CHAPTER 6.3: CITY OF LACY LAKEVIEW

INTRODUCTION

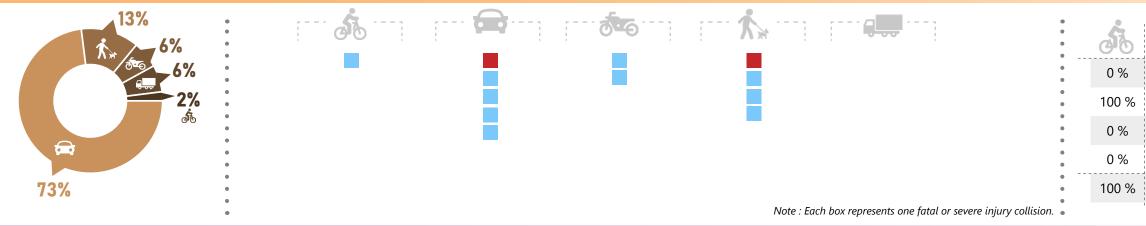
Lacy Lakeview, located north of Waco, is a city in central McLennan County. Both I-35 and US-84 run through Lacy Lakeview. The city has an estimated population of 6,988 according to the 2020 census. This chapter provides information on the City of Lacy Lakeview's collision statistics from 2014 to 2023. A total of 62 collisions occurred on Lacy Lakeview streets in the last 10 years, including two fatalities and 10 serious injuries. TxDOT roadways within Lacy Lakeview city limits had 396 collisions during the same period, with eight fatal injuries and 62 serious injuries. On city-maintained roads, minor injuries accounted for approximately 44 percent of injury collisions on city-maintained roads, whereas possible injuries were the most commonly reported (43 percent) on roads maintained by TxDOT.

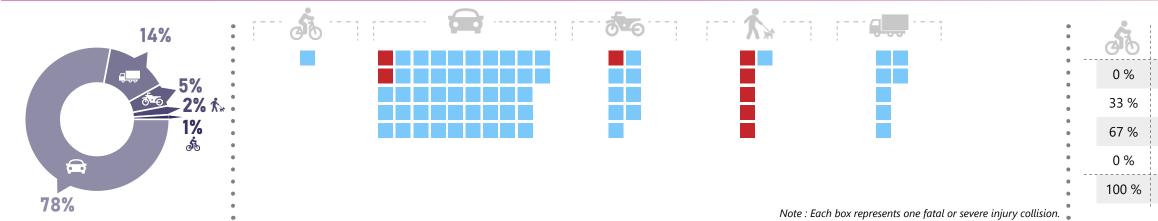
COLLISIONS 2014 TO 2023	c	ΙΤΥ	TxDOT	
Total Collisions	62	100 %	396	100 %
Fatal Injury	2	3.23 %	8	2.02 %
Serious Injury	10	16.13 %	62	15.66 %
Minor Injury	27	43.55 %	155	39.14 %
Possible Injury	23	37.10 %	171	43.18 %
Total Persons Involved	82	100 %	577	100 %
Fatal Injury	2	2.44 %	8	1.39 %
Serious Injury	13	15.85 %	70	12.13 %
Minor Injury	36	43.90 %	232	40.21 %
Possible Injury	31	37.80 %	267	46.27 %



COLLISIONS BY MODE - CITY

COLLISIONS BY MODE - TXDOT





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	1 1 1 1		* *	5-6	
Fatal Injury		0 %	13 %	0 %	2 %
Serious Injury		0 %	38 %	50 %	9 %
Minor Injury		25 %	50 %	50 %	44 %
Possible Injury		75 %	0 %	0 %	44 %
		100 %	100 %	100 %	100 %
		1	1	1	

	50	Ť.	9	
1 %	6 %	50 %	0 %	
15 %	44 %	10 %	13 %	
39 %	39 %	20 %	44 %	
46 %	11 %	20 %	44 %	
100 %	100 %	100 %	100 %	

Fatal Injury Serious Injury Minor Injury Possible Injury

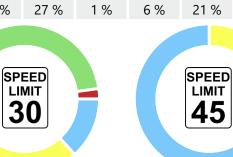
The following summary provides information on the number of collisions, persons injured, and the proportion of persons involved in collisions based on mode of transportation, age group, and gender. It also draws comparisions between collisions on Lacy Lakeview city streets, TxDOT facilities, and McLennan County across various categories. On Lacy Lakeview city streets, there were a total of 62 collisions, resulting in 82 persons injured. In comparison, TxDOT reported a total of 396 collisions resulting in 577 persons injured within Lacy Lakeview city limits.

This section also identifies several major collision trends on Lacy Lakeview city streets, including hit object collisions, broadside collisions, distracted driving, and nighttime collisions. On TxDOT roadways, the prominent trends were broadside collisions, rear end collisions, right-of-way violations by automobiles, and unsafe speed violations. 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 45 mph speed limit accounted for the highest proportion of severe injury collisions and roads with a 70 mph speed limit accounted for the highest proportion of fatal collisions.

		CI	ry : T	xDOT				
		(62 3	96				
тс	DTAL CO	LLISION	NS T	OTAL (COLLIS	IONS		
				577				
τοται ρ	ERSONS		•		EDCON			
IUIALP	EKSUNS		-		EKSUN		KED	
			NS INV	OLVED		T	OT	
		CI	TY MODE			IXL	ОТ	
			WODE		_	_		
Bicycle	0 %	2 %	0 %	0 %	• 0 %	0 %	0 %	0 %
Car	1 %	7%	35 %	38 %	0 %	10 %	38 %	45 %
Motorcycle	0 %	2 %	2 %	0 %	0 %	2 %	2 %	0 %
Pedestrian	1 %	4 %	5 %	0 %	1 %	0 %	0 %	0 %
Truck	0 %	0 %	1 %	0 %	0 %	1 %	1 %	1 %
			AGE					
Below 15	0 %	1 %	12 %	1 %	0 %	1 %	3 %	5 %
15 - 65	2 %	14 %	27 %	32 %	1 %	10 %	33 %	37 %
Above 65	0 %	0 %	5 %	5 %	0 %	1 %	5 %	4 %
			GENDER					
Male	0 %	13 %	22 %	11 %	1 %	6 %	19 %	16 %
Female	2 %	2 %	22 %	27 %	1%	6 %	21 %	30 %





CITY OF LACY LAKEVIEW VS. MCLENNAN COUNTY COLLISIONS - RELATIVE SHARES

			McLENNAN COUNTY	
	MODE			
2 %	Bicycle	1 %	Bicycle	1 %
73 %	Car	78 %	Car	85 %
6 %	Motorcycle	5 %	Motorcycle	4 %
13 %	Pedestrian	3 %	Pedestrian	3 %
6 %	Truck	14 %	Truck	7 %
	FIRST HARMFUL EVENT			
44 %	Motor Vehicle in Transport	79 %	Motor Vehicle in Transport	72 9
31 %	Fixed Object	13 %	Fixed Object	17 9
13 %	Overturned	4 %	Overturned	4 %
	MANNER OF COLLISION			
56 %	Broadside	44 %	Broadside	42 9
34 %	Rear End	24 %	Hit Object	28 9
6 %	Hit Object	21 %	Rear End	24 9
2 %	Sideswipe	9 %	Sideswipe	5 %
	VIOLATION CATEGORY			
19 %	Automobile Right-of-way	28 %	Unsafe Speed	23 9
13 %	Unsafe Speed	21 %	Automobile Right-of-way	22 9
11 %	Traffic Signals and Signs	9 %	Traffic Signals and Signs	12 9
11 %	Distracted Driving	7 %	Distracted Driving	8 %
10 %	Other Unforeseen Reasons	7 %	Other Improper Driving	6 %
8 %	Unsafe Lane Change	6 %	Other Unforeseen Reasons	6 %
	LOCATION			
50 %	Intersection	56 %	Intersection	59 9
50 %	Roadway	44 %	Roadway	41 9
	LIGHTING			
65 %	Daylight	74 %	Daylight	70 9
24 %	Dark, Lighted	15 %	Dark, Lighted	16 9
	Dark, Not Lighted	9 %	Dark, Not Lighted	11 9
	13 % 6 % 31 % 13 % 56 % 34 % 6 % 2 % 19 % 13 % 11 % 11 % 11 % 10 % 8 %	13 %Pedestrian6 %TruckFIRST HARMFUL EVENT44 %Motor Vehicle in Transport31 %Fixed Object31 %OverturnedMANNER OF COLLISION56 %Broadside34 %Rear End6 %Hit Object2 %SideswipeVIOLATION CATEGORY19 %Automobile Right-of-way13 %Unsafe Speed11 %Traffic Signals and Signs11 %Other Unforeseen Reasons8 %Unsafe Lane ChangeLIGHTING	13 %Pedestrian3 %6 %Truck14 %FIRST HARMFUL EVENT44 %Motor Vehicle in Transport79 %31 %Fixed Object13 %13 %Overturned4 %13 %Overturned4 %MANNER OF COLLISION56 %Broadside44 %34 %Rear End24 %6 %Hit Object21 %2 %Sideswipe9 %19 %Automobile Right-of-way28 %13 %Unsafe Speed21 %11 %Traffic Signals and Signs9 %11 %Other Unforeseen Reasons7 %8 %Unsafe Lane Change6 %50 %Intersection56 %50 %Roadway44 %	13 %Pedestrian3 %Pedestrian6 %Truck14 %TruckIRST HARMFUL EVENT44 %Motor Vehicle in Transport79 %Motor Vehicle in Transport31 %Fixed Object13 %Fixed Object31 %Fixed Object13 %Fixed Object31 %Overturned4 %Overturned13 %Overturned4 %OverturnedMANNER OF COLLISION56 %Broadside44 %Broadside34 %Rear End24 %Hit Object6 %Hit Object21 %Rear End2 %Sideswipe9 %SideswipeVIOLATION CATEGORY19 %Automobile Right-of-way28 %Unsafe Speed13 %Unsafe Speed21 %Automobile Right-of-way11 %Traffic Signals and Signs9 %Traffic Signals and Signs11 %Distracted Driving7 %Distracted Driving10 %Other Unforeseen Reasons7 %Other Unforeseen Reasons10 %Unsafe Lane Change6 %Other Unforeseen Reasons50 %Intersection56 %Intersection50 %Roadway44 %Roadway



BICYCLE & PEDESTRIAN COLLISION BY SEVERITY

The map displays the location of injury collisions involving bicyclists and pedestrians in Lacy Lakeview. In total, there were 22 collisions resulting in injuries to both bicyclists and pedestrians, with six fatalities and six serious injury collisions. All six fatalities involved pedestrians, while two of the six serious injurty collisions involved bicyclists, and four involved pedestrians.

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- 📌 🌌 Fatal Injury
- 📌 🌌 Serious Injury
- 🛧 🎮 Minor Injury
- 🛧 🏜 Possible Injury
- === McLennan County Limit
- Other Roads
- Schools
- Parks
- City of Lacy Lakeview Boundary



84

CITY **OF** LACY LAKEVIEW

SEVERITY INDEX

The Collision Severity Index methodology is used to identify the locations within a jurisdiction that are experiencing the most severe crashes. This approach assigns weighted point values based on the injury outcomes of individual collisions - 3 points for each fatal or severe injury, 2 points for minor injuries, and 1 point for possible injuries. By summing these scores for all crashes along defined roadway segments between intersections, locations with a history of the most severe crashes receive the highest overall severity index.

This data-driven analysis allows the project team to prioritize infrastructure improvements and safety countermeasures in high-risk areas. Visualizing the severity index through a color-coded collision heat map further highlights the geographic concentrations of injury crashes, guiding decision-makers to target the most vulnerable locations for mitigation. Locations with the highest severity scores are selected for inclusion in the High Risk Network, shown on this map.



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Severity Index

- Other Roads
- Schools
 - Parks
- □ City of Lacy Lakeview Boundary

High



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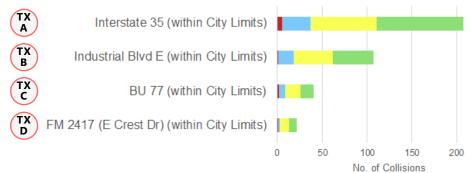
ROADWAYS & INTERSECTIONS

This section lists high risk roadway segments and intersections within Lacy Lakeview city limits. The accompanying graph depicts the name and limits of each roadway along with the number of collisions categorized by severity at that location. A severity index methodology was utilized to identify these high risk spots. This methodology assigns 3 points for each fatal or severe injury collision, 2 points for each minor injury collision, and 1 point for each possible injury collision.

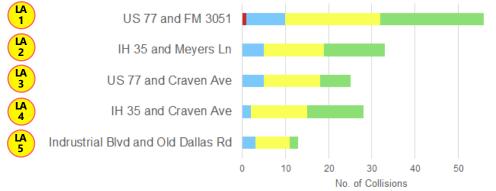
ROADWAYS



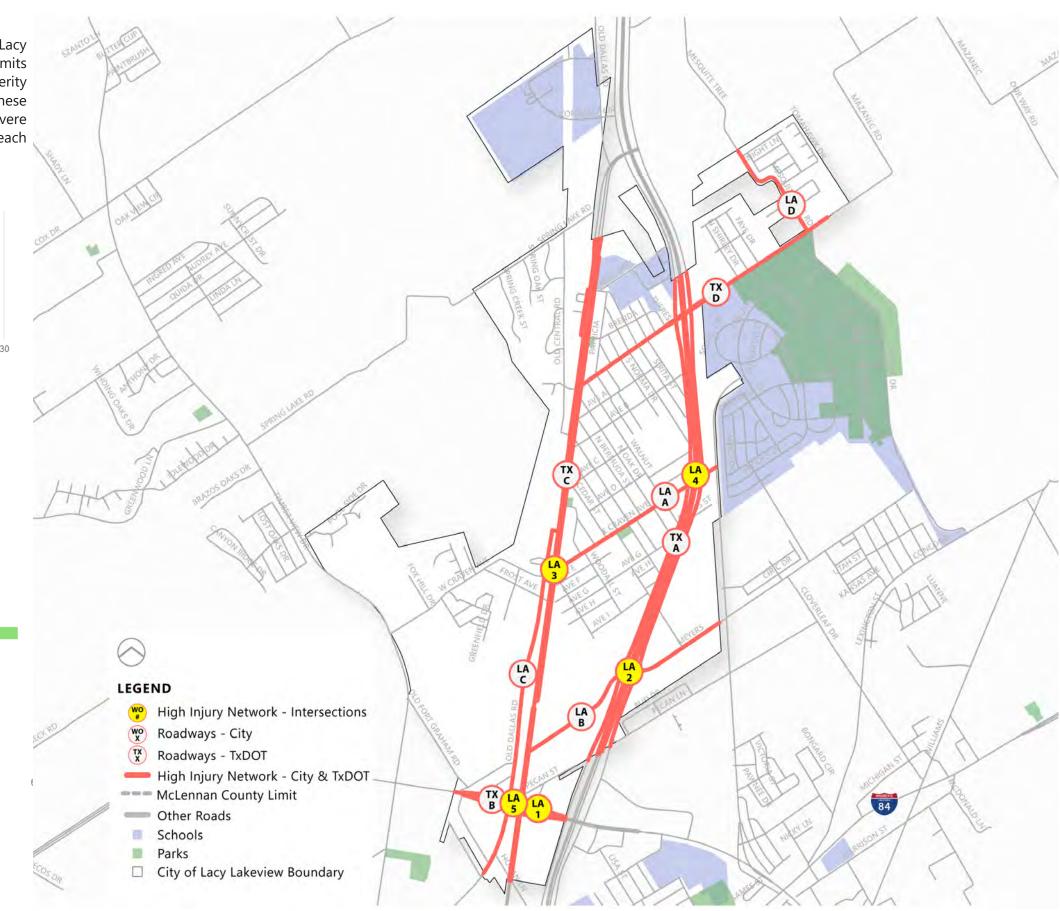
TxDOT ROADWAYS



INTERSECTIONS



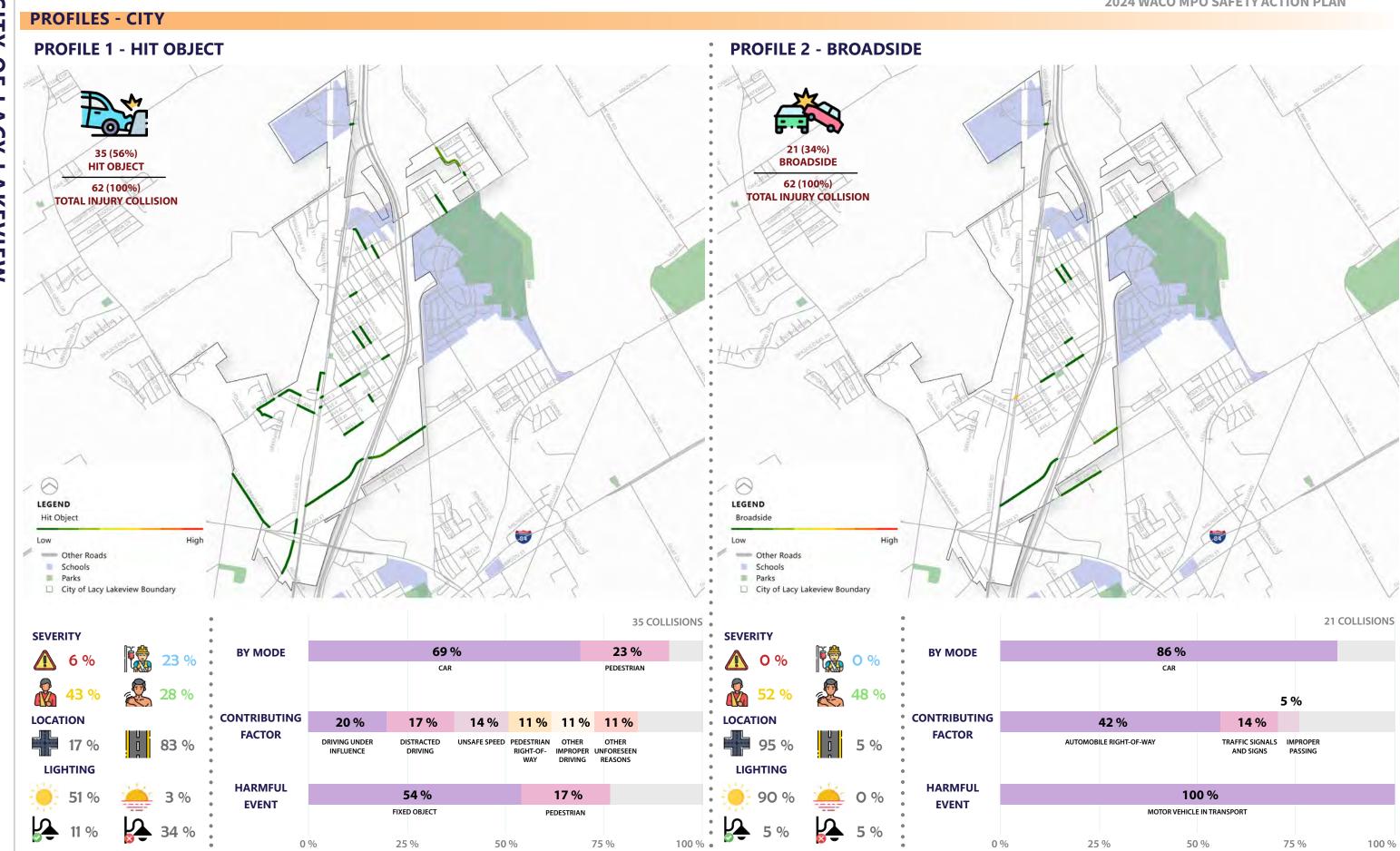
FATAL INJURY SERIOUS INJURY MINOR INJURY POSSIBLE INJURY



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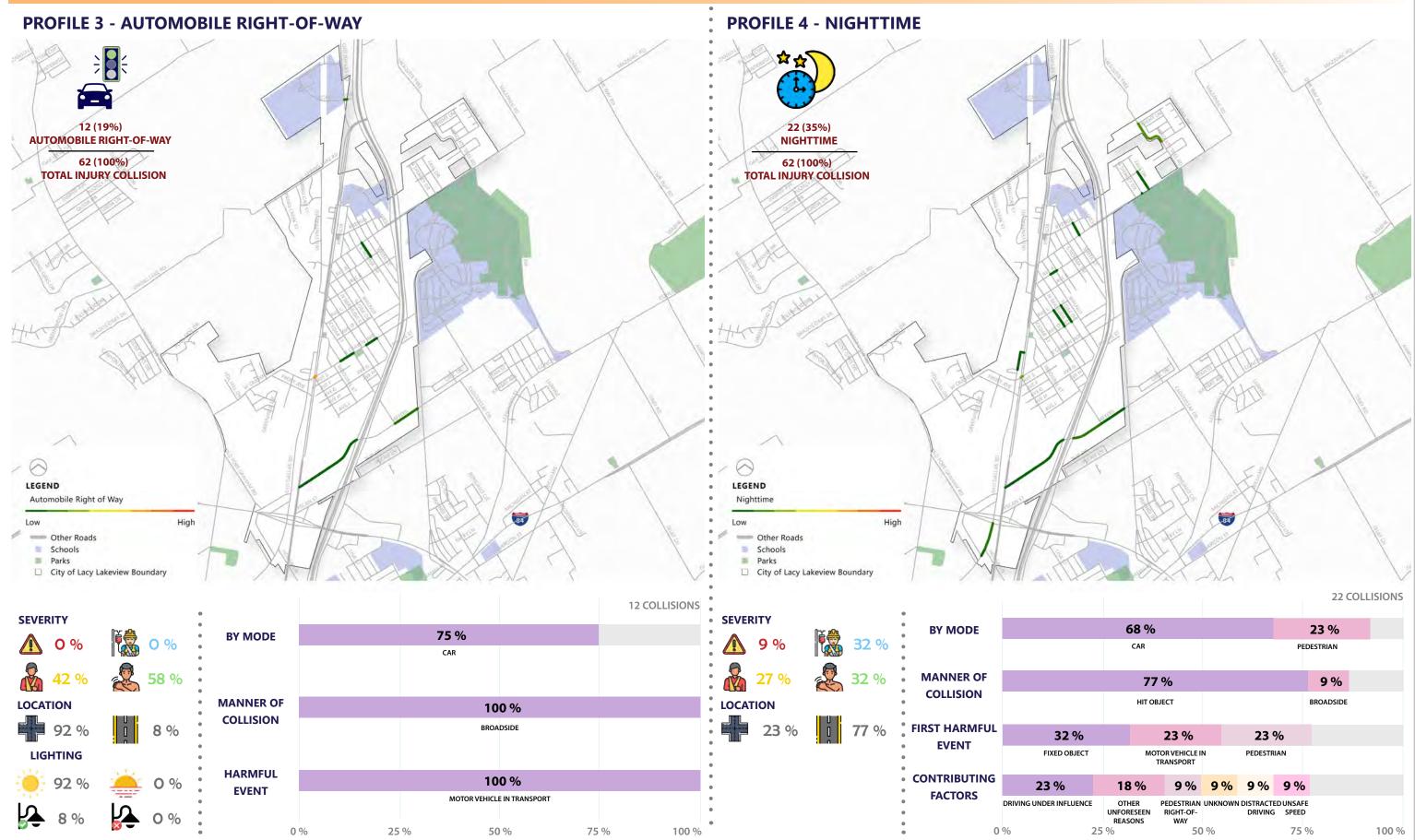
ITY OF LACY LAKEVIEW

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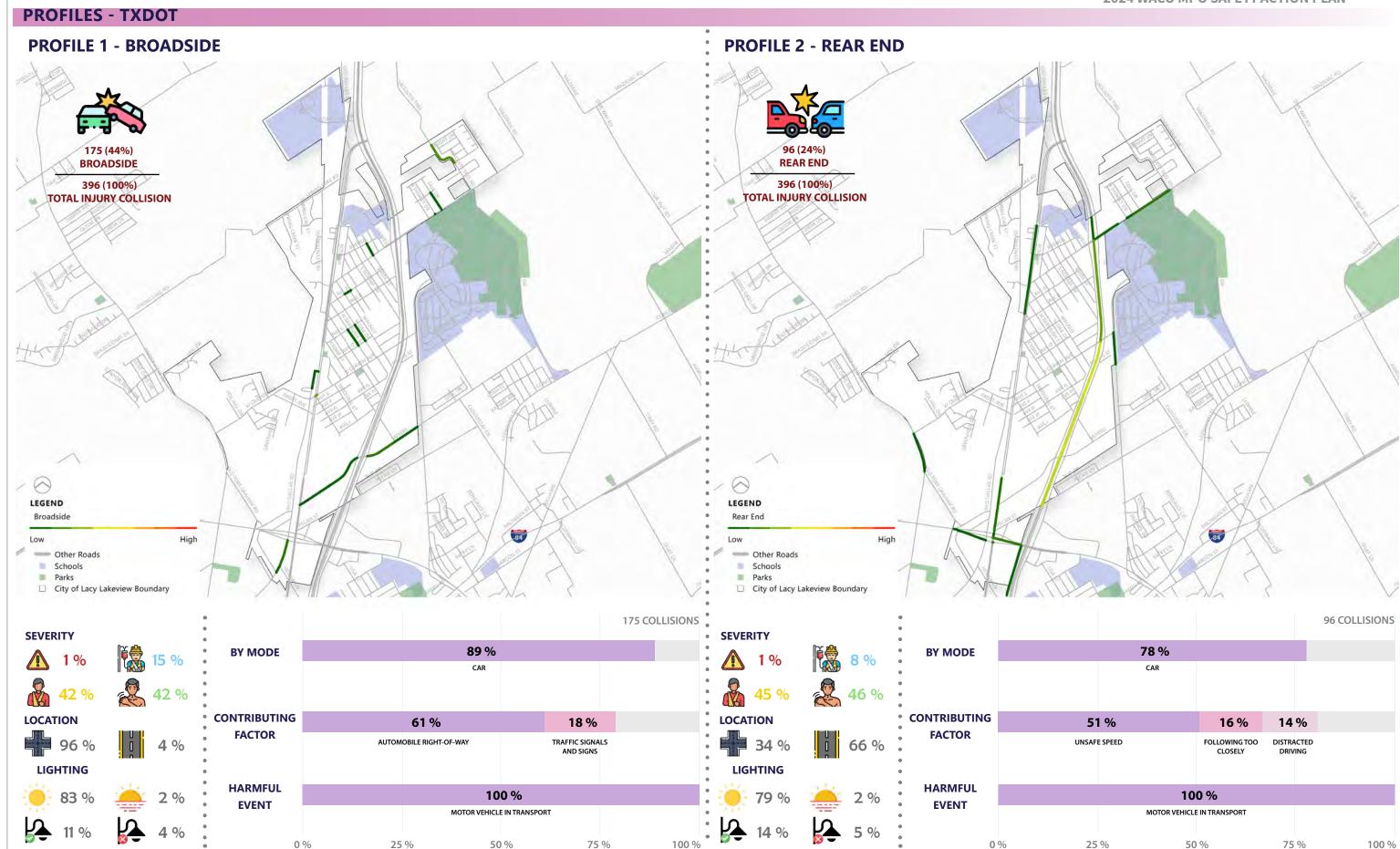
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PROFILES - CITY



2024 WACO MPO SAFETY ACTION PLAN

CITY OF LACY LAKEVIEW

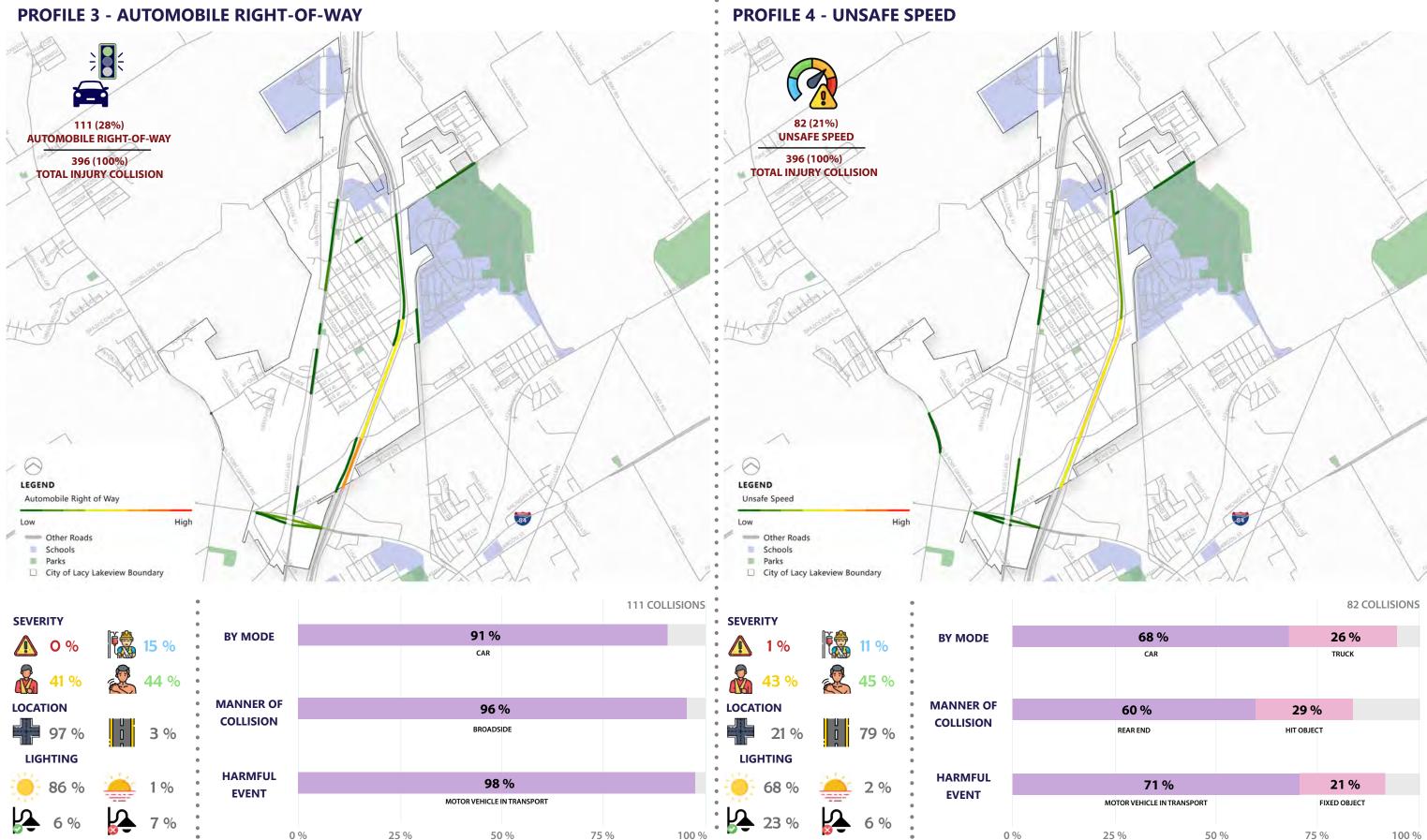


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25 % 50 % 75 % 100 %

PROFILES - TXDOT



2024 WACO MPO SAFETY ACTION PLAN

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SAFE ROUTES TO SCHOOL

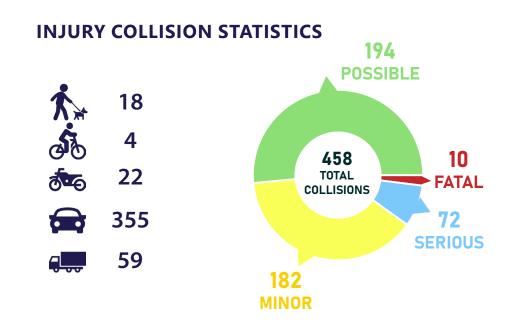
CITY **OF** LACY LAKEVIEW н. PLANNING PROJECTS

The City of Lacy lakeview recognizes the importance of providing safe and accessible transportation options for students traveling to and from local schools. Currently, many neighborhoods lack sufficient pedestrian and bicycle infrastructure to allow children to safely walk or bike to school. This poses safety risks and discourages active transportation, leading to increased vehicle congestion and emissions around school zones. To address these concerns, the city is proposing to conduct a Supplemental Planning Study to evaluate the feasibility of implementing a comprehensive Safe Routes to School program. The study would involve assessing existing conditions, identifying key routes and infrastructure needs, and engaging with the community - including school districts, parents, and students - to develop a strategic plan for improving sidewalks, crosswalks, signage, and other safety enhancements around Lacy Lakeview schools. By investing in this planning effort, the city aims to remove barriers, promote healthy and sustainable transportation choices, and ensure the safety of its youngest residents as they commute to and from their places of learning.



PROJECT 1: CITYWIDE SIGN INVENTORY & PAVEMENT DELINEATION

The City of Lacy Lakeview 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.

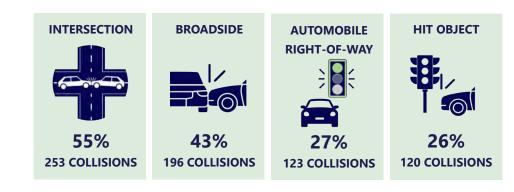




ESTIMATED COST OF IMPROVEMENT

	IMPROVEMENTS	LIMIT	ESTIMATED COS
	Sign Inventory, Replacement & Installation	Citywide	\$407,100
	Citywide Pavement Delineation	Citywide	\$2,211,800
		CONTINGENO	CY COST \$523,800
		ENGINEERIN	IG COST \$785,700
		τοτ	AL COST \$3,928,400

TRENDS



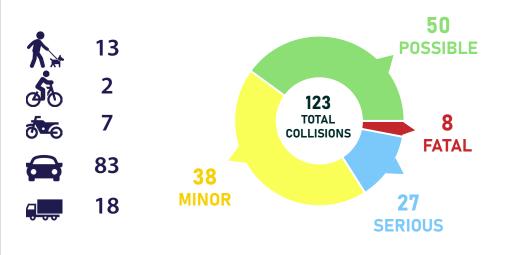
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STIMATED COST
\$407,100
\$2,211,800
\$523,800
\$785,700

PROJECT 2: CITYWIDE STREET LIGHT INVENTORY

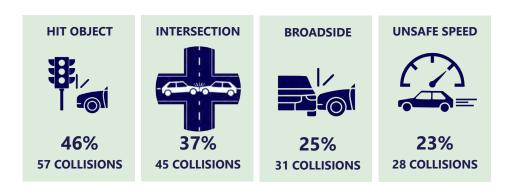
The City of Lacy Lakeview is proposing a Citywide Streetlight Inventory and Replacement initiative designed to improve nighttime visibility and safety for motorists, cyclists, and pedestrians. This project involves conducting a comprehensive inventory of all current streetlights across the city to identify 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 Lacy Lakeview's streets during the nighttime hours.



NIGHTTIME INJURY COLLISION STATISTICS



TRENDS



ESTIMATED COST OF IMPROVEMENT

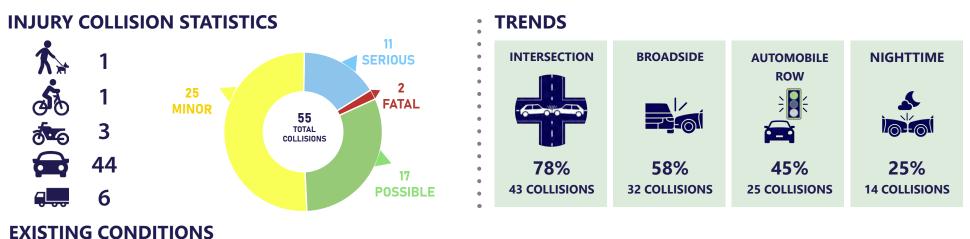
IMPROVEMENTS	LIMIT	ESTIMATED COST
Citywide Street Light Inventory	Citywide	\$4,025,000
	CONTINGENCY COST	\$805,000
	ENGINEERING COST	\$1,690,500
	TOTAL COST	\$6,520,500

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PROJECT 3-A: BU-77 (NEW DALLAS HIGHWAY) CORRIDOR SAFETY IMPROVEMENTS



New Dallas Highway, also referred to as US Business 77, is a four-lane divided minor arterial traverses through Lacy Lakeview, running parallel to I-35. The posted speed limit is 45 mph on this section of New Dallas Highway. US Business 77 provides access to Connally High School, and Connally Elementary School. The project for the corridor of US Business 77 (New Dallas Highway) is presented in two phases (Phase A and B). Project 3-A entails the installation of medians, street Lighting, and sidewalks throughout the corridor, while Project 3-B proposes complete street improvements including the full reconstruction of the corridor.





Existing Condition: BU-77 (New Dallas Hwy) at E Frost St facing north

Existing Condition: BU-77 (New Dallas Hwy) at Ave B facing south

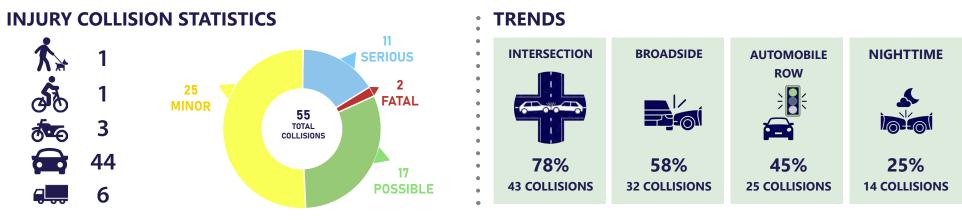
	3-A: BU-77 (NEW DALLAS HIGHWA	Y) CORRIDOR SAFETY IMPROVEMENTS	
	IMPROVEMENTS	LOCATIONS	ESTIMATED COST
()	Install Sidewalk	From Jamos Divelto Ave C	\$1,642,700
	Install Street Lighting	From James Blvd to Ave C	\$554,300
ŧŧ.	Install Sidewalk		\$3,297,300
	Install Street Lighting	From Ave C to Meyers Ln	\$601,500
alt	Install Median		\$2,474,600
it.	Install Sidewalk	From Meyers Ln to SL-340 (Industrial Blvd)	\$670,300
	Install Street Lighting		\$128,800
		CONTINGENCY COST	\$1,873,900
		ENGINEERING COST	\$3,935,200
		TOTAL COST	\$15,178,600



PROJECT 3-B: BU-77 (NEW DALLAS HIGHWAY) CORRIDOR SAFETY IMPROVEMENTS



Given that Project 3-B involves roadway reconstruction, the improvements implemented as part of Project 3-A may require removal to meet the new roadway geometry. Because of this, both projects are presented as standalone projects with separate costs.



EXISTING CONDITIONS



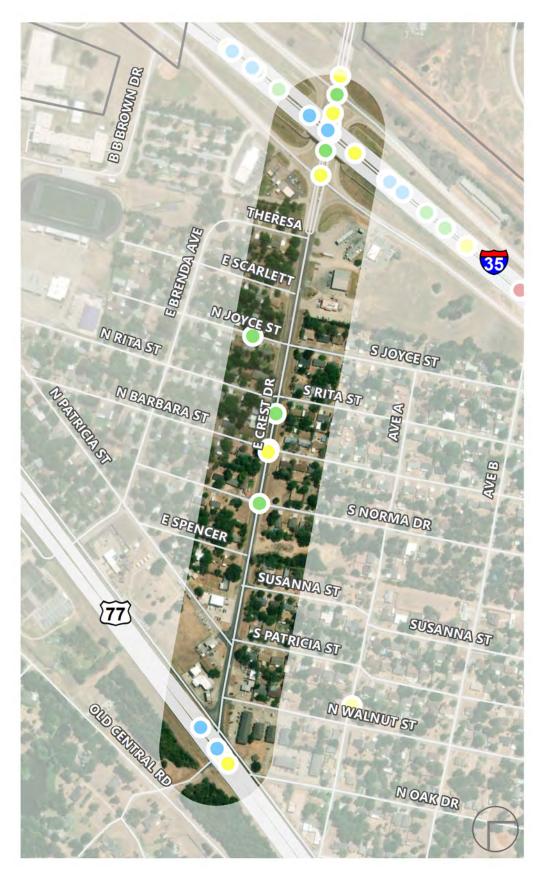
Existing Condition: BU-77 (New Dallas Hwy) at E Frost St facing north

Existing Condition: BU-77 (New Dallas Hwy) at Ave B facing south

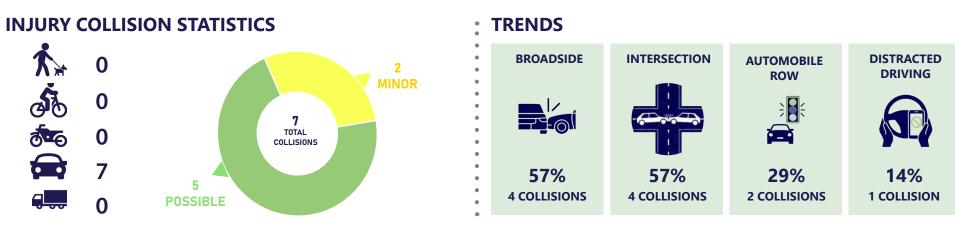
3-B: BU-77 (NEW DALLAS HIGHWAY) CORRIDOR SAFETY IMPROVEMENTS							
IMPROVEMENTS LOCATIONS ESTIMATED COST							
	Complete Streets Project	From James Blvd to Ave C	\$6,900,000				
<u></u>	Complete Streets Project	From Ave C to Meyers Ln	\$8,832,000				
	Complete Streets Project	From Meyers Ln to SL-340 (Industrial Blvd)	\$1,265,000				
	Install Roundabout	BU-77 and E Crest Dr	\$1,150,000				
	Install Roundabout	BU-77 and E Craven Ave	\$1,150,000				
		CONTINGENCY COST	\$3,859,400				
		ENGINEERING COST	\$8,104,800				
		TOTAL COST	\$31,261,200				



PROJECT 4: FM-2417 (E CREST DRIVE)- CORRIDOR SAFETY IMPROVEMENTS



E Crest Drive, a two-lane undivided minor arterial, provides access to surrounding residential neighborhoods. The posted speed limit is 30 mph. E Crest Drive connects Connally High School, Connally Elementary School, and the Texas State Technical College.



EXISTING CONDITIONS



Existing Condition: FM-2417 (E Crest Dr) at N/ S Patricia St facing east

Existing Condition: FM-2417 (E Crest Dr) at N/ S Rita St facing east

ESTIMATED COST OF IMPROVEMENT

	4: FM-2417 (E CREST DR)- CORRIDOR SAFETY IMPROVEMENTS							
	IMPROVEMENTS	LOCATIONS	ESTIMATED COST					
26	Install Speed Feedback Sign		\$34,500					
M	Install Street Lighting		\$246,100					
	Sign Upgrades	From BU-77 (New Dallas Hwy) to I-35 Frontage Rd	\$10,100					
	Clear Sight Triangles		\$3,500					
* *	Install Sidewalks		\$1,840,500					
X.	Crosswalk Installation with Enhancements	N Rita St	\$24,200					
_		CONTINGENCY COST	\$431,800					
		ENGINEERING COST	\$906,800					
		TOTAL COST	\$3,497,500					

Fatal Injury

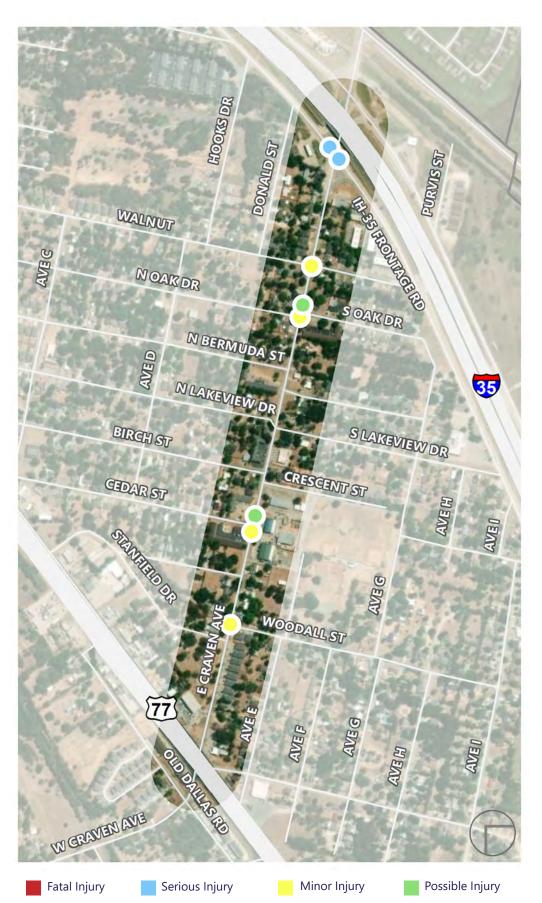
Serious Injury

Minor Injury

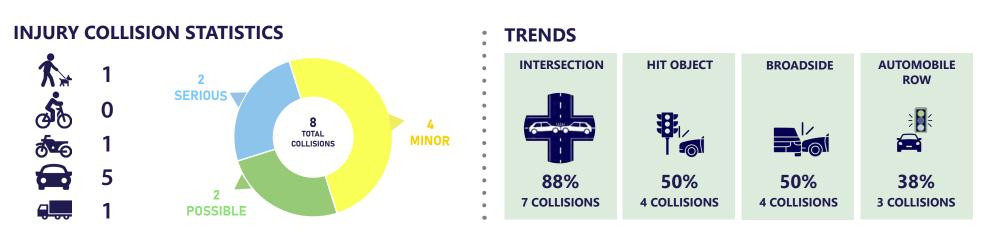
Possible Injury



PROJECT 5: E CRAVEN AVENUE- CORRIDOR SAFETY IMPROVEMENTS



E Craven Avenue, a two-lane undivided major collector, provides access to residential neighborhoods and Lacy Lakeview City Hall. The posted speed limit is 30 mph.



EXISTING CONDITIONS



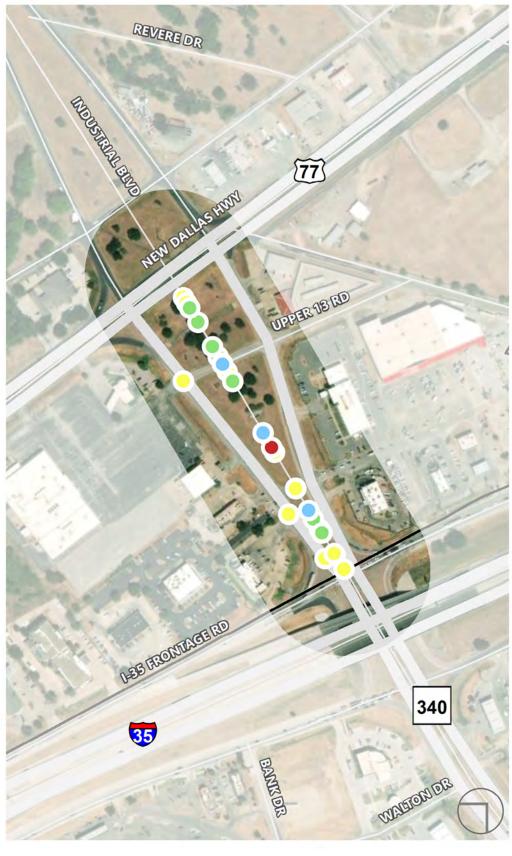
Existing Condition: E Craven Ave at Woodall St facing east

Existing Condition: E Craven Ave at N/S Oak Dr facing west

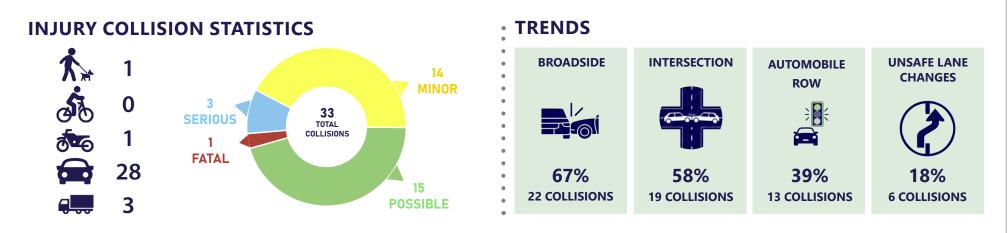
5: E CRAVEN AVE- CORRIDOR SAFETY IMPROVEMENTS						
	IMPROVEMENTS	LOCATIONS	ESTIMATED COST			
	Pedestrian Connectivity Improvements (Sidewalk, Crosswalks)		\$2,707,000			
	Install Striping		\$53,000			
	Install Street Lighting	From BU-77 (New Dallas Hwy) to I-35 Frontage Rd	\$296,700			
	Minor Street Striping and Sign Upgrades	-	\$11,300			
	Install Speed Feedback Sign		\$34,500			
_		CONTINGENCY COST	\$620,500			
		ENGINEERING COST	\$1,303,100			
		TOTAL COST	\$5,026,100			



PROJECT 6: SL-340 (INDUSTRIAL BOULEVARD)- CORRIDOR SAFETY IMPROVEMENTS



Industrial Boulevard, a four-lane divided principal arterial, provides connection between US Business 77 and IH-35. The posted speed limit is 40 mph.





Existing Condition: SL-340 (Industrial Blvd) at Upper 13 Rd facing east

Existing Condition: SL-340 (Industrial Blvd) at I-35 Frontage Rd facing west

ESTIMATED COST OF IMPROVEMENT

6: SL-340 (INDUSTRIAL BLVD)- CORRIDOR SAFETY IMPROVEMENTS					
	IMPROVEMENTS	LOCATIONS	ESTIMATED COST		
X *	Pedestrian Connectivity Improvements (Sidewalk & Crosswalk)	From BU-77 (New Dallas Hwy) to I-35	\$725,900		
	Install Street Lighting		\$136,900		
N.Y	Dedicated Left Turn Lanes		\$81,000		
	Sign Upgrades		\$7,200		
	Revise Lane Configuration	I-35 Frontage Rd Exit Ramp	\$7,400		
X *	Pedestrian Connectivity Improvements (Sidewalk & Crosswalk)	BU-77 (New Dallas Hwy)	\$435,900		
	Signal Hardware Upgrades		\$24,200		
_		CONTINGENCY COST	\$283,700		
		ENGINEERING COST	\$595,800		
		TOTAL COST	\$2,298,000		

Fatal Injury

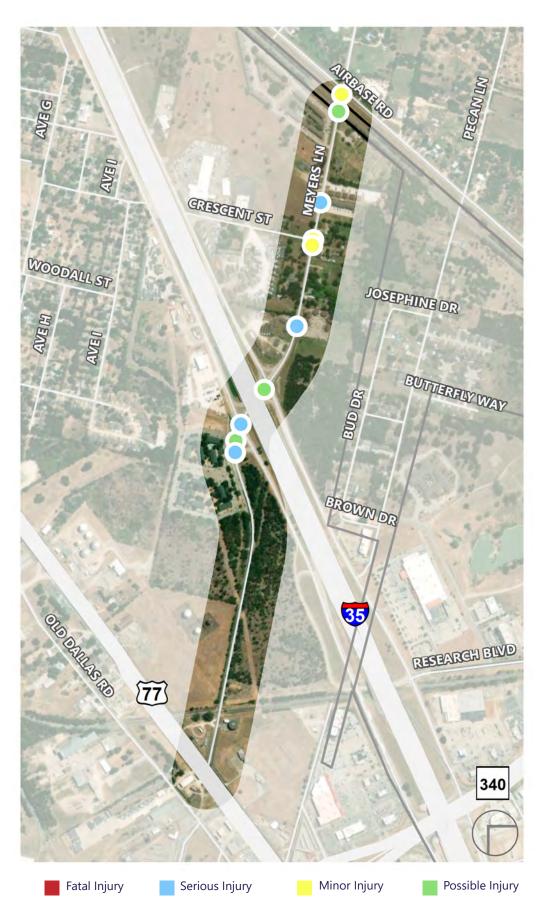
Serious Injury

Minor Injury

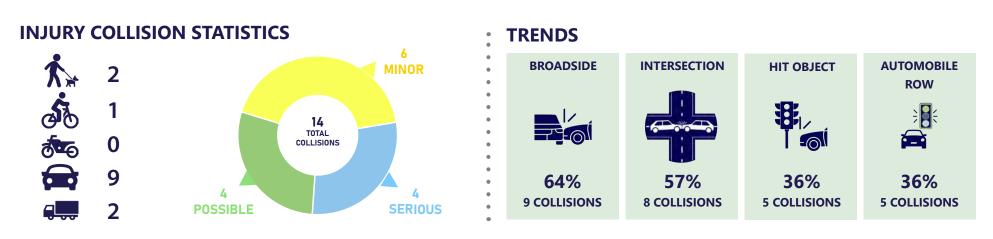
Possible Injury



PROJECT 7: MEYERS LANE- CORRIDOR SAFETY IMPROVEMENTS



Meyers Lane, a two-lane undivided major collector street, provides access to I-35. The posted speed limit is 30 mph.



EXISTING CONDITIONS



Existing Condition: Meyers Ln at Crescent St facing east

Existing Condition: Meyers Ln at I-35 n Frontage Rd facing west

7: MEYERS LANE- CORRIDOR SAFETY IMPROVEMENTS				
	IMPROVEMENTS	LOCATIONS	ESTIMATED COST	
	Install Striping	From BU-77 (New Dallas Hwy) to Airbase Rd	\$49,700	
	Install Street Lighting		\$335,800	
	Install Safety Edge		\$87,400	
٢	Sign Upgrades		\$9,000	
\bigcirc	Advance Warning Flashing Beacon	Advance of I-35 Frontage Rd Intersection	\$17,300	
-		CONTINGENCY COST	\$99,900	
		ENGINEERING COST	\$209,700	
		TOTAL COST	\$808,800	

