

Figure 1. Forecast AADT, Person-Miles Traveled (PMT), and Crashes

Bridge #		AADT ¹		HCAADT ²		Existing Length (Miles)		Annual PMT ³		Annual PMT	Annual Crashes	PMT % Change
		29-69.374	29-69.374N	26-69.374	29-69.374N	29-69.374	29-69.374 N	29-69.374	29-69.374 N	Both Bridges	in Project Area ⁴	(from 2022)
Year	2022	2681	7175	429	1148	0.055	0.039	83,996	161,231	245,226	3.9	0%
	2023	2869	7426	459	1188	0.055	0.039	89,875	166,874	256,749	4.1	4.7%
	2024	3069	7686	491	1230	0.055	0.039	96,167	172,714	268,881	4.3	9.6%
	2025	3284	7955	525	1273	0.055	0.039	102,898	178,759	281,658	4.5	14.9%
	2026	3514	8233	562	1317	0.055	0.039	110,101	185,016	295,117	4.7	20.3%
	2027	3760	8522	602	1363	0.055	0.039	117,808	191,491	309,300	4.9	26.1%
	2028	4023	8820	644	1411	0.055	0.039	126,055	198,194	324,249	5.1	32.2%
	2029	4305	9129	689	1461	0.055	0.039	134,879	205,130	340,009	5.4	38.7%
	2030	4606	9448	737	1512	0.055	0.039	144,320	212,310	356,630	5.6	45.4%
	2031	4929	9779	789	1565	0.055	0.039	154,423	219,741	374,164	5.9	52.6%
	2032	5274	10121	844	1619	0.055	0.039	165,232	227,432	392,664	6.2	60.1%
	2033	5643	10475	903	1676	0.055	0.039	176,799	235,392	412,190	6.5	68.1%
	2034	6038	10842	966	1735	0.055	0.039	189,174	243,631	432,805	6.8	76.5%
	2035	6461	11221	1034	1795	0.055	0.039	202,417	252,158	454,574	7.1	85.4%
	2036	6913	11614	1106	1858	0.055	0.039	216,586	260,983	477,569	7.4	94.7%
	2037	7397	12021	1184	1923	0.055	0.039	231,747	270,118	501,864	7.8	104.7%
	2038	7915	12441	1266	1991	0.055	0.039	247,969	279,572	527,541	8.1	115.1%
	2039	8469	12877	1355	2060	0.055	0.039	265,327	289,357	554,684	8.5	126.2%
	2040	9062	13327	1450	2132	0.055	0.039	283,900	299,484	583,384	8.9	137.9%
	2041	9696	13794	1551	2207	0.055	0.039	303,773	309,966	613,739	9.3	150.3%
	2042	10375	14277	1660	2284	0.055	0.039	325,037	320,815	645,852	9.8	163.4%
	2043	11101	14776	1776	2364	0.055	0.039	347,790	332,043	679,833	10.2	177.2%
	2044	11878	15294	1900	2447	0.055	0.039	372,135	343,665	715,800	10.7	191.9%
	2045	12709	15829	2033	2533	0.055	0.039	398,184	355,693	753,877	11.2	207.4%

¹AADT calculated from 2022 turning movement counts, peak hour factor rates, and compound annual growth rate identified in the I-29 & 40th Ave N (CR 20) Interchange Feasibility Study: Traffic Operations Analysis Report.

²HCAADT: Heavy Commercial Annual Average Daily Traffic (Source: NBI Item No. 109-Truck ADT)

³PMT is calculated using AADT, HCAADT, passenger vehicle occupancy of 1.67, heavy commercial vehicle occupancy of 1.00, length of bridges in miles, and days of year.

⁴Annual crashes within the Project area are calculated by proportional increase of total annual PMT and does not reflect a [crash rate increase anticipated with traffic growth](#).