Utilities Confidence in Utility Estimate Bridge Bridge Work Included	Value None Value No	ROW area impacted is 0.4 acres. DOT&PF ROW provided SSE estimate in March 2025. Comments No utility impacts anticipated. Comments	
Utilities Confidence in Utility Estimate Bridge Bridge Work Included Design Notes	Value None Value No Fish passage structu 9-ft rise. Future desi	ROW area impacted is 0.4 acres. DOT&PF ROW provided SSE estimate in March 2025. Comments No utility impacts anticipated. Comments No bridge work anticipated. re assumed to be structural plate pipe arch 13-ft span x gn to verify structure size. Roadway geometry to be	
Utilities Confidence in Utility Estimate Bridge Bridge Work Included Design Notes List Assumptions, Unknowns, etc	Value None Value No Fish passage structu	ROW area impacted is 0.4 acres. DOT&PF ROW provided SSE estimate in March 2025. Comments No utility impacts anticipated. Comments No bridge work anticipated. re assumed to be structural plate pipe arch 13-ft span x gn to verify structure size. Roadway geometry to be	
Utilities Confidence in Utility Estimate Bridge Bridge Work Included Design Notes List Assumptions, Unknowns,	Value None Value No Value No Fish passage structu 9-ft rise. Future desi	ROW area impacted is 0.4 acres. DOT&PF ROW provided SSE estimate in March 2025. Comments No utility impacts anticipated. Comments No bridge work anticipated. re assumed to be structural plate pipe arch 13-ft span x gn to verify structure size. Roadway geometry to be oject design criteria.	
Utilities Confidence in Utility Estimate Bridge Bridge Work Included Design Notes List Assumptions, Unknowns, etc	Value None Value No Value No Fish passage structu 9-ft rise. Future desi	ROW area impacted is 0.4 acres. DOT&PF ROW provided SSE estimate in March 2025. Comments No utility impacts anticipated. Comments No bridge work anticipated. re assumed to be structural plate pipe arch 13-ft span x gn to verify structure size. Roadway geometry to be	

#20: McCarthy Road MP 59.8 Clear Creek Culvert Replacement

Project Name	McCarthy Roa	d MP 59.8 Clear	Creek Culvert R	eplacement	
Priority	Low	corridor project v conditio	s assigned based . However, it is r would jointly imp ns (road and cul ment (fish passag	ecognized that a prove infrastructivert), safety, an	the proposed ture
Timeline	Medium (5+ ye	*	is based on the	•	, ,
			improvements t sources, beyond s.		, ,
Scope			t at Clear Creek		
			45 feet of the M		
	•		oad profile by ra	•	
			ge, and fish pass		
Description		-	t at Clear Creek		
		•	adjacent roadwa	•	
		•	d raised to accor		
	culvert. This area is also the location where people collect water for drinking, so impacts to that would need to be considered and addressed.				
Budget	Year 1	Year 2	Year 3	Year 4+	TOTAL
			Teal 5	1 E a 1 4 T	
Design (pre- and post- env)	\$ 134,400	\$ 89,600			\$ 224,000
Utilities					\$ -
Right of Way					\$ -
Construction			\$2,232,796		\$2,232,796
TOTAL	\$ 134,400	\$ 89,600	\$2,232,796	\$ -	\$2,456,796
Funding					

Potential Funding Sources	Culverts AOP, FLAP, FLTP (possibly in combination with Project #15)
Potential Lead Agency Sponsor	DOT&PF
Potential Project Partners	NPS, WFL, ADF&G/ USFWS

Potential Project Partners	NPS, WFL, ADF&G/ USFWS		
Environmental	Value	Comments	
Anticipated Environmental Doc	CE		
Section 4(f) involvement?	Potential for	AHRS sites present in close vicinity (two sites do not	
	involvement	have a determination of eligibility). National Park	
		Service land.	
Permits Required	Yes	USACE Section 404 Permit; ADF&G Fish Habitat Permit	
Draft Purpose & Need	The purpose of the project is to ensure safe and reliable access for roadway users by meeting current design standards (e.g., road width) and improving fish passage under the McCarthy Road. The culvert is located on a narrow stretch of road and in a dip. A member of the public indicated this is sometimes the worst spot on the entire road during the winter months. Both ADF&G and the CRWP identified the culvert as a barrier to fish and as lacking substrate in the culvert. The CRWP also indicated there are beaver conflicts in the area with dams being built inside the pipe that result in road flooding. Vehicles driving through these waters results in water quality degradation, which impacts both the community drinking water and fish		

	with new gravel mat road. Widening the material would impr	e new culvert, the road would be raised and resurfaced terial, improving its condition and reducing the dip in the road, replacing the culvert, and adding new gravel rove reliability and safety for travelers, reduce and enhance the environment by facilitating fish		
List Assumptions, Unknowns, Other Environmental Impacts	 Approximately 0.09 acre of the project footprint falls outside of the road ROW on NPS-owned land. However, DOT&PF and NPS intend to resolve the ROW discrepancy, so the road ROW incorporates the existing road location. 			
	There are two known reveal unrecorded	own AHRS sites in the area; future consultation may d sites.		
	The vault toilet factory by the MAC.	cilities near the swimming hole vicinity are maintained		
	• There are no RS 24	477s or 17b easements in the area.		
	• Up to 0.18 acre of be impacted.	f NWI-mapped freshwater forested/shrub wetlands may		
	· ·	licated this area provides an important drinking water mmunity and visitors.		
	floodway. Future of determine need for	t have a delineated 100-year floodplain or regulatory coordination with DOT&PF hydrology section will or a LHS and/or H&H study.		
	Clear Creek is anadromous. Consider a signature binds and are apparent and a second and a			
	_	 Consider migratory birds and pre-construction surveys. Consider revegetation plan; five invasive plants have been identified. 		
Right of Way	Value	Comments		
Confidence in ROW Estimate	Moderate	ROW area impacted is 0.1 acres. DOT&PF ROW provided SSE estimate in March 2025.		
Utilities	Value	Comments		
Confidence in Utility Estimate	None	No utility impacts anticipated.		
Bridge	Value	Comments		
Bridge Work Included	No	No bridge work anticipated.		
Design Notes				
List Assumptions, Unknowns, etc	Fish passage structure assumed to be structural plate pipe arch 13-ft span x 9-ft rise. Future design to verify structure size. Roadway geometry to be modified to meet project design criteria.			
Maintenance				
List Assumptions, Unknowns, etc	Beaver conflicts, plugged pipe, flooded road. Maintenance effort to be reduced.			
1				