MEMORANDUM

State of Alaska

Department of Transportation & Public Facilities

TO: Sarah E. Schacher, P.E.,

Preconstruction Engineer

Northern Region

DATE: September 1, 2017

FILE NO: I:\Traffic

Data\Design\2017\McCarthyRd@Chokosna FNHWY0

TELEPHONE 451-5150

NO:

Judy Chapman

Planning Chief Northern Region

SUBJECT: McCarthy Rd MP 27 Chokosna River Bridge

#1193 FNHWY00125/0850028 Design Designation Request

Please approve the attached design designation by signing the endorsement below which enables your staff to proceed.

Any questions should be directed to Scott Vockeroth at 451-2251.

Sarah E. Schacher, P.E., Preconstruction Engineer

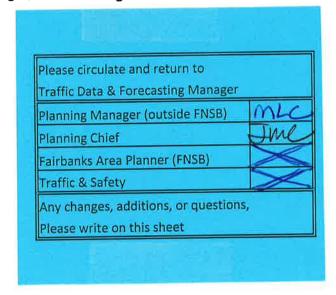
SGV

cc:

Colleen Ackiss, P.E., Engineering Manager, Northern Region

Attachment

Mullimen



DESIGN DESIGNATION Northern Region Planning Traffic Data & Forecasting

ROUTE NAME: Edgerton Hwy/McCarthy Rd

STATE ROUTE NO: 198000

CDS MILEAGE: 60.6805-60.6995 **FUNCTIONAL CLASS:** Major Collector

URBAN/RURAL: Rural

	YEAR	AADT	%	
	2016	85		
AADT	2030 2040	95 110		
DHV	2030 2040		21.40%	20 25
D				35-65
			11.00 %	Total
Т			9.00	Class 5
			1.25	Class 6
			0.30	Class 8
			0.30	Class 9
			0.15	Class 10
ESAL'S (Design Lane)	To Be Provided by Design			

MEMORANDUM

State of Alaska

Department of Transportation & Public Facilities Northern Region Design and Engineering Services

TO: Judy Chapman Planning Chief

Northern Region

TW For

THRU: Sarah E. Schacher, P.E.

Preconstruction Engineer

Northern Region

FROM: Colleen M. Ackiss, P.E. College

Engineering Manager Northern Region **DATE:** July 11, 2017

FILE NO: H:\(\text{Projects\McCarthy_Rd\NFWHY00125_McCarthy_Rd_MP27_C}\)
hokosnaBrdg\(\text{Design\PS&E\Design_Designation&Criteria}\)

PHONE NO: 907-451-5179

FAX NO: 907-451-5126

SUBJECT: McCarthy Road MP 27 Chokosna

River Bridge #1193 FNHWY00125/0850028 Design Designation Request

Please provide a Design Designation for the subject project.

Present AADT

Design Year AADT (2040)

Mid-Design Period AADT (2030)

Design Hourly Volume

Directional Split

Percent Trucks

Design Functional Classification

Intersection Turning Movement Counts at:

Other (Specify)

The project is scheduled for construction in FY2019.

Please complete the attached Traffic Data Request Form.

Attachment: as stated

BD Btd\lsd 🖏

	ta Request		olic Facilities	TDR Form-1-10/20/03
Alaska Department of Transportation & Pub Requested By:			Design Project Number:	Date Requested:
BRUCE DIANSKI' Base Year: Base Year Total AADT: 85 AADT Growth Rate			Common Route Name: McCArky 10040 Functional Class: Collector Urban/Rural	7/10/17 CDS Route Name: たから 198000
Back Cast (/yr): ˌˌɹઽ End` %/yr): Begi	Year: 197() n Year:	Historic M.P. Interval: M./モ Past 2の た 2g	CDS M.P. Interval: 26.1396 To 28.1716
Truck Category	Load Factor (ESALs per Truck)	% of Total AADT in Truck Category	Lane Configuration Sketch (Designer: Provide sketch of lane is show directions.) McCarthy LANE #1	h:
2-axle	, , , , , , , , , , , , , , , , , , , ,			
3-axle		See		1 / 5
4-axle	- 14	attached		2
5-axle			Chitna	,
≥ 6-axle	31			
7.00	e Year Total AAI e in Configuratio		Comments:	
Lane#	% 35			
Lane# 🕽	% 65			
Lane#	%			
Lane #	%			
Lane# %				
Lane # %			77.0	
Data Provided By: Provider's			Signature:	Date Provided:
Scott Vockerath			* /	9/1/17

Figure 6-1, Traffic Data Request (TDR) Form

Transportation & Public Facilities Roadway Information Portal (RIP)

Report Route Log

CDS Route EDGERTON HWY/MCCARTHY RD (198000)

From Milepoint 58

To Milepoint 63

Filter

FacilityType INTERCHANGE RAMP;NON-INVENTORY;WYE;SECONDARY

FERRY ACCESS; ROUNDABOUT; PRIMARY FERRY ACCESS;

NON-INTERCHANGE RAMP; MAINLINE; CONNECTOR

Milepoint		Attribute	Side	Feature CDS	Description	Viewer	
58		Maintenance Station	-	(s)	ERNESTINE STATION (Start at Milepoint 0)	*	6
58		Functional Class	2	•	MAJOR COLLECTOR (Start at Milepoint 0)	*	0
58		Speed	•	*	30 (Start at Milepoint 32.1089)	*	0
58.8525		Milepost	R	8	25	*	(a)
59.8981	6	Milepost	R		26	*	0
60.6295		Milepost	L	=:	27	*	0
60.6805		Bridge	U	(#)	Start CHOKOSNA RIVER (1193)	*	0
60.6995		Bridge	U	-	End CHOKOSNA RIVER (1193)	*	(a)
60.7065		Traffic Station	12	ii .	32352000	×	6
62.8415		Bridge	U	-	Start GILAHINA RIVER (1194)	*	(0)
62.8495		Bridge	U	ш	End GILAHINA RIVER (1194)	*	0
62.8852		Milepost	R		29	*	(a)

Computations and Historic Data

Project: McCarthy Rd MP 27 Chokosna River Bridge

Project # FNHWY00125/0850028

Historic AADT

Route:	198000	Year	AADT
Station:	32352000	2000	
	Edgerton Hwy @ Chokosna Bridge	2001	
Milepoint:	60.706	2002	54
		2003	51
		2004	79
		2005	55
		2006	79
		2007	
		2008	110
		2009	100
		2010	
		2011	104
		2012	136
		2013	116
		2014	115
		2015	83

Growth rate for calculations was 1.25% due to historic traffic patterns

Growth Rate factors

2035 1.1902050 1.347

Future AADTs

Year	AADT
2016	85
2030	95
2040	110

K-factor 21.40% **DHV=** 2030 20 2040 25

Direction Split (D)= 35-65

Class Data

198000	_	CDC MAD	Year	Percent By Class							
Station #	Description	CDS MP		4	5	6	8	9	10	13	Total Truck %
32346000	Edgerton East of Richardson Hwy	1.161	2016	0.00	9.00	1.25	0.30	0.30	0.15	0.00	11.00
		Load Fact	ors	1	0.50	0.85	1.20	1.55	2.24	2.24	li .
		# Axles		2/3	2	3	4	5	6	7+	1