



## TECHNICAL MEMORANDUM

Date: March 19, 2024

Subject: Crash Analysis of Lower Roswell Road in Cobb County for years 2014 – 2023

Gresham Smith has completed an analysis historical crashes reported along the segment of Lower Roswell Road between Woodlawn Drive and Davidson Road in Cobb County for the period of ten (10) years from 2014 through 2023. The crash analysis was performed to support the Cobb County Department of Transportation Project # E6020 (Lower Roswell Road Central). The crash data was obtained from the Georgia Electronic Accident Report System (GEARS) for the period between January 1, 2014 and December 31, 2023.

A summary of the results of the analysis is as follows. *All number of crashes indicated are for the total of the ten year period (2014 – 2023) unless explicitly stated otherwise.*

1. There were a total of 616 reported crashes along the segment of Lower Roswell Road between Woodlawn Drive and Davidson Road within the ten (10) year period (2014 – 2023). Approximately 19% (114 out of 616) of these crashes resulted in an injury to motorists. There were no reported fatal crashes.
2. The majority of the crashes were reported at one of the three major intersections along Lower Roswell Road:
  - a. 115 crashes were reported at the Woodlawn Drive intersection
  - b. 363 crashes were reported at the Johnson Ferry Road intersection
  - c. 44 crashes were reported at the Davidson Road intersection
3. 37 crashes were reported along the **west segment** of Lower Roswell Road between Woodlawn Drive and Johnson Ferry Road (not inclusive of the crashes at either intersection).
4. 57 crashes were reported along the **east segment** of Lower Roswell Road between Johnson Ferry Road and Davidson Road (not inclusive of the crashes at either

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intersection). **Approximately 47% (27 out of 57) of these crashes are correctable by the installation of a raised median.**

5. The crash incidence along the overall corridor (segment of Lower Roswell Road between Woodlawn Drive and Davidson Road) showed a **40% reduction** in recent years from approximately 70 crashes per year for the seven (7) year period of 2013 – 2020 to approximately 43 crashes per year for the recent three (3) year period of 2021 – 2023.
6. A similar reduction was also observed in injury crashes along the overall corridor where a **20% reduction** in recent years from approximately 12 injury crashes per year for the seven (7) year period of 2013 – 2020 to approximately 10 injury crashes per year for the recent three (3) year period of 2021 – 2023.
7. However, the crash trends indicated a **rising trend in the east segment** of Lower Roswell Road; which showed a **20% increase** in recent years from approximately 5 crashes per year for the seven (7) year period of 2013 – 2020 to approximately 6 crashes per year for the recent three (3) year period of 2021 – 2023 and a **100% increase** in injury crashes in recent years from approximately 1 injury crash per year for the seven (7) year period of 2013 – 2020 to approximately 2 injury crashes per year for the recent three (3) year period of 2021 – 2023.

*Table 1. Summary of Crash History for the Overall Corridor Segment along Lower Roswell Road between Woodlawn Drive and Davidson Road*

Year	Total # of Crashes	Total # of Injury Crashes
2014	73	9
2015	70	16
2016	85	15
2017	84	14
2018	76	10
2019	67	12
2020	33	9
2021	41	7
2022	42	10
2023	45	12
Total	616	114
Average of first 7 years	70	12
Average of recent 3 years	43	10



Table 2. Summary of Crash History at the Three Major Intersections along Lower Roswell Road

Year	Crashes at Woodlawn Drive	Crashes at Johnson Ferry Road	Crashes at Davidson Road
2014	17	40	6
2015	17	37	6
2016	12	51	7
2017	16	51	7
2018	14	51	6
2019	13	38	8
2020	5	25	0
2021	6	26	1
2022	7	24	2
2023	8	20	1
Total	115	363	44
Average of first 7 years	13	42	6
Average of recent 3 years	7	23	1

Table 3. Summary of non-intersection related Crash History along Lower Roswell Road<sup>1</sup>

Year	Crashes Between Woodlawn Drive and Johnson Ferry Road	Crashes Between Johnson Ferry Road and Davidson Road
2014	5	5
2015	5	5
2016	3	12
2017	4	6
2018	3	2
2019	1	7
2020	2	1
2021	4	4
2022	6	3
2023	4	12
Total	37	57
Average of first 7 years	3	5
Average of recent 3 years	5	6

<sup>1</sup> Excludes crashes at intersections of Lower Roswell Road with Woodlawn Drive, Johnson Ferry Road, & Davidson Road



Table 4. Summary of correctable along Lower Roswell Road between Johnson Ferry Road and Davidson Road<sup>2</sup>

Year	Correctable Crashes Between Johnson Ferry Road and Davidson Road
2014	2
2015	2
2016	7
2017	4
2018	1
2019	2
2020	1
2021	2
2022	1
2023	5
Total	27
Average of first 7 years	3
Average of recent 3 years	3

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<sup>2</sup> These include crashes that are correctable by the installation of a raised median with directional median openings, i.e. head-on crashes, opposite direction side-swipe crashes and angle crashes involving vehicles making a left-out maneuver from side streets/driveways into Lower Roswell Road.