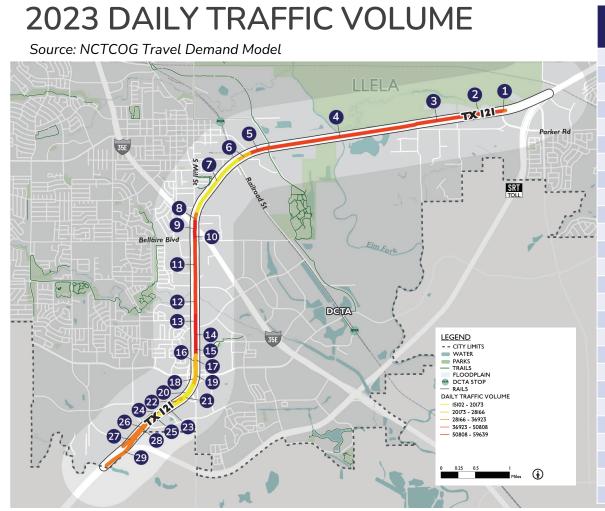


Traffic Demand Assessment Summary

Business 121 Corridor Plan - Appendix 335



336 Business 121 Corridor Plan - Appendix



ID	Roadway Segment	Daily Traffic Volume	Daily Truck Volume	% Truck Traffic
1	SRT merge to FM 544	34,013	1,737	5.1%
2/3	FM 544 to Huffines	46,069	2,552	5.5%
4	Huffines to Valley Ridge	50,808	2,626	5.2%
5	Valley Ridge to Main	45,317	2,263	5.0%
6	Main to Railroad	23,098	1,587	6.9%
7	Railroad to Texas	15,102	1,189	7.9%
8	Texas to I-35E NB Frontage	34,756	2,511	7.2%
9	I-35E NB to SB Frontage	56,212	2,873	5.1%
10	I-35E SB Frontage to Bellaire	53,766	2,017	3.8%
11	Bellaire to Southwest	45,360	2,039	4.5%
12	Southwest to Valley View	49,609	2,094	4.2%
13	Valley View to Corporate	59,639	2,238	3.8%
14/15	Corporate to Forestbrook	56,711	3,445	6.1%
16	121 SB between ramps	28,166	1,839	6.5%
17	121 NB between ramps	27,812	1,602	5.8%
18	121 SB at Round Grove	20,173	1,588	7.9%
19	121 NB at Round Grove	27,168	1,599	5.9%
20	121 SB merge	20,713	1,588	7.7%
21	121 NB merge	18,191	1,355	7.4%
22	121 SB merge to High Point Oaks	22,531	1,712	7.6%
23	121 NB merge to High Point Oaks	19,859	1,480	7.5%
24	121 SB High Point Oaks to Vista Ridge	22,531	1,712	7.6%
25	121 NB High Point Oaks to Vista Ridge	19,859	1,480	7.5%
26/27	121 SB Vista Ridge to Valley Pkwy	35,660	2,031	5.7%
28	121 NB Ramp	36,677	1,915	5.2%
29	121 NB Ramp to Valley Pkwy	36,923	1,918	5.2%

2045 FORECASTED DAILY TRAFFIC VOLUME

Source: NCTCOG Travel Demand Model



ID	Roadway Segment	Daily Traffic Volume	Daily Truck Volume	% Truck Traffic
1	SRT merge to FM 544	38,360	2,127	5.5%
2	FM 544 to Fish Hatchery	47,109	2,715	5.8%
3	Fish Hatchery to Huffines	46,535	2,699	5.8%
4	Huffines to Valley Ridge	53,791	2,911	5.4%
5	Valley Ridge to Main	34,719	2,187	6.3%
6	Main to Railroad	19,305	1,013	5.2%
7	Railroad to Texas	11,636	639	5.5%
8	Texas to I-35E NB Frontage	44,094	2,188	5.0%
9	I-35E NB to SB Frontage	56,254	2,076	3.7%
10	I-35E SB Frontage to Bellaire	63,394	2,011	3.2%
11	Bellaire to Southwest	50,530	2,117	4.2%
12	Southwest to Valley View	54,959	2,184	4.0%
13	Valley View to Corporate	66,870	2,275	3.4%
14/15	Corporate to Forestbrook	65,141	3,465	5.3%
16	121 SB between ramps	32,198	1,724	5.4%
17	121 NB between ramps	31,102	1,709	5.5%
18	121 SB at Round Grove	20,841	1,461	7.0%
19	121 NB at Round Grove	29,930	1,701	5.7%
20	121 SB merge	20,841	1,461	7.0%
21	121 NB merge	16,022	1,332	8.3%
22	121 SB merge to High Point Oaks	23,626	1,563	6.6%
23	121 NB merge to High Point Oaks	18,027	1,453	8.1%
24	121 SB High Point Oaks to Vista Ridge	22,922	1,561	6.8%
25	121 NB High Point Oaks to Vista Ridge	17,756	1,453	8.2%
26/27	121 SB Vista Ridge to Valley Pkwy	39,963	2,143	5.4%
28/29	121 NB Ramp to Valley Pkwy	40,363	2,247	5.6%

2023 – 2045 CHANGE IN TRAFFIC VOLUMES

Source: NCTCOG Travel Demand Model

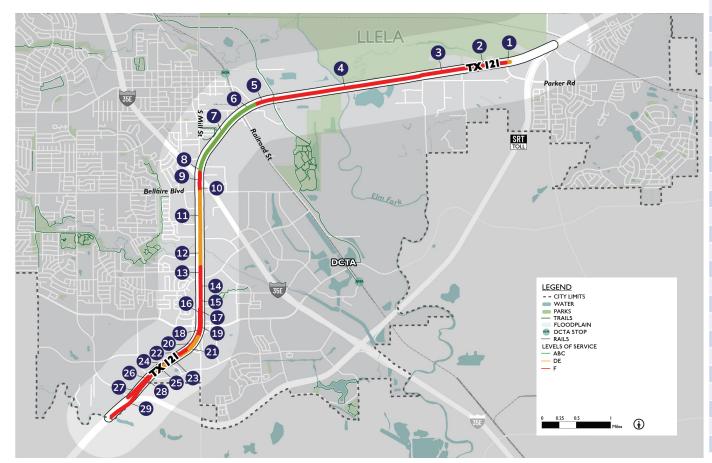
KEY TAKEAWAYS – TRAFFIC VOLUMES

- In 2023, the Corporate Drive sub-area and the I-35E interchange experienced the highest traffic volumes; this is projected to remain the same in 2045
- Total projected increase in traffic volumes along corridor from 2023 to 2045 is 66,592 daily trips, which equates to a 6.4% increase
- Roadway segments that are anticipated to experience less traffic in 2045 than they do today are primarily from Valley Ridge to Texas St
- Total truck traffic volumes are expected to decrease along the corridor from 2023 to 2045 by 748 daily trips, which equates to a **1.3% decrease**

ID	Roadway Segment	Overall Traf	Overall Traffic Volumes		Truck Traffic Volumes	
		Absolute Change	% Change	Absolute Change	% Change	
1	SRT merge to FM 544	+ 4,347	12.8%	+ 390	22.5%	
2	FM 544 to Fish Hatchery	+ 1,040	2.3%	+ 163	6.4%	
3	Fish Hatchery to Huffines	+ 466	1.0%	+ 147	5.8%	
4	Huffines to Valley Ridge	+ 2,983	5.9%	+ 285	10.9%	
5	Valley Ridge to Main	- 10,598	-23.4%	- 76	-3.4%	
6	Main to Railroad	- 3,793	-16.4%	- 574	-36.2%	
7	Railroad to Texas	- 3,466	-23.0%	- 550	-46.3%	
8	Texas to I-35E NB Frontage	+ 9,388	26.9%	- 323	-12.9%	
9	I-35E NB to SB Frontage	+ 42	0.1%	- 797	-27.7%	
10	I-35E SB Frontage to Bellaire	+ 9,628	17.9%	- 6	-0.3%	
11	Bellaire to Southwest	+ 5,170	11.4%	+ 78	3.8%	
12	Southwest to Valley View	+ 5,350	10.8%	+ 90	4.3%	
13	Valley View to Corporate	+ 7,231	12.1%	+ 37	1.7%	
14/15	Corporate to Forestbrook	+ 8,430	14.9%	+ 20	0.6%	
16	121 SB between ramps	+ 4,032	14.3%	- 115	-6.3%	
17	121 NB between ramps	+ 3,290	11.8%	+ 107	6.7%	
18	121 SB at Round Grove	+ 668	3.3%	- 127	-8.0%	
19	121 NB at Round Grove	+ 2,762	10.2%	+ 102	6.4%	
20	121 SB merge	+ 128	0.6%	- 127	-8.0%	
21	121 NB merge	- 2,169	-11.9%	- 23	-1.7%	
22	121 SB merge to High Point Oaks	+ 1,095	4.9%	- 149	-8.7%	
23	121 NB merge to High Point Oaks	- 1,832	-9.2%	- 27	-1.8%	
24	121 SB High Point Oaks to Vista Ridge	+ 391	1.7%	- 151	-8.8%	
25	121 NB High Point Oaks to Vista Ridge	- 2,103	-10.6%	- 27	-1.8%	
26/27	121 SB Vista Ridge to Valley Pkwy	+ 4,303	12.1%	+ 112	5.5%	
28	121 NB Ramp	+ 3,686	10.0%	+ 332	17.3%	
29	121 NB Ramp to Valley Pkwy	+ 3,440	9.3%	+ 329	17.2%	

2023 LEVEL OF SERVICE

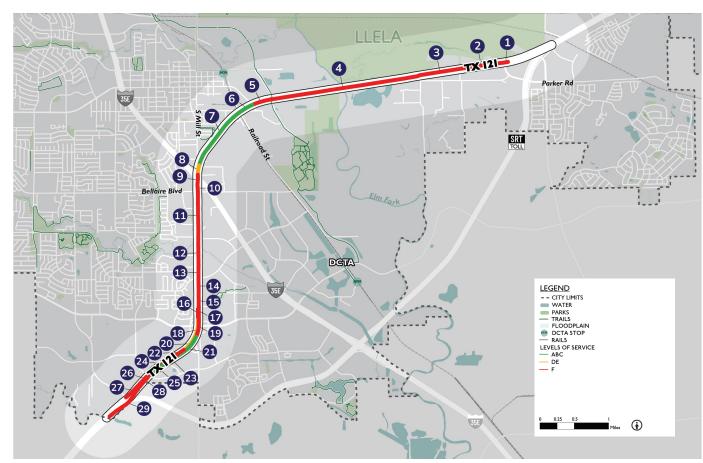
Source: NCTCOG Travel Demand Model



ID	Roadway Segment	LOS
1	SRT merge to FM 544	DE
2/3	FM 544 to Huffines	F
4	Huffines to Valley Ridge	F
5	Valley Ridge to Main	F
6	Main to Railroad	ABC
7	Railroad to Texas	ABC
8	Texas to I-35E NB Frontage	ABC
9	I-35E NB to SB Frontage	ABC
10	I-35E SB Frontage to Bellaire	F
11	Bellaire to Southwest	F
12	Southwest to Valley View	DE
13	Valley View to Corporate	F
14/15	Corporate to Forestbrook	F
16	121 SB between ramps	F
17	121 NB between ramps	F
18	121 SB at Round Grove	F
19	121 NB at Round Grove	F
20	121 SB merge	F
21	121 NB merge	DE
22	121 SB merge to High Point Oaks	F
23	121 NB merge to High Point Oaks	DE
24	121 SB High Point Oaks to Vista Ridge	F
25	121 NB High Point Oaks to Vista Ridge	DE
26/27	121 SB Vista Ridge to Valley Pkwy	F
28	121 NB Ramp	F
29	121 NB Ramp to Valley Pkwy	F

2045 FORECASTED LEVEL OF SERVICE

Source: NCTCOG Travel Demand Model



ID	Roadway Segment	LOS
1	SRT merge to FM 544	F
2/3	FM 544 to Huffines	F
4	Huffines to Valley Ridge	F
5	Valley Ridge to Main	F
6	Main to Railroad	ABC
7	Railroad to Texas	ABC
8	Texas to I-35E NB Frontage	DE
9	I-35E NB to SB Frontage	F
10	I-35E SB Frontage to Bellaire	F
11	Bellaire to Southwest	F
12	Southwest to Valley View	F
13	Valley View to Corporate	F
14/15	Corporate to Forestbrook	F
16	121 SB between ramps	F
17	121 NB between ramps	F
18	121 SB at Round Grove	DE
19	121 NB at Round Grove	F
20	121 SB merge	DE
21	121 NB merge	ABC
22	121 SB merge to High Point Oaks	F
23	121 NB merge to High Point Oaks	ABC
24	121 SB High Point Oaks to Vista Ridge	F
25	121 NB High Point Oaks to Vista Ridge	ABC
26/27	121 SB Vista Ridge to Valley Pkwy	F
28	121 NB Ramp	F
29	121 NB Ramp to Valley Pkwy	F

2023 – 2045 CHANGE IN LEVEL OF SERVICE

Source: NCTCOG Travel Demand Model

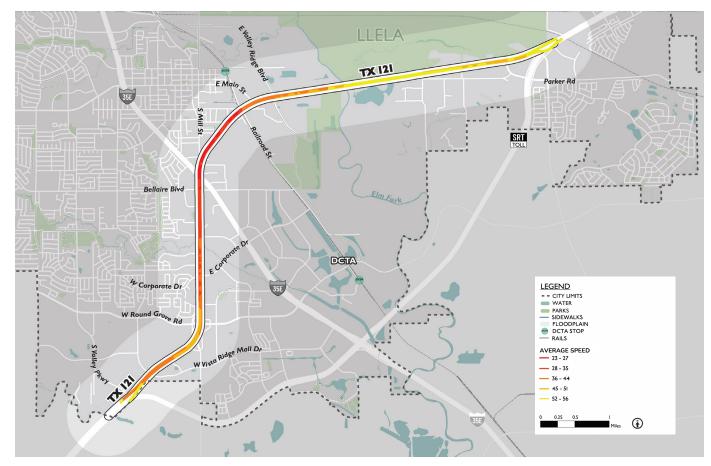
KEY TAKEAWAYS – LEVEL OF SERVICE

- Level of service is a measure that evaluates the level of congestion based on the **speed and number of vehicles** on a given roadway segment.
- A designation of ABC represents free-flowing conditions while LOS F is stop and go traffic.
- In 2023 and 2045, the area between Main to Texas is the only segment that is LOS ABC in both forecast years
- The majority of segments **maintained the same level** of service from 2023 to 2045
- Some segments south of Round Grove are anticipated to experience an improvement in level of service between 2023 to 2045

ID	Roadway Segment	2023 LOS	2045 LOS	2023 to 2045 Change
1	SRT merge to FM 544	DE	F	-
2/3	FM 544 to Huffines	F	F	=
4	Huffines to Valley Ridge	F	F	=
5	Valley Ridge to Main	F	F	=
6	Main to Railroad	ABC	ABC	-
7	Railroad to Texas	ABC	ABC	=
8	Texas to I-35E NB Frontage	ABC	DE	+
9	I-35E NB to SB Frontage	ABC	F	-
10	I-35E SB Frontage to Bellaire	F	F	=
11	Bellaire to Southwest	F	F	=
12	Southwest to Valley View	DE	F	-
13	Valley View to Corporate	F	F	=
14/15	Corporate to Forestbrook	F	F	=
16	121 SB between ramps	F	F	=
17	121 NB between ramps	F	F	=
18	121 SB at Round Grove	F	DE	1
19	121 NB at Round Grove	F	F	=
20	121 SB merge	F	DE	
21	121 NB merge	DE	ABC	
22	121 SB merge to High Point Oaks	F	F	=
23	121 NB merge to High Point Oaks	DE	ABC	
24	121 SB High Point Oaks to Vista Ridge	F	F	=
25	121 NB High Point Oaks to Vista Ridge	DE	ABC	1
26/27	121 SB Vista Ridge to Valley Pkwy	F	F	=
28	121 NB Ramp	F	F	=
29	121 NB Ramp to Valley Pkwy	F	F	=

2023 AVERAGE SPEED

Source: Replica



Along the corridor, average speeds are lowest between Railroad Street and Southwest Parkway and are highest between the Elm Fork and Huffines. Page left intentionally blank.