

11.3. Network Performance Comparison

As shown in **Table 136** through **Table 138**, the Build scenario provides better network performance when compared to the No-Build scenario in each of the future year peak hours. Performance metrics such as average delay, average speed, total delay, latent demand, latent delay, and vehicles arrived are better in the Build when compared to the No-Build for each analysis year analyzed. The reduction of latent demands and latent delay is due to the operational improvements at the I-4 and Sand Lake Road interchange and the westbound express lane “Tube”.

Table 136: Network Performance Comparison (2026 No-Build and Build)

Time Period	Scenario	Average Delay (seconds)	Average Speed (mph)	Total Delay (hr)	Latent Demand (veh)	Latent Delay (hr)	Vehicles Arrived
AM	No-Build	211.6	26.9	2,711	9,370	5,596	40,557
	Build	132.3	33.5	1,737	7,518	4,796	42,513
	Difference	79.3	6.6	974	1,852	800	1,956
PM	No-Build	223.5	24.9	3,211	12,359	8,366	45,454
	Build	208.7	25.9	3,094	8,987	5,860	47,160
	Difference	14.8	1.0	117	3,372	2,506	1,706

*Note: Bold text indicates an improvement in the Build scenario over the No-Build scenario.

Table 137: Network Performance Comparison (2036 No-Build and Build)

Time Period	Scenario	Average Delay (seconds)	Average Speed (mph)	Total Delay (hr)	Latent Demand (veh)	Latent Delay (hr)	Vehicles Arrived
AM	No-Build	239.8	24.1	3,445	15,666	9,991	45,285
	Build	179.6	28.1	2,679	12,732	8,532	47,587
	Difference	60.2	4.0	766	2,934	1,459	2,302
PM	No-Build	301.2	21.2	4,250	28,333	20,157	43,567
	Build	259.6	22.7	3,980	19,056	13,191	48,091
	Difference	41.6	1.5	270	9,277	6,967	4,524

*Note: Bold text indicates an improvement in the Build scenario over the No-Build scenario.

Table 138: Network Performance Comparison (2046 No-Build and Build)

Time Period	Scenario	Average Delay (seconds)	Average Speed (mph)	Total Delay (hr)	Latent Demand (veh)	Latent Delay (hr)	Vehicles Arrived
AM	No-Build	264.9	22.3	3,933	28,659	19,284	46,535
	Build	237.8	23.2	3,743	23,208	15,544	49,624
	Difference	27.1	1.1	190	5,451	3,740	3,089
PM	No-Build	348.3	19.1	4,914	45,656	33,747	43,024
	Build	307.7	20.3	4,781	32,811	23,437	48,298
	Difference	40.6	1.2	133	12,845	10,310	5,274

***Note:** Bold text indicates an improvement in the Build scenario over the No-Build scenario.