



LEVEL OF SERVICE (LOS) EXPLANATION

What is Level of Service

Level of Service, commonly referred to with the abbreviation LOS, is a metric used to evaluate the performance of roadways and transportation elements, such as intersections, freeway entrances, and transit service, among others. Though LOS provides a qualitative assessment (i.e., a measurement of the quality of roadway performance), LOS requires calculations that rely on quantitative metrics, such as traffic speed, volume, and density. LOS was first introduced in the 1965 edition of the Highway Capacity Manual (HCM), published by the Transportation Research Board. The most recent version of the HCM was published in January 2022.

LOS is used during planning processes to evaluate the need for, and impacts of, project development. Transportation engineers rely on LOS to determine the size and scope of development projects - i.e., what changes should be implemented and where.

The HCM relies on a letter grade system for rating Level of Service (LOS):

<u>Level of Service</u>	<u>General Operating Conditions</u>
A	Free flow, with low volumes and high speeds.
B	Reasonably free flow, but speeds beginning to be restricted by traffic conditions.
C	Stable flow, but most drivers are restricted in the freedom to select their own speeds.
D	Approaching unstable flow; drivers have little freedom to select their own speeds.
E	Unstable flow; may be short stoppages.
F	Forced or breakdown flow; unacceptable congestion; stop-and-go.

Source: What Is LOS? Planopedia page. Retrieved August, 19, 2024, from [What Is LOS? | Planetizen Planopedia](#).

BEL-070-09.35 Preliminary Preferred Alternative LOS Year 2047

Intersection	Control	Approach	2047 No Build	2047 Build
			LOS - AM (MID) [PM]	LOS - AM (MID) [PM]
SR149 & Bond Dr	Signalized	NB	A (A) [A]	A (A) [A]
		SB	B (A) [F]	A (A) [A]
		EB	C (C) [F]	C (C) [C]
		WB	D (C) [F]	C (C) [D]
SR149 & IR70 WB Ramp	Signalized	NB	D (C) [F]	A (B) [C]
		SB	E (E) [F]	B (B) [C]
		WB	F (F) [F]	C (C) [C]
SR149 & IR70 EB Ramp	Signalized	NB	C (D) [D]	A (A) [A]
		SB	D (C) [D]	B (A) [A]
		EB	D (D) [F]	B (B) [C]
SR149 & Reco Dr	Signalized	NB	F (C) [F]	B (B) [B]
		SB	B (B) [B]	B (B) [B]
		EB	D (D) [F]	B (C) [C]
		WB	-	C (C) [C]
SR149 & Travel Centers' Truck Entrances	Signalized	NB	-	B (B) [C]
		SB	-	A (A) [A]
		EB	-	E (D) [E]
		WB	-	B (B) [B]