CHAPTER 6.7: CITY OF WOODWAY

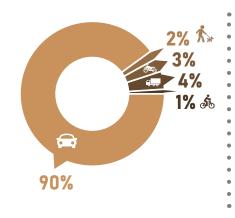
INTRODUCTION

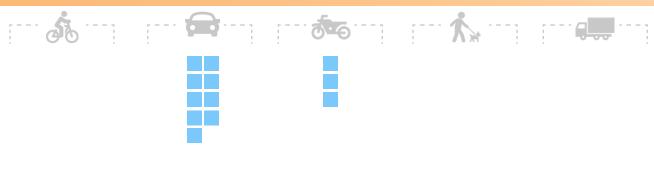
Woodway, located southwest of Waco, is a city in central McLennan County. US-84 runs through Woodway. The city has an estimated population of 9,383 according to the 2020 census. This chapter provides information on the City of Woodway's collision statistics from 2014 to 2023. A total of 96 collisions occurred on Woodway streets in the last 10 years, including zero fatalities and 12 serious injuries. TxDOT roadways within Woodway city limits had 113 collisions during the same period, with four fatal injuries and nine serious injuries. On city-maintained roads, possible injuries accounted for the 50 percent of injury collisions. However, on roads maintained by TxDOT, the most common injury type is minor injury, representing 49 percent of injury collisions within their rights-of-way.

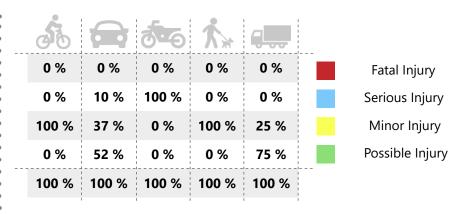
COLLISIONS 2014 TO 2023	C	ITY	TxI	ООТ
Total Collisions	96	100 %	113	100 %
Fatal Injury	0	0.00 %	4	3.54 %
Serious Injury	12	12.50 %	9	7.96 %
Minor Injury	36	37.50 %	55	48.67 %
Possible Injury	48	50.00 %	45	39.82 %
Total Persons Involved	119	100 %	152	100 %
Fatal Injury	0	0.00 %	4	2.63 %
Serious Injury	15	12.61 %	10	6.58 %
Minor Injury	45	37.82 %	70	46.05 %
Possible Injury	59	49.58 %	68	44.74 %



COLLISIONS BY MODE - CITY

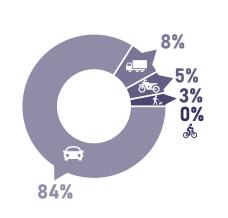


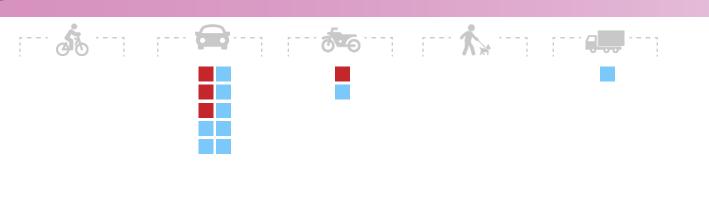




Note: Each box represents one fatal or severe injury collision.

COLLISIONS BY MODE - TxDOT





90		5 0	1			
 0 %	3 %	17 %	0 %	0 %		Fatal Injury
0 %	7 %	17 %	0 %	11 %		Serious Injury
0 %	46 %	67 %	100 %	44 %		Minor Injury
0 %	43 %	0 %	0 %	44 %		Possible Injury
 0 %	100 %	100 %	100 %	100 %		
	1				i .	

Note: Each box represents one fatal or severe injury collision.

2024 WACO MPO SAFETY ACTION PLAN

The following summary provides information on the number of collisions, persons injured, and the proportion of persons involved in collisions based on mode of transportation, age group, and gender. It also draws comparisons between collisions on Woodway's city streets, TxDOT facilities, and McLennan County across various categories.

On Woodway city streets, there were a total of 96 collisions that resulted in 119 persons injured. In comparison, TxDOT reported a total of 113 collisions resulting in 152 persons injured within Woodway city limits.

This section also identifies several major collision trends on Woodway city streets, including broadside collisions, hit object collisions, right-of-way violations by automobiles, and unsafe speed violations. On TxDOT roadways, the prominent trends were broadside collisions, rear-end collisions, unsafe speed violations, and right-of-way violations by automobiles. A detailed summary analyzing these collision trends is provided in the collision profile section of this chapter.

The pie charts below compare the severity of collisions on roadways with different speed limits. Of the speed limits examined, the charts indicate that roads with a 60 mph speed limit accounted for the highest proportion of KSI collisions.

CITY TxDOT 96 113

TOTAL COLLISIONS : TOTAL COLLISIONS

119 152

TOTAL PERSONS INJURED : TOTAL PERSONS INJURED

PERSONS INVOLVED								
	CITY				TxDOT			
			M	ODE				
Bicycle	0 %	0 %	1 %	0 %	0 %	0 %	0 %	0 %
Car	0 %	10 %	35 %	49 %	2 %	6 %	41 %	45 %
Motorcycle	0 %	3 %	0 %	0 %	1 %	1 %	3 %	0 %
Pedestrian	0 %	0 %	2 %	0 %	0 %	0 %	2 %	0 %
Truck	0 %	0 %	0 %	1 %	0 %	0 %	1 %	0 %
			1	AGE				
Below 15	0 %	1 %	3 %	3 %	0 %	0 %	1 %	1 %
15 - 65	0 %	11 %	29 %	35 %	1 %	6 %	39 %	33 %
Above 65	0 %	1 %	6 %	11 %	1 %	1 %	5 %	10 %
GENDER								
Male	0 %	8 %	17 %	17 %	2 %	5 %	24 %	17 %
Female	0 %	5 %	21 %	33 %	1 %	2 %	22 %	28 %
Female	0 %	5 %	21 %	33 %	1 %	2 %	22 %	28 %

The following summary provides information on the number of collisions, per- CITY OF WOODWAY VS. McLENNAN COUNTY COLLISIONS - RELATIVE SHARES

CITY		TxDOT		McLENNAN COUNTY	
		MODE			
Bicycle	1 %	Bicycle	0 %	Bicycle	1 %
Car	90 %	Car	84 %	Car	85 %
Motorcycle	3 %	Motorcycle	5 %	Motorcycle	4 %
Pedestrian	2 %	Pedestrian	3 %	Pedestrian	3 %
Truck	4 %	Truck	8 %	Truck	7 %
		FIRST HARMFUL EVEN	NT		
Motor Vehicle in Transport	64 %	Motor Vehicle in Transport	79 %	Motor Vehicle in Transport	72 %
Fixed Object	27 %	Fixed Object	11 %	Fixed Object	17 %
Parked Car	4 %	Overturned	7 %	Overturned	4 %
		MANNER OF COLLISI	ON		
Hit Object	36 %	Rear End	47 %	Broadside	42 %
Broadside	32 %	Broadside	24 %	Hit Object	28 %
Rear End	22 %	Hit Object	21 %	Rear End	24 %
Sideswipe	6 %	Sideswipe	6 %	Sideswipe	5 %
		VIOLATION CATEGO	RY		
Distracted Driving	25 %	Distracted Driving	32 %	Unsafe Speed	23 %
Automobile Right-of-Way	17 %	Unsafe Speed	17 %	Automobile Right-of-Way	22 %
Traffic Signals and Signs	15 %	Traffic Signals and Signs	11 %	Traffic Signals and Signs	12 %
Unsafe Speed	8 %	Automobile Right-of-Way	7 %	Distracted Driving	8 %
Other Unforeseen Reasons	8 %	Other Unforeseen Reasons	6 %	Other Improper Driving	6 %
Driver Condition	7 %	Other Improper Driving	4 %	Other Unforeseen Reasons	6 %
		LOCATION			
Intersection	61 %	Intersection	42 %	Intersection	59 %
Roadway	39 %	Roadway	58 %	Roadway	41 %
		LIGHTING			
Daylight	76 %	Daylight	74 %	Daylight	70 %
Dark, Lighted	11 %	Dark, Not Lighted	13 %	Dark, Lighted	16 %
Dark, Not Lighted	8 %	Dark, Lighted	6 %	Dark, Not Lighted	11 %

SPEED LIMIT





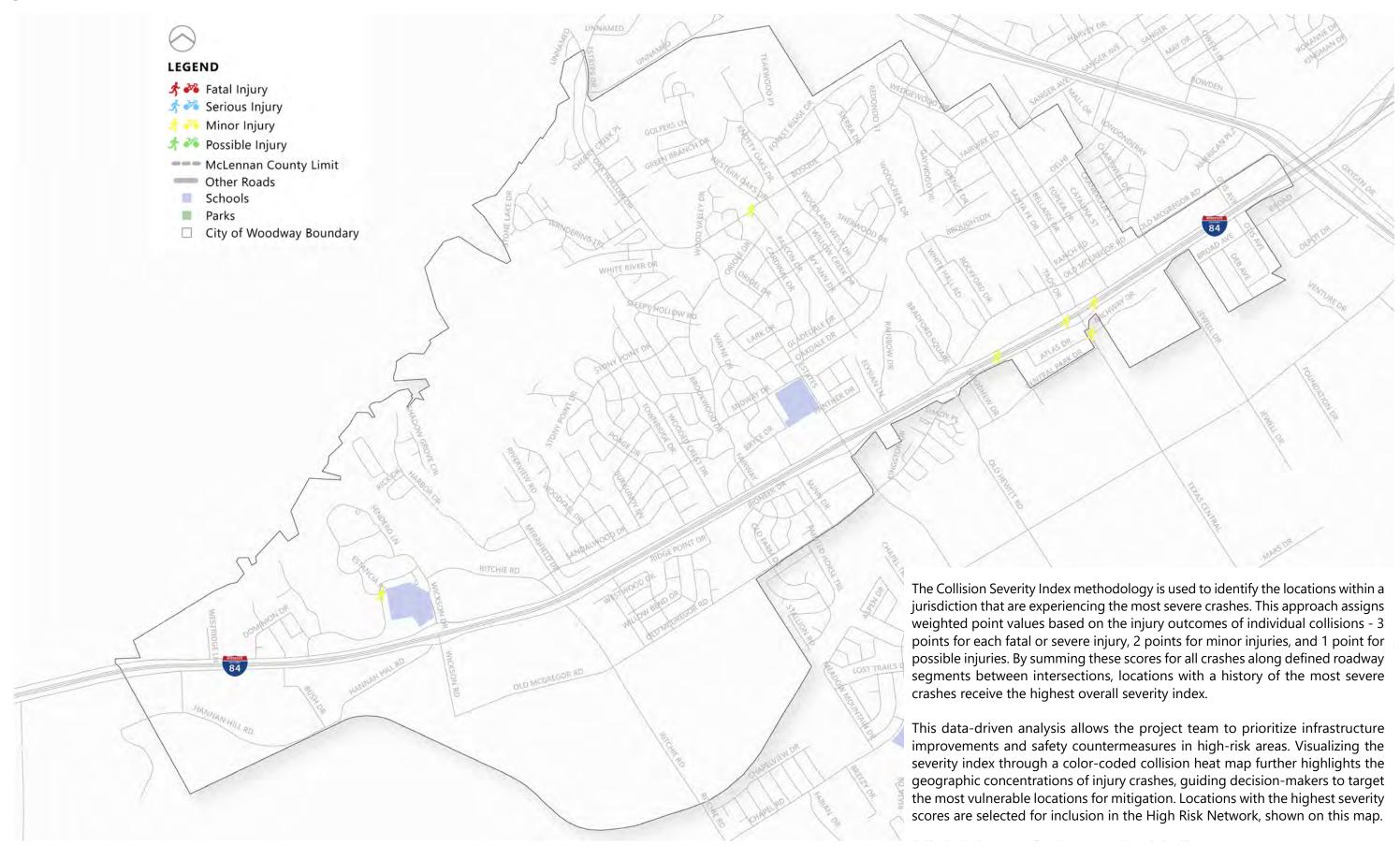




BICYCLE & PEDESTRIAN COLLISION BY SEVERITY



SEVERITY INDEX

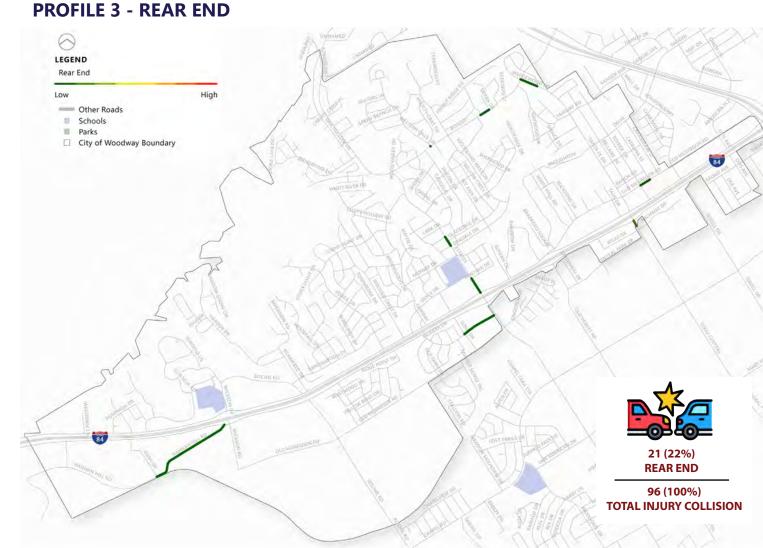


ROADWAYS & INTERSECTIONS 2024 WACO MPO SAFETY ACTION PLAN



PROFILES - CITY PROFILE 1 - HIT OBJECT PROFILE 2 - BROADSIDE LEGEND LEGEND Hit Object Broadside Low Low Other Roads Other Roads ■ Schools Schools Parks ☐ City of Woodway Boundary ☐ City of Woodway Boundary 35 (36%) **HIT OBJECT BROADSIDE** 96 (100%) 96 (100%) **TOTAL INJURY COLLISION TOTAL INJURY COLLISION** 31 COLLISIONS 35 COLLISIONS • **SEVERITY SEVERITY** 83 % 97 % **BY MODE** BY MODE 0 % CAR CAR 31 % LOCATION CONTRIBUTING CONTRIBUTING LOCATION 20 % 17% 17% 45 % 39 % 14 % **FACTOR FACTOR** DRIVER CONDITION DISTRACTED 20 % 80 % OTHER DRIVING UNDER UNSAFE SPEED AUTOMOBILE RIGHT-OF-WAY TRAFFIC SIGNALS AND SIGNS DRIVING UNFORESEEN INFLUENCE LIGHTING LIGHTING **HARMFUL HARMFUL** 74 % 11% 100 % **EVENT EVENT** FIXED OBJECT MOTOR VEHICLE IN TRANSPORT PARKED CAR 0 % 0 % 25 % 50 % 75 % 100 % 25 % 50 % 75 % 100 %

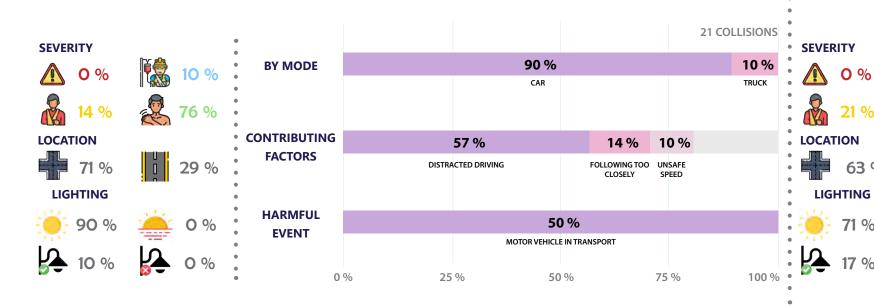
PROFILES - CITY

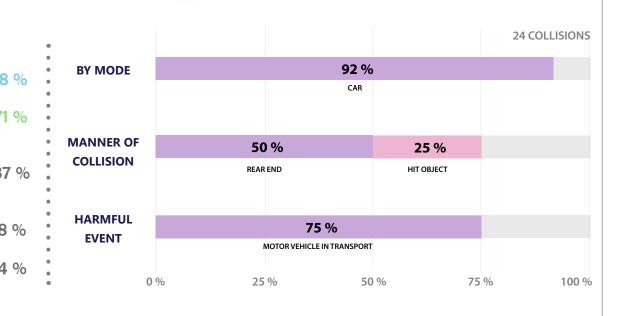


LEGEND Distracted Driving Low Other Roads Schools ☐ City of Woodway Boundary 24 (25%) **DISTRACTED DRIVING** 96 (100%) **TOTAL INJURY COLLISION**

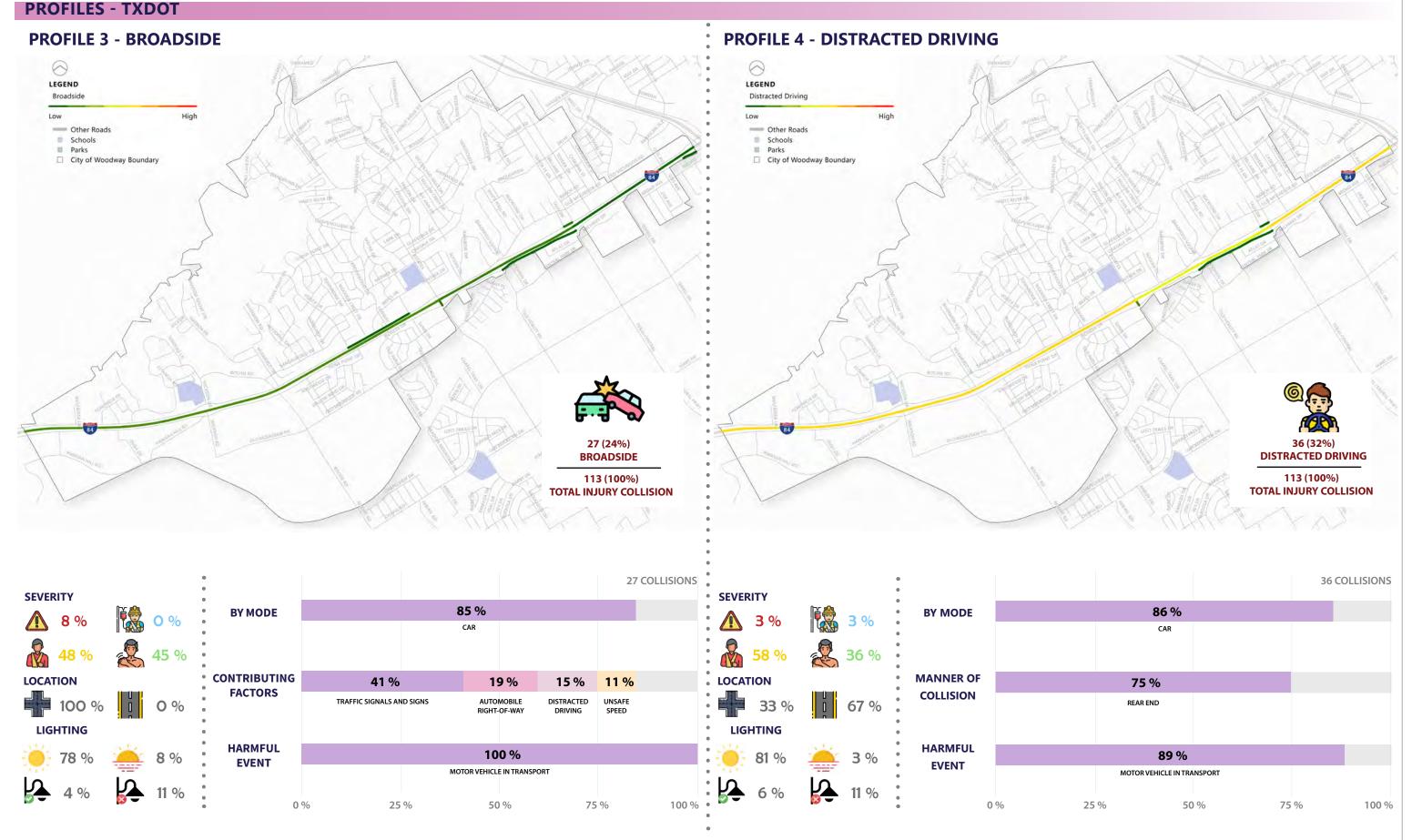
PROFILE 4 - DISTRACTED DRIVING

63 %





PROFILES - TXDOT PROFILE 2 - HIT OBJECT PROFILE 1 - REAR END LEGEND LEGEND Rear End Hit Object Low Other Roads Other Roads Schools Schools ☐ City of Woodway Boundary ☐ City of Woodway Boundary 53 (47%) **HIT OBJECT REAR END** 113 (100%) 113 (100%) **TOTAL INJURY COLLISION TOTAL INJURY COLLISION** 53 COLLISIONS . 24 COLLISIONS **SEVERITY SEVERITY** 87 % **75** % BY MODE BY MODE 0 % CAR CAR LOCATION **CONTRIBUTING** CONTRIBUTING • LOCATION 51% 21 % 9 % 25 % 17% **FACTOR FACTOR** 30 % UNSAFE SPEED FOLLOWING TOO CLOSELY OTHER UNFORESEEN REASONS DISTRACTED **70** % DISTRACTED DRIVING DRIVING UNDER DRIVER UNSAFE CONDITION SPEED LIGHTING LIGHTING **HARMFUL HARMFUL** 100% 50% 33 % **EVENT EVENT** MOTOR VEHICLE IN TRANSPORT FIXED OBJECT OVERTURNED 0 % 25 % 75 % 100 % • 0 % 50 % 50 % 25 % 75 % 100 %



NEIGHBORHOOD TRAFFIC CALMING PROGRAM

Residential streets in Woodway would benefit from a Neighborhood Traffic Calming Project due to cut-through traffic and speeding issues. A neighborhood traffic calming program typically involves initiatives aimed at reducing traffic speed and improving safety on residential streets. These programs often include measures such as speed humps, traffic circles, chicanes, curb extensions, and signage to encourage drivers to slow down and be more cautious in residential areas. The program also involves community engagement and input to identify specific traffic issues and develop appropriate solutions tailored to the neighborhood's needs. Overall, the goal of a neighborhood traffic calming program is to create safer and more livable streets for residents and pedestrians.

ACTIVE TRANSPORTATION PLAN

The City of Woodway should consider implementing an Active Transportation Plan (ATP) to promote increased walking, biking, and the use of other non-motorized transportation modes. This comprehensive plan would delineate strategies, policies, and infrastructure enhancements aimed at fostering safer and more accessible environments for pedestrians and cyclists within the city.

The ATP would entail an evaluation of existing multi-modal infrastructure improvements and safety measures, while also identifying gaps and deficiencies in infrastructure such as sidewalks and bike lanes. Additionally, the plan would focus on raising awareness about the benefits of walking and cycling, as well as educating the community about road safety and the importance of sharing the road with other users.

Furthermore, the ATP would involve the implementation of policies and regulations to support active transportation, including the adoption of Complete Streets policies, zoning regulations prioritizing pedestrian and cyclist safety, and incentives for developers to incorporate active transportation infrastructure into new developments.

Moreover, the ATP would provide an opportunity to integrate with public transit systems by ensuring seamless connectivity between walking, cycling, and public transit networks. By fostering a more pedestrian and cyclist-friendly environment, the ATP would aim to promote healthier lifestyles, reduce traffic congestion, and create more vibrant and livable communities in Woodway.

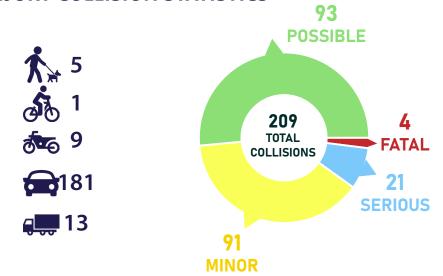


2024 WACO MPO SAFETY ACTION PLAN

PROJECT 1: CITYWIDE SIGN INVENTORY 2024 WACO MPO SAFETY ACTION PLAN

The City of Woodway is proposing a Citywide Sign Inventory and Pavement Delineation project to improve roadway safety and navigation for drivers. The proposed initiative would commence with a thorough assessment of all existing traffic signs throughout the city to identify any that are damaged, faded, obstructed, or non-compliant with current regulations regarding reflectivity. Such signs would be replaced as necessary to ensure clear visibility during both day and night. Additionally, the project would encompass surveying all road markings, including lane lines, turn arrows, crosswalks, and other pavement delineations across the city.

INJURY COLLISION STATISTICS



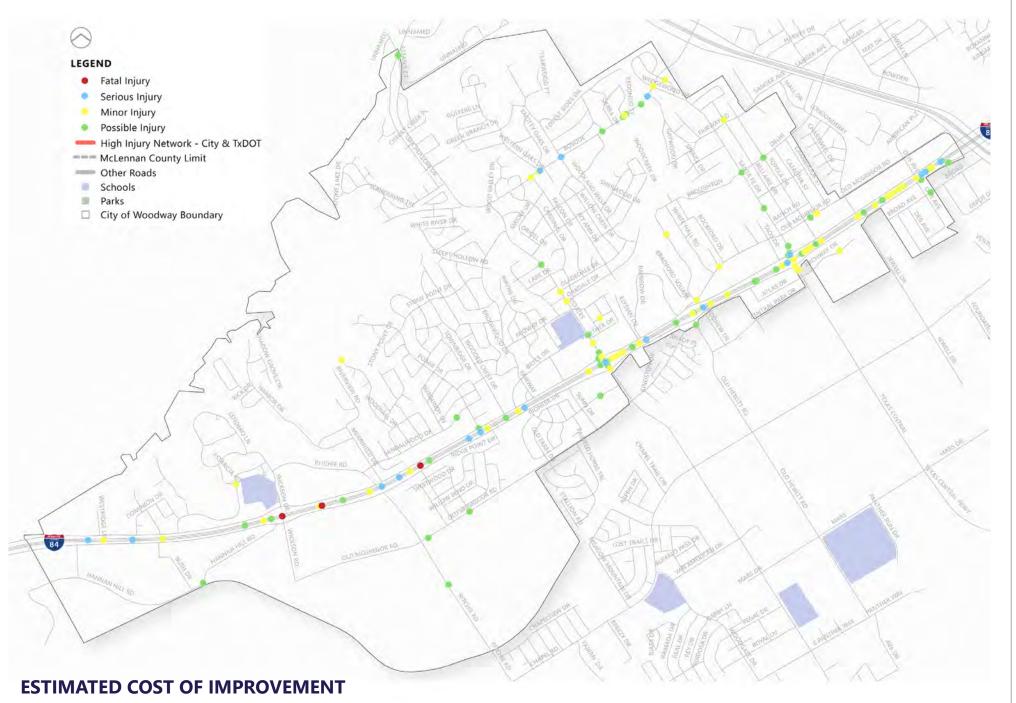
TRENDS







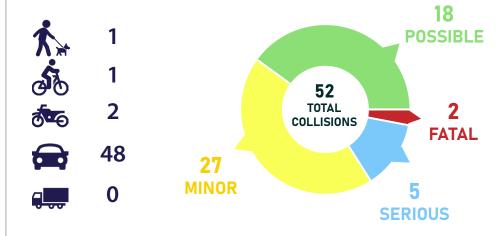




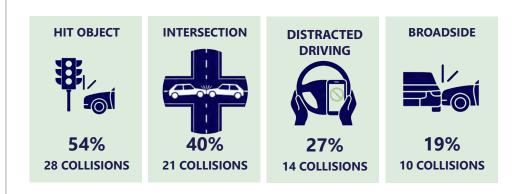
_	IMPROVEMENTS	LIMIT	ESTIMATED COST
\$	Sign Inventory, Replacement & Installation	Citywide	\$758,400
林	Citywide Pavement Delineation	Citywide	\$4,368,300
		CONTINGENCY COST	\$1,025,400
		ENGINEERING COST	\$1,538,100
		TOTAL COST	\$7,690,200

The City of Woodway is proposing a Citywide Streetlight Inventory and Replacement initiative designed to improve nighttime visibility and safety for motorists, cyclists, and pedestrians. This project involves conducting a comprehensive inventory of all current streetlights across the city to identify missing streetlights, update outdated inventories, generate reports for non-functioning fixtures, and identify types of lights. Subsequently, outdated, damaged, or inadequately illuminating lights will be replaced with new LED streetlights. It is expected that the enhanced lighting will reduce injury crashes and enhance safety for both residents and visitors navigating Woodway's streets during nighttime hours.

NIGHTTIME INJURY COLLISION STATISTICS



TRENDS





IMPROVEMENTS	LIMIT	ESTIMATED COST
Citywide Street Light Inventory	Citywide	\$7,015,000
	CONTINGENCY COST	\$1,403,000
	ENGINEERING COST	\$2,946,300
	TOTAL COST	\$11,364,300



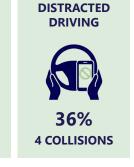
Estates Drive, a four-lane minor arterial with a center two-way left turn lane, provides direct access to Woodway Elementary School. The posted speed limit is 30 mph on this section of Estates Drive. The City has previously considered improvements along this segment. This project provides the highest safety and connectivity benefits to the City by meaningfully extending multimodal improvements on Estates Drive to benefit the Elementary School.

INJURY COLLISION STATISTICS



TRENDS





EXISTING CONDITIONS



Existing Condition: Estates Dr at Jordan Lane facing north

Existing Condition: Estates Dr at Midway Dr facing south



3: ESTATES DR- CORRIDOR SAFETY IMPROVEMENTS					
	IMPROVEMENTS	LOCATIONS	ESTIMATED COST		
*	Fill Sidewalk Gaps		\$328,500		
780	Speed Feedback Sign	From Midway Dr to US-84	\$17,300		
i i	Install Bike Lane		\$43,100		
		CONTINGENCY COST	\$77,800		
		ENGINEERING COST	\$163,400		
		TOTAL COST	\$630,100		

ARLISS DR RIO VISIA DR SIERRA DR FOREST RIDGE DR Mosswood dr WOODLAND WEST DR RAVIEN DR WESTERN OAKS D IVY ANN DR FALCON DR CARDINAL DR ORIOLEDR ESTATES DR ESTATES DR Minor Injury Possible Injury Fatal Injury Serious Injury

Bosque Boulevard, a four-lane minor arterial, provides access to surrounding residential neighborhoods. The speed limit is set at 30 mph throughout the corridor. Bosque Boulevard has the highest 2022 AADT (8,594) in Woodway among local streets.

INJURY COLLISION STATISTICS



TRENDS





31%

NIGHTTIME

9 COLLISIONS

38% **5 COLLISIONS 5 COLLISIONS** **4 COLLISIONS**

EXISTING CONDITIONS



Existing Condition:

Bosque Blvd at Sugar Creek Place facing west

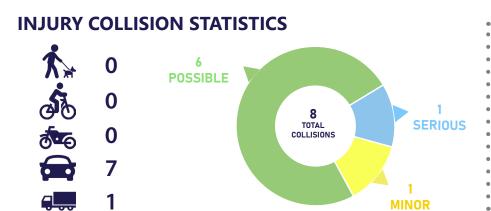


Existing Condition: Bosque Blvd at Cardinal Dr facing east

4: BOSQUE BLVD- CORRIDOR SAFETY IMPROVEMENTS					
	IMPROVEMENTS	LOCATIONS	ESTIMATED COST		
26	Install Speed Feedback Sign	Phase 1: From Southwood Dr to Estates Dr	\$34,500		
	Minor Streets Sign and Striping Improvements	Thase 1. Trom southwood by to Estates by	\$27,700		
	Install Roundabout	Dhaca 1: Pasqua Plud & Estatos Dr	\$460,000		
**	Pedestrian Connectivity Improvements	Phase 1: Bosque Blvd & Estates Dr	\$65,600		
	Road Diet	Phase 2: From Southwood Dr to Estates Dr	\$164,300		
		CONTINGENCY COST	\$150,500		
		ENGINEERING COST	\$316,000		
	TOTAL COST \$1,218,600				

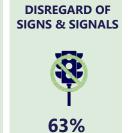


Santa Fe Drive, a two-lane minor arterial with a bike lane on south side of the roadway, provides access to surrounding residential neighborhoods. The speed limit is set at 30 mph.



TRENDS





5 COLLISIONS



EXISTING CONDITIONS



Existing Condition:Santa Fe Dr at Delhi Rd facing north

Existing Condition:Santa Fe Dr at Ranch Rd facing south



5: SANTA FE DR- CORRIDOR SAFETY IMPROVEMENTS				
	IMPROVEMENTS	LOCATIONS	ESTIMATED COST	
	Install Striping		\$16,400	
	Minor Streets Improvements	From Fairway Rd to Woodway Dr	\$15,600	
**	Install Bike Lane (NB)		\$20,500	
		CONTINGENCY COST	\$10,500	
		ENGINEERING COST	\$22,100	
		TOTAL COST	\$85,100	

2024 WACO MPO SAFETY ACTION PLAN



The intersection of Ritchie Road and Old McGregor Road is an all way stop controlled skewed-intersection. The speed limit approaching this intersection is 30 mph. Currently the intersection has an off-set geometry posing a safety challenge for drivers. Non-injury collisions have been reported at this intersection.

EXISTING CONDITIONS



Existing Condition: Old McGregor Rd at Ritchie Rd facing east



Existing Condition: Ritchie Rd at Old McGregor Rd facing north

6: RITCHIE RD AND OLD MCGREGOR RD – INTERSECTION SAFETY IMPROVEMENTS					
_	IMPROVEMENTS	LOCATIONS	ESTIMATED COST		
	Clear Sight Triangles		\$5,800		
	Install Curb		\$15,000		
	Sign Upgrade	Ritchie Rd and Old McGregor Rd	\$3,700		
	Reduce Corner Radius		\$34,500		
	Upgrade Striping and Pavement Marking		\$1,700		
		CONTINGENCY COST	\$12,200		
		ENGINEERING COST	\$25,600		
		TOTAL COST	\$98,500		