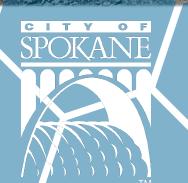
Vision Zero Action Plan

Date: June 2023 Crash Data Time Period: 2017-2021 Developed using the FHWA Systemic Safety Project Selection Tool and Risk-Based Safety Assessment

Prepared by: Integrated Capital Management Planning Services



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RESOLUTION NO. 2022-0107

IN SUPPORT OF A GOAL TO ELIMINATE FATALITIES AND SEVERE INJURIES ON CITY STREETS

A resolution committing to a goal to achieve zero traffic fatalities and severe injuries among all road users (including people walking, biking, using transit, and driving).

WHEREAS, the City of Spokane's Comprehensive Plan (2019), Spokane Downtown Plan (2021), Bicycle Plan (2017) and Pedestrian Plan (2015) all seek to reduce serious or fatal pedestrian and bicycle injuries; and

WHEREAS, as stated in Spokane City Bicycle Master Plan Policy BMP 2: Complete and maintain connected bikeways that provide safe transportation for Spokane cyclists throughout the City, BMP 4: Enhance the safety of people riding bicycles through detailed crash analysis, BMP 5: Develop a collaborative program between a variety of city departments and agencies and outside organizations to implement the Bike Master Plan through capital project delivery as well as community planning processes; and

WHEREAS, Vision Zero is a holistic strategy aimed at eliminating all traffic fatalities and severe injuries suffered by all road users in Spokane while increasing safe, healthy, and equitable mobility for all;

WHEREAS, similar efforts are founded on a Safe Systems approach that recognizes humans will make mistakes and roadway systems and policies should be designed to protect them; and

NOW THEREFORE, BE IT RESOLVED that the Spokane City Council adopts a goal to eliminate traffic deaths and severe injuries within the set timeframe of 2042, and adopts the analysis provided by the City's Local Road Safety Risk-Based Analysis as the City's Safety Action Plan.

Adopted by the City Council this 12th day of December, 2022.

Approved as to form:

Michael J. Piccolo

Assistant City Attorney



Introduction

The City of Spokane is committed to reducing fatal and serious injury crashes within its transportation network. Target Zero: Washington State Strategic Highway Safety Plan provides a data-driven approach to achieving this goal through established priorities and strategies, including guidance on using the Federal Highway Administration's (FHWA) *Systemic Safety Project Selection Tool*. Following the methodology in the *Target Zero* plan guides the City toward reducing fatalities and serious injury crashes through a proven approach.

Using the recommended, standardized methods of data analysis allows the City to efficiently direct resources towards efforts that create the greatest reduction of the most severe crash types. Using Washington State Department of Transportation's (WSDOT) crash data allows the City to efficiently sort crash types and locations, identify trends, select the most effective treatments, and undertake a logical approach to addressing the most critical locations and behaviors in the transportation network. By identifying priorities, creating common goals, developing a common language, and offering a menu of solutions, the Plan helps identify the unique risks in our community and the most effective strategies for addressing them.

Terminology

High Injury Network: Analyzing up-to-date local crash data allowed identification of street characteristics most frequently associated with severe or serious-injury crashes. Streets with these characteristics represent Spokane's High Injury Network, shown on Map 3.

Priority Study Area: Based on the results of the crash data assessment, the downtown area and adjacent census tracts emerged as an area with a high concentration of streets on the High Injury Network. With recent public involvement and street safety improvement concepts developed for this area through the Downtown Master Plan and other parallel planning processes, this area was well-situated for safety project implementation and was identified as the Priority Study Area shown on Map 4.

Risk Based Safety Assessment: The City previously completed a Risk Based Safety Assessment to serve as a Local Road Safety Plan under WSDOT's City Safety Program. This assessment was updated with 2017-2021 data to serve as the basis for the City's Vision Zero Action Plan.

Assessment of Existing Plans, Policies, Guidelines

Over the past two decades Spokane has adopted several ordinances, policies and guidelines to improve safety.

<u>SMC 17H.020</u> Complete Streets Program: Adopted in 2011. This section focuses on providing better facilities for non-motorized and transit users throughout the city.

<u>SMC 17H.010.210</u> Crosswalks: Adopted in 2014. This section establishes typical locations for marked crosswalks by zoning and adjacent land use (parks, schools, trail crossings, etc.) without the need to conduct a detailed engineering evaluation first.

<u>SMC 17H.010.215</u> Regional Trail Crossings: Adopted in 2014. This section requires that raised crosswalks be installed for regional trail crossings. In addition, traffic control shall require street traffic to stop for the trail, if deemed appropriate by an engineering study.

<u>SMC 16A.84</u> Pedestrian Safety: Adopted in 2019. This section recommended implementation of pedestrian recall on downtown signals during the daytime hours. Leading pedestrian intervals are strongly encouraged at downtown signals and those near schools, childcare centers, hospitals, and any others with higher levels of pedestrian traffic. This section sets a goal to deploy Accessible Pedestrian Signals at all signalized intersections.

SMC 17H.010 Street Development Standards: Updated in 2020. Along with updates to the City's Design Standards, staff updates several sections of code to allow narrower residential streets, wider sidewalks and buffers, narrower arterial lane widths, two ADA ramps per corner, and many other adjustments.

<u>SMC 16A.64</u> Automated Traffic Camera Systems:

Adopted in 2008. The City adopted code allowing Red Light cameras and School Zone Speedy cameras to reduce speeding and red lighting running. Proceeds from the fines are put into the City's Neighborhood Traffic Calming Program.

Pedestrian Master Plan: Adopted in 2015. This plan prioritizes certain areas of the City for sidewalk investment based on population density and surround land uses.

<u>Bicycle Master Plan</u>: Updated in 2022. Staff regularly updates the Bicycle Master Plan to reflect

the needs and priorities for future bicycle facilities in the City.

Downtown Plan Goal – Connected and Walkable:

Updated in 2021. Energize streets as active pedestrian and bike-friendly connections. Capitalize on the City Line and support the transit network by improving access to it.

Comprehensive Plan Goal F – **Enhance Public Health and Safety:** Updated in 2017. Promote healthy communities in Spokane by providing and maintaining a safe transportation system with viable active mode options that provides for the needs of all travelers, particularly the most vulnerable users.

Comprehensive Plan Policy TR1 – Transportation Network for All Users: Updated in 2017. Design the transportation system to provide a complete network for all users, maximizing innovation, access, choice and options through the four seasons. All streets must meet mandated accessibility standards.

Systemic Safety Project Selection

Methodology

Data for this analysis runs from January 1, 2017, through December 31, 2021, with data derived from accident reports provided by the Washington State Patrol.

This analysis seeks to identify trends in fatal and serious crashes and then propose solutions. In achieving this goal, the analysis follows five steps:

- I. Classify fatal and serious crashes by crash type, and assign priority levels to each type,
- II. Identify roadway characteristics associated with high priority crash types,
- III. Identify locations within the City transportation network that have these characteristics,
- IV. Identify treatments for these locations, and
- V. Prioritize projects.

Step 1: Classify Crashes by Type and Assigning Priorities

In this step, WSDOT-provided data was sorted by crash type. Each crash type was then assigned a priority level, based on examples and approaches recommended in *Target Zero*. Based on this guidance, the selected priority levels are as follows:

- **Priority Level 1**: Contributing factors involved in 30% or more of fatal or serious injury crashes.
- **Priority Level 2**: Contributing factors involved in 10% to 30% of fatality or serious injury crashes.

• **Priority Level 3**: Contributing factors involved in all other fatality or serious injury crashes.

Table 1 quantifies the City's crash types and compared to the same accident types in Washington State overall and indicate priority levels for each crash type. Priority 1 and 2 crash types have been highlighted.

The most prominent collision pattern is the "Vulnerable User Involved" at <u>35.4% of all Fatal/Serious crashes</u> within the City of Spokane. This collision pattern has been selected as the focus of the analysis and project list for the purposes of this action plan.

Fatal/Serious Crashes All Crashes Priority City-Owned City-Owned Level City of Spokane City of Spokane Streets Streets Overall 458 2.3% 5,012 1.7% 19,698 301,913 By Primary Crash Type 100 21.8% 23.6% 36.5% 2 Angle 1,183 6,552 33.3% 110,168 **Fixed Object** 11.8% 54 821 16.4% 2,200 11.2% 31,666 10.5% 2 35.4% Vulnerable User Involved 162 4.9% 1 972 Bicyclist(s) Involved 34 7.4% 304 1.5% 3 27.9% 2 Pedestrian(s) Involved 128 3.4% 668 By Junction Relationship Intersection-Related 200 43.7% 2,443 48.7% 9,432 47.9% 153,454 50.8% 1 Non-Intersection-Related 159 2,132 34.7% 42.5% 6,594 33.5% 106,170 35.2% 1

Table 1 Analysis of City Crash data 2017-2021

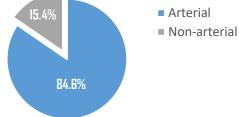
Step 2. Identifying Roadway Characteristics

Staff analyzed the fatal/serious crash patterns for vulnerable users to home in on common roadway characteristics. Appendix A includes the detailed analysis, which shows that 85% of fatal and serious crashes involving vulnerable users occurs on Spokane's arterial street system. Fatal and Serious Collisions

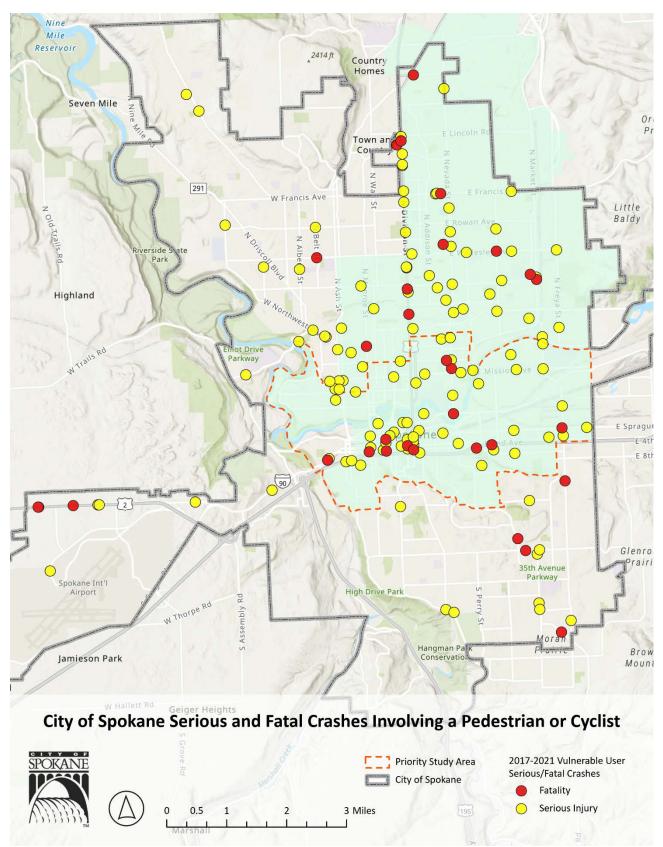
Contributing factors for Fatal and Serious Collisions with Vulnerable Users citywide can be drawn from the additional analysis in Appendix A and are summarized as follows:

- 23% of these collisions occurred at arterial traffic signals.
- 58% of these collisions occurred at arterial intersections (all types of control).
- 40% of bicycle-specific collisions occurred on arterial roadway segments



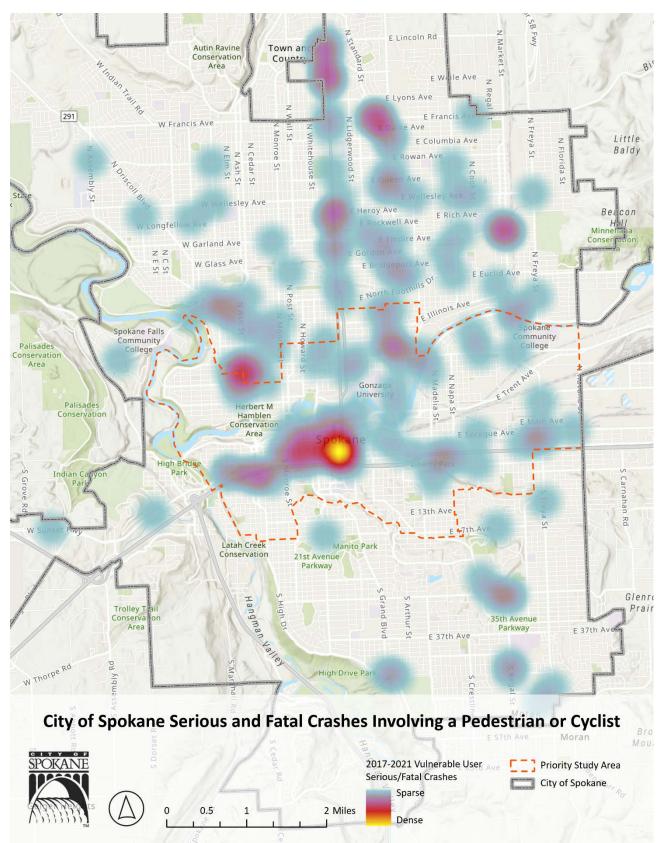


A closer look at the arterials and crash locations indicates that 227.1 specific miles of arterial stand out as a High-Injury Street Network for the city. <u>This High Injury Network includes Major & Minor Arterials</u>, <u>Highways</u>, and <u>collectors across the city and within the Priority Study Area</u> (see Map 3).



Map 1 Vulnerable User (Ped & Bike) Serious and Fatal Crashes

Map 2 Vulnerable User Crash Heat Map



Step 3. Identify Priority Locations

Census Tracts Identified as Underserved or Disadvantaged

For purposes of this study the City is identifying disadvantaged communities using the <u>2023 Climate and</u> <u>Economic Justice Screening Tool</u>. This tool identifies almost all the downtown core, surrounding areas and much of north Spokane as areas considered disadvantaged (see Map 3). According to the 2020 census tract data 127,255 people reside in disadvantaged community tracts. Spokane has a total population of 219,185¹ meaning that approximately 58% of residents reside in a disadvantaged community tract. Within these disadvantaged community tracts 126 of 162 (78%) vulnerable user fatal and serious crashes occurred. Total area of the disadvantaged community tracts is 39.4 square miles and total area of the City of Spokane is 69.5 square miles.

Total high risk road network² miles is 227.1 and within the disadvantaged community tracts total high risk road network miles is 65, or 29% of total high risk road network miles (see Map 3).

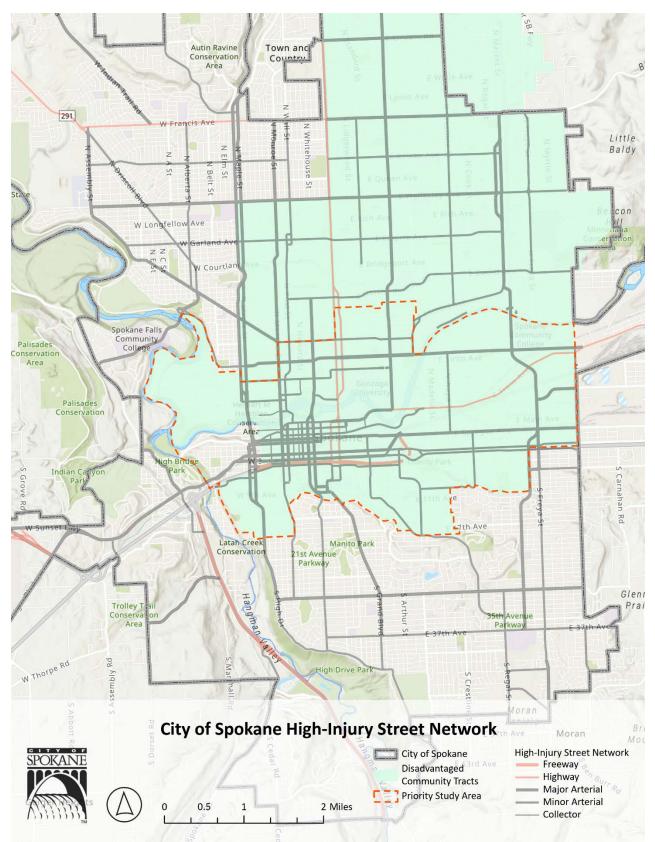
Causal factors specific vulnerable user collisions in the Disadvantaged Community census tracts include:

- 58% at intersection and related
- 68% had no traffic control device, indicating a mid-block or uncontrolled intersection
- 25% at signalized intersections
- Travelling in the dark

Data-driven safety enhancements for these neighborhoods may include: sidewalk infill on arterial streets, narrowing or removing vehicular travel lanes, installing bike lanes, shortened crossing distances, refuge islands, pedestrian hybrid beacons, crosswalk lighting and ADA ramps to ensure everyone can access the sidewalk.

¹ American Community Survey (2023). S0101 AGE AND SEX 2020: ACS 5-Year Estimates Subject Tables. Retrieved from https://data.census.gov/

² High risk road network includes major arterials, minor arterials, collectors, freeways, and highways. Also includes all streets and roads in the Downtown Plan Boundaries.



Map 3 City of Spokane High Injury Network & Disadvantaged Community Tracts

Table 2 Contributing Factors to Fatal and Serious Crashes with Vulnerable Users, within DisadvantagedCommunity Tracts

| Contributing Factors | # of Severe and Fatal | % of Total Serious and Fatal Injuries |
|-------------------------------------|-----------------------|---------------------------------------|
| contributing ractors | Injuries | (n=126) |
| | Light Conditions | |
| Dark | 62 | 49.21% |
| Daylight | 58 | 46.03% |
| Dusk/Dawn | 6 | 4.76% |
| | Posted Speed | |
| 20 | 2 | 1.59% |
| 25 | 15 | 11.90% |
| 30 | 53 | 42.06% |
| 35 | 10 | 7.94% |
| 45 | 1 | 0.79% |
| 60 | 1 | 0.79% |
| <null></null> | 44 | 34.92% |
| | Vehicle Action | |
| Backing | 4 | 3.17% |
| Changing Lanes | 2 | 1.59% |
| Going Straight Ahead | 85 | 67.46% |
| Making Left Turn | 18 | 14.29% |
| Making Right Turn | 8 | 6.35% |
| Making U-Turn | 1 | 0.79% |
| Other | 3 | 2.38% |
| Starting From Parked Position | 3 | 2.38% |
| Starting in Traffic Lane | 2 | 1.59% |
| | Junction Relationsh | ip |
| At Driveway | 4 | 3.17% |
| At Intersection and Not Related | 4 | 3.17% |
| At Intersection and Related | 74 | 58.73% |
| Exiting Roundabout | 1 | 0.79% |
| Intersection Related but Not at | 2 | 2.20% |
| Intersection | 3 | 2.38% |
| Not at Intersection and Not Related | 40 | 31.75% |
| | Traffic Control | |
| No Traffic Control | 86 | 68.25% |
| Other Traffic Control | 1 | 0.79% |
| Signals | 32 | 25.40% |
| Stop Sign | 7 | 5.56% |
| | Road Classification | ı |
| Alley | 1 | 0.79% |
| Collector | 6 | 4.76% |
| Freeway | 3 | 2.38% |
| Highway | 29 | 23.02% |
| Local | 19 | 15.08% |
| Major Arterial | 48 | 38.10% |
| Minor Arterial | 20 | 15.87% |

Priority Study Area

The Priority Study Area as identified in Map 4 contains 68 of the 162 vulnerable user fatal and serious injury crashes. This subsection of the total high injury network is 12 square miles of vital core for pedestrian and

pedacyclist traffic. According to the 2020 census tract data, the study area has a population of 50,708 with 45,249 (89.23%) residents living within census tracts considered disadvantaged. Table 3identifies all crashes and some of the causal factors within the Priority Study Area boundaries.

Causal factors specific to the Priority Study Area include:

- Lack of a traffic control device
- Speeding
- Turning at signalized intersections
- \odot Travelling in the dark

89% of the 50,000 residents in the Priority Study Area are considered disadvantaged.

In the Priority Study Area these types of collisions can be prevented through data-driven safety enhancements such as: leading pedestrian intervals, signal phasing improvements, lane reductions, protected bike lanes, shortened crossing distances, removing vehicular travel lanes, crosswalk lighting and ADA ramps to ensure everyone can access the sidewalk.

The Priority Study Area meets a significant number of criteria for being classified as being disadvantaged according to the <u>Climate and Economic Justice Screening Tool</u>. Some of the criteria for this area being considered disadvantaged include:

- Low income: People in households where income is less than or equal to twice the federal poverty level, not including students enrolled in higher ed. Most of the tracts within the study area exceed the 65th percentile according to the Climate and Economic Justice Screening Tool.
- Asthma & Air Pollution: A significant portion of the tracts within the priority study area are above the 90th percentile for the share of people who have been told that they have asthma. This is likely correlated to the high levels of PM2.5 in the air occurring in most of the tracts.
- Housing Costs: 40% of renters pay more than 35% of the gross household income on rent.³
- Households without a vehicle: On average, 18.66% of households in the priority study area do not have a vehicle available.⁴ This ranges from 6% to 30% in some of the lowest socioeconomic status tracts. The lack of vehicle availability, depending on car-dependence of the physical environment, can contribute positively to the economic wellbeing of families through increased choices in living situations and employment. Alternatively, a well-designed street network oriented towards transit and active transportation can have similar benefits while also benefiting greenhouse gas emissions, congestion, and aesthetics of the area.
- Transportation Proximity: Most of the tracts within the priority study area are affected by interstates and state highways. I-90 bisects most of the tracts and creates a disconnection between the north-south neighborhoods and may cause significant noise and air pollution, increasing risks to physical health.

³ U.S. Census Bureau. (2023). 2021 American Community Survey 5-year Estimates. DP04 Selected Housing Characteristics. ⁴ Ibid.

Division St in the downtown area is classified as a state highway and carries a significant portion of the north-south traffic.

Included in the Priority Study Area is the <u>Downtown Planning area</u>. The Downtown Planning Area has the highest rate of serious and fatal collisions for vulnerable users (bicyclists and pedestrians). Of the 162 serious and fatal collisions across the city 28, or 17.2%, of those crashes occurred in the Downtown Planning Area while only account for 1.66 square miles of the 69.52 square miles, or 2.4%, of the land within City boundaries.

Why is the Downtown area (primarily located in tract 35, see Map 5) considered disadvantaged according to the Climate and Economic Justice Screening Tool?

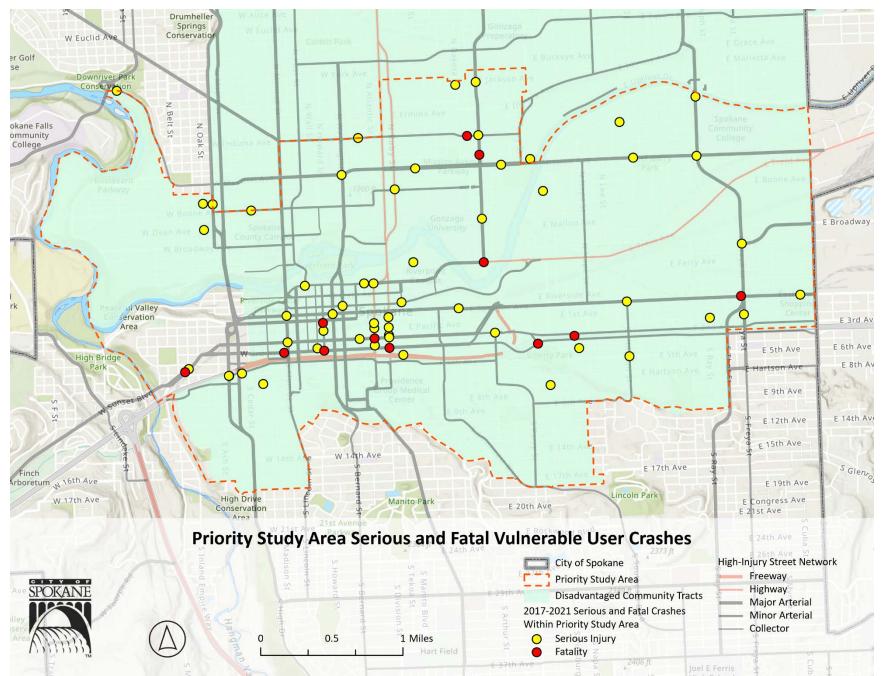
- 95th Percentile in "Low Income: People in households where income is less than or equal to twice the federal poverty level, not include students enrolled in higher ed."
- **91st percentile** in "Asthma: Share of people who have been told they have asthma."
- 96th percentile in "Heart disease: Share of people ages 18 ears and older who have been told they have heart disease."
- 96th percentile in "Low life expectancy: Average number of years a person can expect to live."
- 91st percentile in "Lack of green space: Amount of land, not including crop land, that is covered with artificial materials like concrete or pavement."

- 97th percentile in "Traffic proximity and volume: Count of vehicles at major roads within 500 meters."
- 96th percentile in "Underground storage tanks and releases: Formula of the density of leaking underground storage tanks and number of all active underground storage tanks within 1500 feet of the census tract boundaries."
- 99th percentile in "Low median income: Comparison of median income in the tract to median incomes in the area."
- 97th percentile in "Poverty: Share of people in household where income is at or below 100% of federal poverty level. "

Though Downtown has been identified as a disadvantaged census tract, as highlighted above, <u>The Downtown</u> <u>Plan</u> recognizes that Spokane's Downtown is the hub of the region's economic viability and stability and is also the center of the region's cultural and art scene attracting diverse populations. The Downtown neighborhood has one of the overall lowest populations in the City but is representative of the diversity in Spokane being 16% non-white and is generally younger than Spokane's overall population at 82% under 62 years of age.

To implement the five goals of the Downtown Plan (see "Downtown Plan Public Workshops" on page 16) that were refined through community and stakeholder input, the plan has 15 priority actions that utilize a framework to implement improvements oriented towards increasing equitable access to services and amenities. These priority actions include the conversion of over-built low traffic streets to include bicycle and pedestrian infrastructure, activating pedestrian zones, decreasing land dedicated to vehicle storage, and implementing transportation demand management strategies.

Map 4 Priority Study Area boundaries



| Contributing Factors | # of Severe and Fatal Injuries | % of Total Serious and Fatal Injuries (n=68) |
|-------------------------------------|--------------------------------|--|
| | Light Conditions | |
| Dark | 34 | 50.00% |
| Daylight | 32 | 47.06% |
| Dusk/Dawn | 2 | 2.94% |
| | Posted Speed | |
| 25 | 7 | 10.29% |
| 30 | 20 | 29.41% |
| 35 | 2 | 2.94% |
| 60 | 2 | 2.94% |
| <null></null> | 37 | 54.41% |
| | Vehicle Action | |
| Backing | 4 | 5.88% |
| Changing Lanes | 2 | 2.94% |
| Going Straight Ahead | 42 | 61.76% |
| Making Left Turn | 12 | 17.65% |
| Making Right Turn | 3 | 4.41% |
| Making U-Turn | 1 | 1.47% |
| Other | 2 | 2.94% |
| Starting | 2 | 2.94% |
| | Junction Relationsh | nip |
| At Driveway | 1 | 1.47% |
| At Intersection and Not Related | 5 | 7.35% |
| At Intersection and Related | 35 | 51.47% |
| Not at Intersection and Not Related | 27 | 39.71% |
| | Traffic Control | |
| No Traffic Control | 45 | 66.18% |
| Signals | 20 | 29.41% |
| Stop Sign | 3 | 4.41% |
| | Road Classification | n |
| Collector | 3 | 4.41% |
| Freeway | 3 | 4.41% |
| Highway | 13 | 19.12% |
| Local | 11 | 16.18% |
| Major Arterial | 26 | 38.24% |
| Minor Arterial | 12 | 17.65% |

Table 3 Priority Study Area Boundary Crashes with a Vulnerable User

Step 4: Select Countermeasures

Following identification of locations, effective countermeasures are identified for each crash type as shown in Table 4. Countermeasures are evaluated through FHWA's Crash Modification Factors (CMF) clearinghouse. The CMF clearinghouse contains safety countermeasures and scores its effectiveness at reducing crashes. The CMF rating estimates the reduced frequency of crashes following the installation of the countermeasure. For example, if the CMF is 0.70, the amount of crashes would be expected to be 70% of the existing number of crashes.

| CMF | ID # | Countermeasure | Crash Type | Severity |
|---------|--------|---|------------|----------|
| 0.75 | #9017 | Install advanced yield or stop markings and signs | Veh-Ped | All |
| 0.60 | #4123 | Install high-visibility crosswalk markings | Veh-Ped | All |
| 0.54 | #175 | Add raised median with marked crosswalk | Veh-Ped | All |
| 0.61 | #176 | Add raised median without marked crosswalk | Veh-Ped | All |
| 0.29 | * | Install raised median | All | All |
| 0.41 | #441 | Provide intersection illumination | Veh-Ped | S, M |
| 0.5 (?) | - | Add curb extensions (estimated CMF) | all | all |
| 0.53 | #9024 | Install RRFB | Veh-Ped | All |
| 0.43 | #9021 | Install PHB with advanced yield or stop markings | Veh-Ped | All |
| 0.77 | #319 | Install traffic signal | All | All |
| 0.73 | #10741 | Install bike lanes with reduced vehicle lane width | All | All |
| 0.84 | #9903 | Install Leading Pedestrian Interval | Veh-Ped | All |
| 0.60 | #11246 | Install sidewalk | Veh-Ped | All |
| 0.75 | #9250 | Install shared-use pathway | Veh-Bike | All |
| 0.37 | ** | Install bicycle boulevard | Veh-Bike | All |
| 0.61 | #3258 | Install colored bike lanes at signalized intersections | Veh-Bike | All |
| 0.55 | *** | Install raised pedestrian crosswalks | Veh-Ped | All |
| 0.59 | *** | Changeable speed warning signs | All | All |
| 0.94 | *** | Corridor-specific traffic calming | All | All |
| n/a | n/a | Add bike runnels to existing public stairways | Veh-Bike | All |
| n/a | n/a | Add lighting, railing, etc to existing public stairways | Veh-Ped | All |

Table 4 CMF's for Fatal/Serious crashes with Vulnerable User

* Correlating Access Management to Crash Rate, Severity and Collision Type

** Cyclist Safety on Bicycle Boulevard and Parallel Arterial Routes, 2011.

*** Handbook of Road Safety Measures, 2004.

Step 5: Recommended Projects and Strategies

Projects on the list are from a variety of sources, including the Downtown Plan, prior-year Local Road Safety Plans, the ADA Transition Plan, requirements from City Ordinances, and locations identified in the 2017-2021 crash analysis in this document, with the intent to mitigate many fatal and serious non-motorized collisions. Cost estimates are detailed in Appendix C. Prioritization of these projects and strategies shown in Table 5 are reflected in the "Time" column. High-priority projects are expected within 5 years. Mid and lower priority projects are reflected with the 10 or 20 year implementation timeline.

Table 5 Projects and Strategies

| Location | Improvement | Cost* | Time** |
|---|---|------------------------------|----------|
| 1 st Avenue from Maple to Bernard | Remove travel lane, install protected bike lane | \$786,000 | 5 yrs |
| Sprague Avenue from Maple to Lincoln | Remove travel lane, install protected bike lane | \$334,000 | 5 yrs |
| Washington from 5 th to Sprague | Remove travel lane, install protected bike lane | \$331,000 | 10 yrs |
| Stevens from 5 th to Sprague | Remove travel lane, install protected bike lane | \$336,000 | 10 yrs |
| 2 nd Avenue from Division to Arthur | Adjust lane widths, install buffer and extend bike lane | \$274,000 | 10 yrs |
| 3 rd Avenue from Division to Arthur | Remove travel lane, install protected bike lane, bus stop islands | \$438,000 | 10 yrs |
| Broadway Ave from Chestnut to Lincoln | Reduce or remove TWLTL, install bike lanes, bus stop islands | \$962,000 | 10 yrs |
| Mallon Ave from Lincoln to Howard | Reduce or remove TWLTL, install bike lanes | \$148,000 | 10 yrs |
| Mallon Ave from Monroe to Lincoln | Add sidewalk north side | \$165,000 | 5 yrs |
| Sharp Ave from Atlantic to Lidgerwood | Adjust striping to add bike lanes | \$222,000 | 10 yrs |
| Maple Street Bridge north side (old toll plaza) | Replace stairway with combination stairs and shared-use pathway | \$756,000 | 5 yrs |
| Iron Bridge shared-use pathway | Connect Iron Bridge to Ben Burr Trail | \$516,000 | 5 yrs |
| 14 th Avenue Stairway west of Perry and Perry from 13 th to 18th | Rebuild stairway with improved railings, bike runnel and lighting, sidewalk on Perry. | \$535,000 | 5 yrs |
| Unsignalized intersections | ADA ramps, including allowances for drainage adjustments | \$10,000 per corner | 1-20 yrs |
| Unsignalized intersections | Bumpouts as an add-on to ADA ramp | \$15,000 per corner | 1-20 yrs |
| Signalized intersections | ADA ramps, including allowances for drainage adjustments, junction boxes | \$15,000 per corner | 1-20 yrs |
| Signalized intersections | Add accessible pedestrian pushbuttons | \$10,000 per intersection | 10 yrs |
| Signalized intersections | Implement Leading Pedestrian Intervals | \$5,000 per intersection | 5 yrs |
| Unsignalized crosswalks | Raised crosswalk | \$30,000 | 1-10 yrs |
| Unsignalized crosswalks | Hard-wired RRFB with illumination | \$200,000 | 1-20 yrs |
| Unsignalized multilane crosswalks | PHB with illumination | \$300,000 | 20 yrs |
| Marked crosswalks (sig or unsig) | High visibility crosswalks per intersection leg | \$1,000 | 10 yrs |
| Bike lanes through intersections | Green paint for high-volume conflict zones | \$10,000 per intersection | 10 yrs |

*Concept level estimates that include design, construction, construction monitoring and contingency.

Public Engagement

The public engagement effort for elements of this action plan have taken place over several years and involved several different citizen groups. See Appendix D for a summary of the public engagement efforts.

Action Plan Committee Meetings

The City is working with the <u>Plan Commission Transportation Subcommittee</u> for further efforts on <u>development</u>, <u>implementation and monitoring of the Vision Zero Action Plan</u>. This group is a transportation-focused advisory committee to the Plan Commission, with representation from Spokane Public Schools, WSDOT, Spokane Regional Health District, several neighborhood councils, the Bicycle Advisory Board, Spokane Transit Authority, the Spokane Regional Transportation Council and several other citizens at large. These additional engagement efforts started in fall 2022 and ran through May 2023. The discussions were focused on the collision patterns, likely countermeasures, needed improvements to ordinances and methods to track progress over time. Their feedback was incorporated into the plan update in May 2023.

Going forward, the City will continue to work with this subcommittee for guidance on allocating any awarded funds for systemic projects.

Downtown Plan Public Workshops

The City's Downtown Plan update started in 2019 and ran through adoption in 2021. This included a wide variety of outreach such as workshops, online surveys, open houses, targeted group presentations and eventual adoption by the Plan Commission and City Council. The 22 member steering committee included representation from business and property owners, neighborhood councils, restaurant employees, homeless assistance organizations, arts groups and the university district. Many of the comments from the workshops and open houses were transportation focused, and



point to the need for improved safety of non-motorized users in the city center. Through the public workshops and various committees, five goals were identified for the Downtown Plan.

Five goals of the Downtown Plan

- A connected and walkable Downtown;
- Thriving arts, culture and historic places
- A great place to live, work and play;
- Welcoming and engaging public spaces for all; and
- A well-organized Downtown.

Along with the five overarching goals of the Downtown Plan, there were also seven key findings, four of which are related to transportation and equity issues, they include:

- I. Many streets in Downtown are auto dominated and oversized for vehicle capacity: Opportunities sexist to energize streets by expanding space for pedestrians, cyclists, and other forms of micro-mobility.
- II. Community members desire continued progress on two significant issues facing Downtown: providing services and solutions for those experiencing homelessness, followed by improved public safety. People consistently expressed concern for public safety.

- III. Activity centers are disconnected: While areas of Downtown have successful concentrations of activity, they are disconnected both physically and visually from the core of Downtown. Enhancing connections through street and mobility improvements, wayfinding, and infill development will help connect the City and the man amenities in Downtown.
- IV. Entries and connections into Downtown should feel safe, welcoming, and distinct: Major streets that are entrances to and exits from Downtown merit improvements as city-defining gateways. Other natural gateways like undercrossings can help offer a better experience and image of Downtown.

Outreach for City Ordinances

Because the City has adopted a number of safety-related ordinances for non-motorized travelers, the outreach associated with those efforts is also considered part of the public engagement effort for this action plan. All city ordinances involve a hearing in front of council and are often discussed in the local newspaper, giving citizens an opportunity to comment. These processes took place in 2011 with the Complete Streets Ordinance, in 2014 with the Crosswalk Ordinance and in 2019 with the Pedestrian Safety Ordinance.

Needed Policies, Plans, Guidelines, Standards

City staff has identified the following areas that need updates to provide safer facilities for our community:

- Comprehensive review of arterial speed limits to ensure appropriateness and consistency
- Speed limit downtown?
- Regular updates to the school zone and park speed limits
- Protected bike lane maintenance equipment and policy
- Clear view triangle updates for alleys, local roads, arterials, shared-use pathways
- Other vegetation blocking views or encroaching on sidewalks
- Crosswalk maintenance or new treatments
- Add to Standard Plans shared-use pathway sections, protected bike lane design
- Comprehensive update of bicycle plan

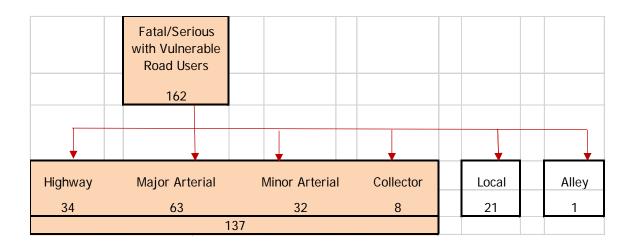
Measuring Progress

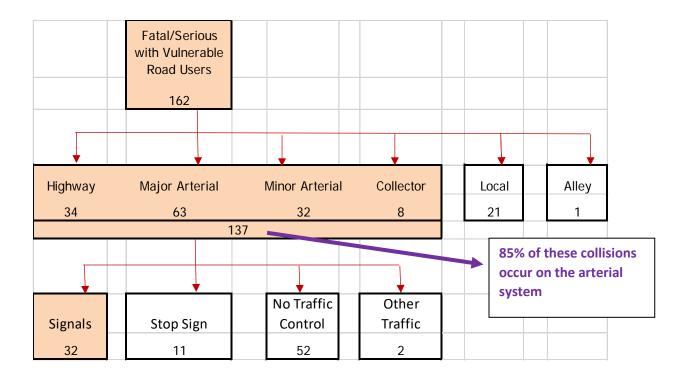
The City evaluates collision data through several planning and project level efforts. Much of this data is also available through WSDOT's online data portal, allowing more real-time monitoring. The City commits to tracking the following data points:

- Total number of collisions, fatalities and serious injuries citywide and downtown
- Total number of Pedestrian collisions, fatalities and serious injuries citywide and downtown
- Total number of bike collisions, fatalities and serious collisions citywide and downtown
- Most common contributing factors to these collision types
- \odot STA boarding data in the downtown

Appendix A

Risk Factor Identified details





Appendix B

Pedestrian Crossing Treatments

Figure 1 FHWA-SA-18-018 "Field Guide for Selecting Countermeasures at Uncontrolled Crossing Locations"

| | | | | | | | | | P | ost | ed | Sp | eed | l Li | mit | t ar | nd A | AAD | T | | | | | | | | |
|--|----|-----|------|-------|-----|------|------|-----|-----|-----|------|------|-----|------|-----|------|------|-----|----|-----|-----|------|----|----|------|------|----|
| | | Ve | ehio | cle A | AD | T <9 | 9,00 | 00 | | Ve | ehio | le A | ADI | r 9, | 000 |)-18 | 5,00 | 00 | | Ve | hic | e A/ | DT | >1 | 5,00 | 0 | |
| Roadway Configuration | ≤3 | 0 m | nph | 3 | 5 m | ph | ≥4 | 0 n | nph | ≤3 | 0 m | nph | 35 | 5 m | ph | ≥4 | 0 m | nph | ≤3 | 0 m | nph | 35 | mp | bh | ≥40 |) mj | oh |
| 0.1==== | 0 | 2 | | 0 | | | 1 | | | 0 | | | 0 | | | 1 | | | 0 | | | 1 | | | 1 | | |
| 2 lanes (1 lane in each direction) | 4 | 5 | 6 | | 5 | 6 | | 5 | 6 | 4 | 5 | 6 | | 5 | 6 | | 5 | 6 | 4 | 5 | 6 | | 5 | 6 | | 5 | 6 |
| | | | | 7 | | 9 | 0 | | 0 | | | | 7 | | 9 | 0 | | 0 | 7 | | 9 | 7 | | 9 | | | 0 |
| 2 Janes with raised median | 0 | 2 | 3 | 0 | | 3 | 1 | | 3 | 1 | | 3 | 1 | | 8 | 1 | | 3 | 1 | | 3 | 1 | | 3 | 1 | | 3 |
| 3 lanes with raised median (1 lane in each direction) | 4 | 5 | | | 5 | | | 5 | | 4 | 5 | | | 5 | | | 5 | | 4 | 5 | | | 5 | | | 5 | |
| (Thate in each arconomy | | | | 7 | | 9 | 0 | | 0 | 7 | | 9 | 0 | | 0 | 0 | | 0 | 7 | | 9 | 0 | | 0 | | | 0 |
| 3 lanes w/o raised median | 0 | 2 | 3 | 0 | | 8 | 1 | | 3 | 1 | | 3 | 1 | | 8 | 1 | | 0 | 1 | | 3 | 1 | | 8 | 1 | | 3 |
| (1 lane in each direction with a | 4 | 5 | 6 | | 5 | 6 | | 5 | 6 | 4 | 5 | 6 | | 5 | 6 | | 5 | 6 | 4 | 5 | 6 | | 5 | 6 | 5 | 6 | |
| two-way left-turn lane) | 7 | | 9 | 7 | | 9 | | | 0 | 7 | | 9 | 0 | | 0 | | | 0 | 7 | | 9 | | | 0 | | | 0 |
| | 0 | | 0 | 0 | | 8 | 1 | | 8 | 1 | | 0 | 1 | | 8 | 1 | | 8 | 1 | | 6 | 1 | | 8 | 1 | | 8 |
| 4+ lanes with raised median (2 or more lanes in each direction) | | 5 | | | 5 | | | 5 | | | 5 | | | 5 | | | 5 | | | 5 | | | 5 | | | 5 | |
| (2 of more idnes in edcir direction) | 7 | 8 | 9 | 7 | 8 | 9 | | 8 | 0 | 7 | 8 | 9 | 0 | 8 | 0 | | 8 | 0 | 0 | 8 | 0 | | 8 | 0 | | 8 | 0 |
| | 0 | | 0 | 1 | | 8 | 1 | | 8 | 1 | | 0 | 1 | | 0 | 1 | | 0 | 1 | | 0 | 1 | | 0 | 1 | | 8 |
| 4+ lanes w/o raised median | | 5 | 6 | | 5 | 6 | | 5 | 6 | | 5 | 0 | | 5 | 6 | | 5 | 0 | | 5 | 6 | | 5 | 6 | | 5 | 6 |
| (2 or more lanes in each direction) | 7 | 8 | 9 | 7 | 8 | 9 | | 8 | 0 | 7 | 8 | 9 | 0 | 8 | 0 | | 8 | 0 | 0 | 8 | 0 | | 8 | 0 | | 8 | 0 |

Table 1. Application of pedestrian crash countermeasures by roadway feature.

Given the set of conditions in a cell,

- # Signifies that the countermeasure is a candidate treatment at a marked uncontrolled crossing location.
- Signifies that the countermeasure should always be considered, but not mandated or required, based upon engineering judgment at a marked uncontrolled crossing location.
- O Signifies that crosswalk visibility enhancements should always occur in conjunction with other identified countermeasures.*

The absence of a number signifies that the countermeasure is generally not an appropriate treatment, but exceptions may be considered following engineering judgment.

- High-visibility crosswalk markings, parking restrictions on crosswalk approach, adequate nighttime lighting levels, and crossing warning signs
- 2 Raised crosswalk
- 3 Advance Yield Here To (Stop Here For) Pedestrians sign and yield (stop) line
- 4 In-Street Pedestrian Crossing sign
- 5 Curb extension
- 6 Pedestrian refuge island
- 7 Rectangular Rapid-Flashing Beacon (RRFB)**
- 8 Road Diet
- 9 Pedestrian Hybrid Beacon (PHB)**

Appendix C

Project Cost Estimates

| | Date Prepared: | 6/5/2023 | | Prepared by: J. | |
|--|---|---------------------------------------|-------------|--|---------------------------|
| Project Name: 1st Ave Bike Lanes - Maple to Bernard | | | | \$786,056 Pro | oj ID: ??? |
| Description: Reduce to 2 lanes, 3' buffered bike lane on south side | e. Add Green striping acr | oss intersection | ons. | | |
| Item Description | Bid Item No. | <u>Qty</u> | <u>Unit</u> | <u>Unit Cost</u> | Extension |
| Div | vision 1 - General Require | ements | | | |
| SPCC Plan | 1071020 | 1.0 | LS | \$2,000 | \$2,000 |
| Public Liaison Representative | 1070050 | 1.0 | LS | \$10,000 | \$10,000 |
| Reference and Reestablish Survey Monument | 1070060 | 1 | EA | \$1,000 | \$1,000 |
| Mobilization | 1090000 | 1.0 | LS | \$33,000 | \$33,000 |
| Project Tremporary Traffic Control | 1100000 | 1.0 | LS | \$33,000 | \$33,000 |
| | | | | subtotal: | \$79,000 |
| Demove Evicting Curb and/or Cuttor | Division 2 - Earthwork | | | ¢10 | ¢coo |
| Remove Existing Curb and/or Gutter | 20200_0 | 50 | LF SY | \$12 \$20 | \$600 \$1.490 |
| Remove Cement Concrete Sidewalk & Driveway | 2020040 2020130 | 59 2 | EA | \$20 \$45 | \$1,180 \$00 |
| Sawcutting Curb | | 136 | | \$45 \$1.50 | \$90 \$204 |
| Sawcutting Rigid and Flexible Pavement | 202015_ | 130 | LFI | subtotal: | \$204 \$2.07 |
| | Division 4 - Bases | | | Subtotal: | \$2,07 |
| CSTC for Sidewalk and Drivewaya | | 2 | CY | ¢150 | ሰ ጋጋር |
| CSTC for Sidewalk and Driveways | 4040030 | 2 | Cr | \$150 Subtotali | \$300 |
| Division | 5 - Surface Treatments 8 | Davomonto | | subtotal: | \$30 |
| | 5 - Surface Treatments 8 5020010 | | TON | \$725 | ¢14 E00 |
| Asphalt for Fog Seal | | 20 33 | SY | \$725 \$100 | \$14,500 \$2,200 |
| HMA for Pavement Repair, CL 1/2 IN. Heavy Traffic, 6 In. Thick | 50401 5040320 | 33 | SY | \$100 | \$3,300 \$1,220 |
| Pavement Repair Excavaton Including Haul | 5040320 | 33 | 31 | subtotal: | \$1,320 \$10,12 |
| | Division 6 - Structures | | | Subtotal. | \$19,120 |
| | Division 6 - Structures | 5 | | subtotal: | \$ |
| Division 7 Drainage Structure | a Storm Sowara Sonitar | V Sowara Wat | or main | | φ |
| Division 7 - Drainage Structure | s, storm sewers, samtar | y Sewers, wat | er main | s & Conduits subtotal: | \$(|
| Divisi | on 8 - Miscellaneous Cor | otruction | | Subiolai. | קו |
| - | | | . – | ¢40 | ¢4,000 |
| Cement Concrete Curb and/or Gutter Cement Concrete Sidewalk | 80400 8140000 | 25 | LF SY | \$40 \$85 | \$1,000 |
| | 8140000 | 28 112 | SF | эоэ \$35 | \$2,380 |
| Ramp Detectable Warning | | 112 | | | \$3,920 |
| Signing, Permanent - City Manufactured Signs | 8210070 | 1 | LS | \$40,000 \$350,000 | \$40,000 \$250,000 |
| Pavement Marking (Durable Heat Applied, Inlay Tape, Durable, Paint) | 82200_0 | 145 | LS | \$250,000 | \$250,000 |
| Reinforced Doweled Curb Traffic Island Concrete - 4 Inch Thick | 8910000 | 115 | LF | \$50 \$70 | \$5,750 |
| | 8910050 | 40 | SY CY | \$70 \$150 | \$2,800 |
| Traffic Island Fill - CSTC | | 5 | Сĭ | \$150 subtotal: | \$750 \$306,600 |
| | Legacy ICM Items | | | Subiotal. | \$300,000 |
| | | | | subtotal: | \$0 |
| | | | | Construction Subtotal | \$407,094 |
| | | | | Construction Subtotal | ψτ07,00τ |
| | | | | | |
| Scope Contingency | | 20.0% | | - · · | \$81,419 |
| | | | | Construction Subtotal | \$488,51 |
| Construction Contingency | | 20.0% | | | \$97,703 |
| Construction total | | | | Construction Total | \$586,215 |
| | | | | | |
| Property Purchase | | | | | \$C |
| Geotech | | 0.0% | | | \$0 |
| Surveying | | 3.0% | | | \$17,586 |
| Design & Bid Docs | | 7.0% | | | \$41,035 |
| | | 1.5% | | | \$8,793 |
| | | | | | \$87,932 |
| Admin, Legal, & Permits Construction Mgmt | | 15.0% | | | |
| Admin, Legal, & Permits | | 15.0% | | Project Total | \$741,562 |
| Admin, Legal, & Permits | Unit cost | s from year | | for construction in | |
| Admin, Legal, & Permits Construction Mgmt | | | | | |
| Admin, Legal, & Permits Construction Mgmt <u>For Proc</u> | <u>gram</u> | s from year 2023 | | for construction in 2025 | |
| Admin, Legal, & Permits Construction Mgmt <u>For Proc</u> Preconstru | gram ction | s from year | | for construction in 2025 \$71,460 | |
| Admin, Legal, & Permits Construction Mgmt <u>For Proc</u> Preconstru Property Purc | gram ction hase | s from year 2023 67 0 | | for construction in 2025 \$71,460 \$0 | |
| Admin, Legal, & Permits Construction Mgmt <u>For Proc</u> Preconstru | gram ction hase | s from year 2023 67 | | for construction in 2025 \$71,460 | |
| Admin, Legal, & Permits Construction Mgmt <u>For Proc</u> Preconstru Property Purc | <mark>gram</mark> ction hase Total | s from year 2023 67 0 | | for construction in 2025 \$71,460 \$0 | \$741,562 |

| | Date Prepared: | 6/15/202 | 3 | Prepared by: J. I | |
|--|--------------------------|-----------------|--------------|--|-------------------|
| Project Name: 2nd Ave - Division to Arthur | | | | and the second | oj ID: ??? |
| Description: Add 2' buffer to existing 6' bike lane against north curl | o line. Continue bike la | ne & buffer fro | m Scott | to Arthur. Remove northern | most lane west of |
| Aurthur. Item Description | Bid Item No. | Qty | <u>Unit</u> | Unit Cost | Extension |
| | sion 1 - General Requir | | <u>01111</u> | | |
| SPCC Plan | 1071020 | 1.0 | LS | \$2,000 | \$2,000 |
| Public Liaison Representative | 1070050 | 1.0 | LS | \$10,000 | \$10,00 |
| Vobilization | 1090000 | 1.0 | LS | \$11,000 | \$11,00 |
| Project Tremporary Traffic Control | 1100000 | 1.0 | LS | \$11,000 | \$11,00 |
| | 1100000 | | 20 | subtotal: | \$34,00 |
| | Division 2 - Earthwor | k | | ouhtotoli | |
| | Division 4 - Bases | | | subtotal: | |
| | | | | subtotal: | ; |
| Division 5 | - Surface Treatments | | | | |
| Asphalt for Fog Seal | 5020010 | 15 | TON | \$725 | \$10,87 |
| | | | | subtotal: | \$10,8 |
| | Division 6 - Structure | S | | subtotal: | : |
| Division 7 - Drainage Structures | , Storm Sewers, Sanita | ry Sewers, Wa | ter main | | |
| | | | | subtotal: | 5 |
| | n 8 - Miscellaneous Co | nstruction | | | |
| Signing, Permanent - City Manufactured Signs | 8210070 | 1 | LS | \$2,000 | \$2,00 |
| Pavement Marking (Durable Heat Applied, Inlay Tape, Durable, Paint) | 82200_0 | 1 | LS | \$95,000 | \$95,00 |
| | Legacy ICM Items | | | subtotal: | \$97,00 |
| | | | | subtotal: | \$(|
| | | | | Construction Subtotal | \$141,87 |
| | | | | | |
| Scope Contingency | | 20.0% | | | \$28,37 |
| seepe contingency | | 20.070 | | Construction Subtotal | \$170,2 |
| Construction Contingency | | 20.0% | | | \$34,05 |
| Construction total | | 20.070 | | Construction Total | \$ 204,3 0 |
| | | | | | ¥ -) |
| Property Purchase | | | | | 9 |
| Geotech | | 0.0% | | | 9 |
| Surveying | | 3.0% | | | \$6,12 |
| Design & Bid Docs | | 7.0% | | | \$14,30 |
| Admin, Legal, & Permits | | 1.5% | | | \$3,06 |
| Construction Mgmt | | 15.0% | | | \$30,64 |
| | | 10.070 | | Project Total | \$ 258,4 4 |
| | Unit cos | ts from year | | for construction in | . , |
| | | 2023 | | 2025 | |
| For Progr | am | | | | |
| Preconstruct | | 23 | | \$24,904 | |
| Property Purcha | | 0 | | \$0 | |
| Construction To | | 204 | | \$216,558 | |
| Const me | | 31 | | \$32,484 | |
| | | 258 | | \$273,946 Pro | |

| Date Prepared: | 6/15/2023 | 3 | Prepared by: J. I | Ball |
|------------------------|--|---|---|---|
| | | | \$438,439 Pro | oj ID: ??? |
| r along south curb lir | e. Install Bus | Stop Isla | ands w/ bike lane pass thru. | |
| Bid Item No. | <u>Qty</u> | <u>Unit</u> | <u>Unit Cost</u> | Extension |
| n 1 - General Require | ements | | | |
| 1071020 | 1.0 | LS | \$2,000 | \$2,000 |
| 1070050 | 1.0 | LS | \$10,000 | \$10,000 |
| 1090000 | 1.0 | | \$18,000 | \$18,000 |
| 1100000 | 1.0 | LS | \$18,000 | \$18,000 |
| | | | subtotal: | \$48,000 |
| | | | A 1.5 | . |
| | | | | \$900 |
| | | | | \$1,120 |
| | | | | \$450 |
| 202015_ | 600 | LFI | | \$900 |
| Division (Desse | | | subtotal: | \$3,37 |
| | 4.4 | CV/ | ¢450 | CO 100 |
| 4040030 | 14 | CY | · · · · · · · · · · · · · · · · · · · | \$2,100 |
| Surface Treatmente | . Pavomonto | | Subtotal: | \$2,100 |
| | | | ¢725 | \$10,150 |
| 5020010 | 14 | TON | | \$10,150 \$10,150 |
| Division 6 - Structure | 2 | | Subtotal. | φ10,130 |
| | 5 | | subtotal: | \$0 |
| torm Sewers, Sanitar | v Sewers, Wat | er main | | ψι |
| | <i>y</i> control o, mai | | | \$0 |
| - Miscellaneous Cor | nstruction | | | |
| | | ١F | \$40 | \$3,000 |
| | | | | \$20,145 |
| | | | | \$9,800 |
| | 1 | | | \$30,000 |
| | 1 | | | \$75,000 |
| _ | 510 | | | \$25,500 |
| | •••• | | subtotal: | \$163,445 |
| Legacy ICM Items | | | | |
| | | | subtotal: | \$0 |
| | | | Construction Subtotal | \$227,065 |
| | | | | |
| | 20.0% | | | \$45,413 |
| | 20.076 | | Construction Subtotal | \$ 272,47 |
| | 20.0% | | Construction Subtotal | \$54,496 |
| | 20.0% | | Construction Total | |
| | | | Construction Total | \$326,974 |
| | | | | ¢۵ |
| | 0.00/ | | | \$0 \$0 |
| | | | | \$0 \$0 |
| | | | | \$9,809 \$22,889 |
| | 7.0% | | | \$22,888 \$4,005 |
| | 1.5% | | | \$4,905 \$49,046 |
| | | | | 549 046 |
| | 15.0% | | Drainat Tatal | |
| 11-24 | 15.0% | | Project Total | \$413,622 |
| Unit cost | 15.0% s from year | | for construction in | |
| | 15.0% | | • | |
| | 15.0% ts from year 2023 | | for construction in 2025 | · · · |
| - | 15.0% ts from year 2023 38 | | for construction in 2025 \$39,858 | |
| | 15.0% ts from year 2023 38 0 | | for construction in 2025 \$39,858 \$0 | |
| | 15.0% ts from year 2023 38 | | for construction in 2025 \$39,858 \$0 \$346,592 | |
| | 15.0% ts from year 2023 38 0 | | for construction in 2025 \$39,858 \$0 | \$413,622 |
| | along south curb lin Bid Item No. In 1 - General Require 1071020 1070050 1090000 1090000 1100000 Division 2 - Earthworl 20200_0 2020040 2020130 202015_ Division 4 - Bases 4040030 Surface Treatments & 5020010 Division 6 - Structures torm Sewers, Sanitar 3 - Miscellaneous Core 80400 | Image: solution of the second structure in the second s | along south curb line. Install Bus Stop Isla Bid Item No. Qty Unit n1 - General Requirements 1071020 1.0 LS 1070050 1.0 LS 1070000 1.0 LS 1090000 1.0 LS 1090000 1.0 LS 20200_0 75 LF 2020040 56 SY 2020130 10 EA 202015_ 600 LFI Division 4 - Bases 4040030 14 CY Surface Treatments & Pavements 5020010 14 TON Division 6 - Structures Ton Division 6 - Structures torm Sewers, Sanitary Sewers, Water main 80400 | \$438,439 Processor Bid Item No. Qty Unit Unit Cost n1 - General Requirements 1071020 1.0 LS \$2,000 1070050 1.0 LS \$10,000 100000 1.0 LS \$10,000 1090000 1.0 LS \$18,000 subtotal: \$10000 100 LS \$18,000 Division 2 - Earthwork 20200_0 75 LF \$12 \$20 \$202 \$2020130 10 EA \$45 \$20 \$202 \$202015 |

| Date Prepared: | 6/8/2023 | | Prepared by: J. I | Ball | | |
|---|--|--|---|---|--|--|
| | | | \$962,233 Pro | oj ID: ??? | | |
| ne. 1.5' buffer. 7.5 parkin | g. 10.5+/- lanes | Install | Bus Stop Islands w/ bike lar | e pass thru. | | |
| | - | | - | Extension | | |
| | | | | | | |
| 1071020 | 1.0 | LS | \$2,000 | \$2,000 | | |
| 1070050 | 1.0 | LS | \$10,000 | \$10,000 | | |
| 1090000 | 1.0 | LS | \$41,000 | \$41,000 | | |
| 1100000 | 1.0 | LS | \$41,000 | \$41,000 | | |
| | | | subtotal: | \$94,000 | | |
| | | | | | | |
| | | | | \$1,800 | | |
| | | | | \$2,220 | | |
| | | | | \$900 | | |
| 202015_ | 1,200 | LFI | | \$1,800 | | |
| Division 4 - Bases | | | Subtotal: | \$6,72 | | |
| | 23 | CY | \$150 | \$3,450 | | |
| -0-0030 | 20 | 01 | | \$3,45 | | |
| n 5 - Surface Treatments | & Pavements | | Gubtolui | φ0,10 | | |
| | 15 | TON | \$725 | \$10,875 | | |
| | | | subtotal: | \$10,875 | | |
| Division 6 - Structure | s | | | . , | | |
| | | | subtotal: | \$(| | |
| es, Storm Sewers, Sanita | ry Sewers, Wat | er main | | | | |
| | | | subtotal: | \$(| | |
| | | | A 1.5 | ^ ~~~~~ | | |
| | | | - | \$6,000 | | |
| | | | | \$35,190 | | |
| | 560 | | - | \$19,600 | | |
| | 1 | | • • | \$40,000 | | |
| _ | 1 | | · · · | \$240,000 | | |
| 8910000 | 850 | LF | | \$42,500 | | |
| | | | subtotal: | \$383,290 | | |
| Legacy ICM Items | | | subtotal | \$0 | | |
| | | | | \$498,335 | | |
| | | | Construction Custola | ų+30,000 | | |
| | | | | | | |
| | 20.0% | | | \$99,667 | | |
| | | | Construction Subtotal | \$598,00 | | |
| | 20.0% | | | \$119,600 | | |
| | | | Construction Total | \$717,602 | | |
| | | | | | | |
| | | | | \$C | | |
| | 0.0% | | | \$0 | | |
| | | | | \$21,528 | | |
| | 3.0% | | | | | |
| | 3.0% 7.0% | | | \$50,232 | | |
| | 3.0% 7.0% 1.5% | | | \$50,232 \$10,764 | | |
| | 3.0% 7.0% | | | \$50,232 \$10,764 \$107,640 | | |
| | 3.0% 7.0% 1.5% 15.0% | | Project Total | \$50,232 \$10,764 \$107,640 | | |
| Unit cos | 3.0% 7.0% 1.5% 15.0% | | for construction in | \$50,232 \$10,764 \$107,640 | | |
| | 3.0% 7.0% 1.5% 15.0% | | | \$50,232 \$10,764 \$107,640 | | |
| gram | 3.0% 7.0% 1.5% 15.0% ets from year 2023 | | for construction in 2025 | \$50,232 \$10,764 \$107,640 | | |
| uction | 3.0% 7.0% 1.5% 15.0% | | for construction in 2025 \$87,476 | \$50,232 \$10,764 \$107,640 | | |
| gram uction chase | 3.0% 7.0% 1.5% 15.0% sts from year 2023 83 0 | | for construction in 2025 \$87,476 \$0 | \$50,232 \$10,764 \$107,640 | | |
| <mark>gram</mark> uction chase Total | 3.0% 7.0% 1.5% 15.0% ots from year 2023 83 0 718 | | for construction in 2025 \$87,476 \$0 \$760,659 | \$50,232 \$10,764 | | |
| gram uction chase | 3.0% 7.0% 1.5% 15.0% sts from year 2023 83 0 | | for construction in 2025 \$87,476 \$0 | \$50,232 \$10,764 \$107,640 \$907,767 | | |
| | ne, 1.5' buffer, 7.5 parking <u>Bid Item No.</u> vision 1 - General Requir 1071020 1070050 1090000 1100000 Division 2 - Earthwor 20200_0 2020040 2020130 202015_ Division 4 - Bases 4040030 n 5 - Surface Treatments 5020010 Division 6 - Structure es, Storm Sewers, Sanita sion 8 - Miscellaneous Co 80400_ 8140000 8140040 8140040 8140070 | Division 1 - General Requirements 1.0 1071020 1.0 1070050 1.0 1090000 1.0 1090000 1.0 100000 1.0 100000 1.0 100000 1.0 100000 1.0 100000 1.0 100000 1.0 100000 1.0 100000 1.0 100000 1.0 100000 1.0 100000 1.0 100000 1.0 100000 1.0 111 202010 202015_ 1,200 100000 23 n 5 - Surface Treatments & Pavements 5020010 15 Division 6 - Structures es, Storm Sewers, Sanitary Sewers, Wat sion 8 - Miscellaneous Construction 80400 150 8140000 414 8140000 1 82200_0 1 8910000 850 | Division 1 - General Requirements 1071020 1.0 LS 1070050 1.0 LS 1070050 1.0 LS 1070000 1.0 LS 1090000 1.0 LS 1090000 1.0 LS 1090000 1.0 LS 100000 1.0 LS 1090000 1.0 LS 100000 1.0 LS 1100000 1.0 LS 20200_0 150 LF 2020010 20 EA 202015_ 1,200 LFI Division 4 - Bases 4040030 23 CY n 5 - Surface Treatments & Pavements 5020010 15 TON Division 6 - Structures Division 6 - Structures Es, Storm Sewers, Sanitary Sewers, Water mains cion 8 - Miscellaneous Construction 80400 | \$962,233 Pro Bid Item No. Qty Unit Unit Cost Vision 1 - General Requirements 1071020 1.0 LS \$2,000 1070050 1.0 LS \$10,000 1090000 1.0 LS \$14,000 100000 1.0 LS \$41,000 Subtotal: Division 2 - Earthwork 20200_0 150 LF \$12 20200_0 150 LF \$12 2020130 20 EA \$45 202015_ 1,200 LF \$150 Subtotal: Division 4 - Bases 4040030 23 CY \$150 subtotal: Division 6 - Structures subtotal: bit is 8 Sourd colspan="2">Sourd size Subtotal: Division 6 - Structures subtotal: <td colspan="2" s<="" td=""></td> | | |

| Project Name: Iron Bridge Trail Connection Description: Construct 12' HMA (3"/4") path from Trent Bridge north to Iron Bridge Spur previously built with the Trent/Erie Swale project. Item Description Bid Item No. Division 1 - General Rec SPCC Plan 1071020 Public Liaison Representative 1070050 Mobilization Project Tremporary Traffic Control 1090000 Project Tremporary Traffic Control 20000 Remove Existing Curb and/or Gutter 20200_0 Remove Cement Concrete Sidewalk & Driveway 2020040 Sawcutting Rigid and Flexible Pavement 202015_ Roadway Excavation Including Haul 2030000 Preparation of Untreated Roadway 2030090 Division 4 - Bas Crushed Surfacing Base Course 4040020 CSTC for Sidewalk and Driveways 4040030 Division 5 - Surface Treatment HMA CL 3/8 IN. Light Traffic, 3 INCH THICK 50400_ HMA CL 3/8 IN. Light Traffic, 3 INCH THICK 50400_ | Qty quirements 1.0 1.0 1.0 1.0 1.0 1.0 1.0 2000 300 2 2,020 489 1,467 | Trail col Unit LS LS LS LS LS LS LS LS LS LS LF SY EA LFI CY SY | · · · · · · · · · · · · · · · · · · · | oj ID: ??? north to trail <u>Extension</u> \$2,00 \$5,00 \$22,00 \$11,00 \$40,00 \$6,00 \$6,00 \$6,00 \$6,00 \$3,03 \$14,67 |
|--|---|--|--|--|
| Division 1 - General Reg SPCC Plan 1071020 Public Liaison Representative 1070050 Mobilization 1090000 Project Tremporary Traffic Control Division 2 - Earthy Clearing & Grubbing 2010000 Remove Existing Curb and/or Gutter 20200_0 Remove Cement Concrete Sidewalk & Driveway 2020140 Sawcutting Rigid and Flexible Pavement 202015_ Roadway Excavation Including Haul 2030000 Preparation of Untreated Roadway 2030000 Division 4 - Bas Division 5 - Surface Treatment MA CL 3/8 IN. Light Traffic, 3 INCH THICK 50400 | Qty quirements 1.0 1.0 1.0 1.0 1.0 0 0 0 2 2,020 489 1,467 | Unit LS LS LS LS LS LS LS LS LS LF SY EA LFI CY | Unit Cost \$2,000 \$5,000 \$22,000 \$11,000 \$11,000 \$12 \$8,000 \$12 \$20 \$45 \$20 \$45 \$1.50 \$30 | Extension \$2,00 \$5,00 \$22,00 \$11,00 \$40,00 \$40,00 \$6,00 \$6,00 \$6,00 \$3,03 |
| Item DescriptionBid Item No.Division 1 - General RegSPCC PlanPublic Liaison Representative00000Project Tremporary Traffic Control100000Project Tremporary Traffic ControlDivision 2 - EarthyClearing & GrubbingRemove Existing Curb and/or Gutter20200_0Remove Cement Concrete Sidewalk & Driveway2020040Sawcutting Rigid and Flexible Pavement202015_Roadway Excavation Including HaulPreparation of Untreated Roadway2030000Preparation of Untreated RoadwayCrushed Surfacing Base Course4040020CSTC for Sidewalk and Driveways4040020MA CL 3/8 IN. Light Traffic, 3 INCH THICK50400 | quirements 1.0 1.0 1.0 1.0 work 1 500 300 2 2,020 489 1,467 ses | LS LS LS LS LS LF SY EA LFI CY | \$2,000 \$5,000 \$22,000 \$11,000 subtotal: \$8,000 \$12 \$20 \$45 \$1.50 \$30 | \$2,00 \$5,00 \$22,00 \$11,00 \$40,00 \$8,00 \$6,00 \$6,00 \$6,00 \$9 \$3,03 |
| Division 1 - General Reconstruction SPCC Plan Public Liaison Representative Mobilization Project Tremporary Traffic Control Division 2 - Earthwork Clearing & Grubbing Remove Existing Curb and/or Gutter Remove Cement Concrete Sidewalk & Driveway Sawcutting Rigid and Flexible Pavement Roadway Excavation Including Haul Preparation of Untreated Roadway Curshed Surfacing Base Course Crushed Surfacing Base Course Curshed Surfacing Base Course Surface Treatment Surface Treatment Surface Treatment Surface Treatment Surface Treatment Surface Treatment Surface Treatment | quirements 1.0 1.0 1.0 1.0 work 1 500 300 2 2,020 489 1,467 ses | LS LS LS LS LS LF SY EA LFI CY | \$2,000 \$5,000 \$22,000 \$11,000 subtotal: \$8,000 \$12 \$20 \$45 \$1.50 \$30 | \$2,00 \$5,00 \$22,00 \$11,00 \$40,00 \$8,00 \$6,00 \$6,00 \$6,00 \$9 \$3,03 |
| SPCC Plan 1071020 Public Liaison Representative 1070050 Aobilization 1090000 Project Tremporary Traffic Control 1100000 Division 2 - Earthw 2010000 Remove Existing Curb and/or Gutter 20200_0 Remove Cement Concrete Sidewalk & Driveway 2020040 Sawcutting Curb 2020130 Sawcutting Rigid and Flexible Pavement 202015_ Roadway Excavation Including Haul 2030000 Preparation of Untreated Roadway 2030090 Crushed Surfacing Base Course 4040020 CSTC for Sidewalk and Driveways 4040030 Division 5 - Surface Treatment 50400 | 1.0 1.0 1.0 1.0 1.0 work 1 500 300 2 2,020 489 1,467 | LS LS LS LF SY EA LFI CY | \$5,000 \$22,000 \$11,000 subtotal: \$8,000 \$12 \$20 \$45 \$1.50 \$30 | \$5,00 \$22,00 \$11,00 \$40,00 \$8,00 \$6,00 \$6,00 \$9 \$3,03 |
| Public Liaison Representative 1070050 Mobilization 1090000 Project Tremporary Traffic Control 1100000 Division 2 - Earthy 2010000 Remove Existing Curb and/or Gutter 20200_0 Remove Cement Concrete Sidewalk & Driveway 2020040 Sawcutting Curb 2020130 Sawcutting Rigid and Flexible Pavement 2030000 Preparation of Untreated Roadway 2030000 Preparation of Untreated Roadway 2030000 Crushed Surfacing Base Course 4040020 CSTC for Sidewalk and Driveways 4040030 Division 5 - Surface Treatment 50400 | 1.0 1.0 1.0 work 1 500 300 2 2,020 489 1,467 | LS LS LS LF SY EA LFI CY | \$5,000 \$22,000 \$11,000 subtotal: \$8,000 \$12 \$20 \$45 \$1.50 \$30 | \$5,00 \$22,00 \$11,00 \$40,00 \$8,00 \$6,00 \$6,00 \$9 \$3,03 |
| Mobilization 1090000 Project Tremporary Traffic Control 1100000 Division 2 - Earthw 2010000 Remove Existing Curb and/or Gutter 20200_0 Remove Cement Concrete Sidewalk & Driveway 2020040 Sawcutting Curb 2020130 Sawcutting Rigid and Flexible Pavement 202015_ Roadway Excavation Including Haul 2030000 Preparation of Untreated Roadway 2030000 Crushed Surfacing Base Course 4040020 CSTC for Sidewalk and Driveways 4040030 Division 5 - Surface Treatment 50400 | 1.0 1.0 work 1 500 300 2 2,020 489 1,467 | LS LS LF SY EA LFI CY | \$22,000 \$11,000 subtotal: \$8,000 \$12 \$20 \$45 \$45 \$1.50 \$30 | \$22,00 \$11,00 \$40,00 \$8,00 \$6,00 \$6,00 \$9 \$3,03 |
| Project Tremporary Traffic Control 1100000 Division 2 - Earthy 2010000 Remove Existing Curb and/or Gutter 20200_0 Remove Cement Concrete Sidewalk & Driveway 2020040 Sawcutting Curb 2020130 Sawcutting Rigid and Flexible Pavement 202015_ Roadway Excavation Including Haul 2030000 Preparation of Untreated Roadway 2030090 Crushed Surfacing Base Course 4040020 CSTC for Sidewalk and Driveways 4040030 Division 5 - Surface Treatment 50400 | 1.0 work 1 500 300 2 2,020 489 1,467 | LS LF SY EA LFI CY | \$11,000 subtotal: \$8,000 \$12 \$20 \$45 \$1.50 \$30 | \$11,00 \$40,00 \$8,00 \$6,00 \$6,00 \$6,00 \$3,03 |
| Division 2 - Earthy Clearing & Grubbing 2010000 Remove Existing Curb and/or Gutter 20200_0 Remove Cement Concrete Sidewalk & Driveway 2020040 Sawcutting Curb 2020130 Sawcutting Rigid and Flexible Pavement 202015_ Roadway Excavation Including Haul 2030000 Preparation of Untreated Roadway 2030090 Crushed Surfacing Base Course 4040020 CSTC for Sidewalk and Driveways 4040030 Division 5 - Surface Treatment 50400 | work 1 500 300 2 2,020 489 1,467 | LS LF SY EA LFI CY | subtotal: \$8,000 \$12 \$20 \$45 \$1.50 \$30 | \$40,00 \$8,00 \$6,00 \$6,00 \$3,03 |
| Clearing & Grubbing 2010000 Remove Existing Curb and/or Gutter 20200_0 Remove Cement Concrete Sidewalk & Driveway 2020040 Sawcutting Curb 2020130 Sawcutting Rigid and Flexible Pavement 202015_ Roadway Excavation Including Haul 2030000 Preparation of Untreated Roadway 2030090 Division 4 - Bas 4040020 Crushed Surfacing Base Course 4040020 CSTC for Sidewalk and Driveways 4040030 Division 5 - Surface Treatment 50400 | 1 500 300 2 2,020 489 1,467 | LF SY EA LFI CY | \$8,000 \$12 \$20 \$45 \$1.50 \$30 | \$8,00 \$6,00 \$6,00 \$9 \$3,03 |
| Clearing & Grubbing 2010000 Remove Existing Curb and/or Gutter 20200_0 Remove Cement Concrete Sidewalk & Driveway 2020040 Sawcutting Curb 2020130 Sawcutting Rigid and Flexible Pavement 202015_ Roadway Excavation Including Haul 2030000 Preparation of Untreated Roadway 2030090 Division 4 - Bas 4040020 Crushed Surfacing Base Course 4040020 CSTC for Sidewalk and Driveways 4040030 Division 5 - Surface Treatment 50400 | 1 500 300 2 2,020 489 1,467 | LF SY EA LFI CY | \$12 \$20 \$45 \$1.50 \$30 | \$6,00 \$6,00 \$9 \$3,03 |
| Remove Existing Curb and/or Gutter 20200_0 Remove Cement Concrete Sidewalk & Driveway 2020040 Sawcutting Curb 2020130 Sawcutting Rigid and Flexible Pavement 202015_ Roadway Excavation Including Haul 2030000 Preparation of Untreated Roadway 2030090 Division 4 - Bas 4040020 Crushed Surfacing Base Course 4040020 CSTC for Sidewalk and Driveways 4040030 Division 5 - Surface Treatment 50400 | 300 2 2,020 489 1,467 | LF SY EA LFI CY | \$12 \$20 \$45 \$1.50 \$30 | \$6,00 \$6,00 \$9 \$3,03 |
| Remove Cement Concrete Sidewalk & Driveway 2020040 Gawcutting Curb 2020130 Gawcutting Rigid and Flexible Pavement 202015_ Roadway Excavation Including Haul 2030000 Preparation of Untreated Roadway 2030000 Crushed Surfacing Base Course 4040020 CSTC for Sidewalk and Driveways 4040030 Division 5 - Surface Treatment 50400 | 2 2,020 489 1,467 | EA LFI CY | \$45 \$1.50 \$30 | \$6,00 \$9 \$3,03 |
| Bawcutting Curb 2020130 Bawcutting Rigid and Flexible Pavement 202015_ Boadway Excavation Including Haul 2030000 Preparation of Untreated Roadway 2030090 Brushed Surfacing Base Course 4040020 Crushed Surfacing Base Course 4040020 CSTC for Sidewalk and Driveways 4040030 Division 5 - Surface Treatment 50400 | 2,020 489 1,467 | LFI CY | \$1.50 \$30 | \$ \$3,0 |
| Roadway Excavation Including Haul 2030000 Preparation of Untreated Roadway 2030090 Division 4 - Bas 040020 Crushed Surfacing Base Course 4040020 CSTC for Sidewalk and Driveways 4040030 Division 5 - Surface Treatment 1000000000000000000000000000000000000 | 489 1,467 | CY | \$30 | |
| Preparation of Untreated Roadway 2030090 Division 4 - Bas Crushed Surfacing Base Course 4040020 CSTC for Sidewalk and Driveways 4040030 Division 5 - Surface Treatmen IMA CL 3/8 IN. Light Traffic, 3 INCH THICK 50400_ | 1,467 s es | | | \$14,6 |
| Division 4 - Bas Crushed Surfacing Base Course 4040020 CSTC for Sidewalk and Driveways 4040030 Division 5 - Surface Treatment IMA CL 3/8 IN. Light Traffic, 3 INCH THICK 50400 | ies | SY | \$3 | |
| Crushed Surfacing Base Course 4040020 CSTC for Sidewalk and Driveways 4040030 Division 5 - Surface Treatmen IMA CL 3/8 IN. Light Traffic, 3 INCH THICK 50400_ | | | | \$4,40 |
| Crushed Surfacing Base Course 4040020 STC for Sidewalk and Driveways 4040030 Division 5 - Surface Treatmen IMA CL 3/8 IN. Light Traffic, 3 INCH THICK 50400_ | | | subtotal: | \$42,1 |
| STC for Sidewalk and Driveways 4040030 Division 5 - Surface Treatmen IMA CL 3/8 IN. Light Traffic, 3 INCH THICK 50400 | 195 | | | |
| Division 5 - Surface Treatmen IMA CL 3/8 IN. Light Traffic, 3 INCH THICK 50400 | 7 | CY | \$75 | \$14,62 |
| IMA CL 3/8 IN. Light Traffic, 3 INCH THICK50400 | 1 | CY | \$150 | \$1,05 |
| IMA CL 3/8 IN. Light Traffic, 3 INCH THICK 50400 | | | subtotal: | \$15,6 |
| • | | _ | | |
| INA for Dovement Transition CL 1/2 IN DC 2 in Thisk | 1,467 | SY | \$18 | \$26,40 |
| HMA for Pavement Transition, CL 1/2 IN. PG, 2 In. Thick504016_ | 12 | SY | \$100 | \$1,20 |
| Soil Residual Herbicide 5040300 | 1,467 | SY | \$1 | \$1,46 |
| | | | subtotal: | \$29,0 |
| Division 6 - Struct | tures | | oubtotoly | |
| Division 7 - Drainage Structures, Storm Sewers, Sar | nitary Sowars Wa | or main | subtotal: | |
| Division / - Drainage Otructures, Otorin Dewers, Oa | intary dewers, wa | | subtotal: | |
| Division 8 - Miscellaneous | Construction | | Subtotui. | |
| andscaping 8020000 | 1 | LS | \$10,000 | \$10,00 |
| Fopsoil Type A, 2 Inch Thick 8020010 | 1,103 | SY | \$6 | \$6,61 |
| Hydroseeding 8020260 | 1,011 | SY | \$3 | \$3,03 |
| Sod Installation 8020300 | 92 | SY | \$25 | \$2,30 |
| rrigation System - new and modify 8030000 | 1 | LS | \$5,000 | \$5,00 |
| Cement Concrete Curb and/or Gutter 80400_ | 500 | LF | \$40 | \$20,00 |
| Cement Concrete Driveway 8060000 | 48 | SY | \$110 | \$5,2 |
| Chain Link Fence Type 3 - 6' 81200 | 500 | LF | \$125 | \$62,50 |
| Cement Concrete Sidewalk 8140000 | 25 | SY | \$100 | \$2,5 |
| Ramp Detectable Warning 8140040 | 8 | SF | \$35 | \$2 |
| Signing, Permanent - City Manufactured Signs 8210070 | 1 | LS | \$2,500 | \$2,5 |
| Bollards - Removable | 6 | | \$1,000 | \$6,0 |
| | | | subtotal: | \$126,0 ⁻ |
| Legacy ICM Iter | ns | | | |
| | | | subtotal: | |
| | | | Construction Subtotal | \$252,9 |
| | | | | |
| Scope Contingency | 20.0% | | | \$50,59 |
| | 20.070 | | Construction Subtotal | \$ 303 ,5 |
| Construction Contingency | 20.0% | | | \$60,7 |
| Construction total | 20.070 | | Construction Total | \$364,24 |
| | | | | <i>••••</i> ,- |
| Property Purchase | | | | \$40,0 |
| Geotech | 0.0% | | | φ10,0 |
| Surveying | 3.0% | | | \$10,9 |
| Design & Bid Docs | 7.0% | | | \$25,4 |
| Admin, Legal, & Permits | 1.5% | | | \$5,4 |
| Construction Mgmt | 15.0% | | | \$54,6 |
| | | | Project Total | \$500,7 |
| Unit | costs from year | | for construction in | |
| | 2023 | | 2024 | |
| For Program | | | | |
| Preconstruction | 42 | | \$43,145 | |
| Property Purchase | 40 | | \$41,200 | |
| Construction Total | 364 | | \$375,175 | |
| Const mgmt | 55 | | \$56,276 | |
| | 501 | | \$515,797 Pro | ject Cost |

| | Date Prepared: | 5/23/202 | 3 | Prepared by: J. E | |
|--|--|----------------|-------------|-------------------------------|--------------------------------|
| Project Name: Maple Street Pathway | | | | - | oj ID: ??? |
| Description: Remove concrete stairs. Construct 8-12' ADA | | vy overpass tr | aversing | g north along Maple St. cutsl | ope to connection |
| vith Ash St. sidewalk north of the College & Ash Intersect | | | | | |
| Item Description | Bid Item No. | <u>Qty</u> | <u>Unit</u> | <u>Unit Cost</u> | <u>Extension</u> |
| | Division 1 - General Require | | | AA A A A | ^ |
| SPCC Plan | 1071020 | 1.0 | LS | \$2,000 | \$2,00 |
| Mobilization | 1090000 | 1.0 | LS | \$30,000 | \$30,00 |
| Project Tremporary Traffic Control | 1100000 | 1.0 | LS | \$30,000 | \$30,00 |
| | | | | subtotal: | \$62,00 |
| | Division 2 - Earthworl | K | | A / A A A | * / * * * |
| Clearing & Grubbing | 2010000 | 1 | LS | \$10,000 | \$10,00 |
| Remove Existing Curb and/or Gutter | 20200_0 | 360 | LF | \$12 | \$4,32 |
| Remove Cement Concrete Sidewalk & Driveway | 2020040 | 334 | SY | \$30 | \$10,02 |
| Roadway Excavation Including Haul | 2030000 | 700 | CY | \$30 | \$21,00 |
| Common Borrow Incl. Haul | 2030020 | 675 | CY | \$35 | \$23,62 |
| reparation of Untreated Roadway | 2030090 | 756 | SY | \$3 | \$2,26 |
| | | | | subtotal: | \$71,23 |
| | Division 4 - Bases | | | | |
| rushed Surfacing Base Course | 4040020 | 84 | CY | \$75 | \$6,30 |
| | | | | subtotal: | \$6,30 |
| | Division 5 - Surface Treatments 8 | A Pavements | | | |
| HMA CL 3/8 IN. Light Traffic, 3 INCH THICK | 50400 | 756 | SY | \$20 | \$15,12 |
| Soil Residual Herbicide | 5040300 | 756 | SY | \$1 | \$75 |
| | | | | subtotal: | \$15,87 |
| | Division 6 - Structures | S | | | |
| Cem Conc Curb Wall | 6020080 | 500 | LF | \$100 | \$50,00 |
| | | | | subtotal: | \$50,00 |
| Division 7 - Drainage S | Structures, Storm Sewers, Sanitar | y Sewers, Wa | ter main | s & Conduits | |
| | | | | subtotal: | \$ |
| | Division 8 - Miscellaneous Cor | nstruction | | | |
| Fopsoil Type A, 2 Inch Thick | 8020010 | 1,389 | SY | \$6 | \$8,33 |
| Hydroseeding | 8020260 | 1,389 | SY | \$5 | \$6,94 |
| Ilumination System (Street Lights) | 8200040 | 5 | EA | \$10,000 | \$50,00 |
| Signing, Permanent - City Manufactured Signs | 8210070 | 1 | LS | \$5,000 | \$5,00 |
| Steel Pipe Railing | 8900020 | 425 | LF | \$200 | \$85,00 |
| | | | | subtotal: | \$155,27 |
| | Legacy ICM Items | | | | |
| | | | | subtotal: | \$(|
| | | | | Construction Subtotal | \$360,688 |
| | | | | | |
| Scope Contingency | | 25.0% | | | \$90,17 |
| | | | | Construction Subtotal | \$450,80 |
| Construction Contingency | | 25.0% | | • | \$112,71 |
| Construction total | | | | Construction Total | \$563,57 |
| Property Purchase | | | | | \$ |
| Geotech | | 0.0% | | | \$ |
| Surveying | | 3.0% | | | پ \$16,90 |
| | | 7.0% | | | \$39,45 |
| Design & Bid Docs | | | | | |
| Admin, Legal, & Permits | | 1.5% | | | \$8,45 \$84,52 |
| Construction Mgmt | | 15.0% | | Project Total | \$84,53 \$712.92 |
| | | | | Project Lotal | \$/12.9 |

| | | Project Total | \$712,922 |
|--------------------|----------------------|---------------------|-----------|
| | Unit costs from year | for construction in | |
| | 2023 | 2025 | |
| For Program | | | |
| Preconstruction | 65 | \$68,700 | |
| Property Purchase | 0 | \$0 | |
| Construction Total | 564 | \$597,390 | |
| Const mgmt | 85 | \$89,608 | |
| | 713 | \$755,698 Project | Cost |
| | | | |

| | Date Prepared: | 6/7/2023 | | Prepared by: J. | Ball |
|--|----------------------------------|-----------------|-------------|--------------------------------------|----------------------------|
| Project Name: Perry & 14th Stairs & Sidewalk - 18th to 14th | | | | | oj ID: ??? |
| Description: Remove & Replace concrete stairs and walk in 4th on both sides of Perry. ADA updates. | 14th Ave ROW from 14th Cul de | e Sac east to P | erry St. | Infill sidewalk & driveway in | nstall from 18th to |
| Item Description | Bid Item No. | <u>Qty</u> | <u>Unit</u> | Unit Cost | Extension |
| | Division 1 - General Require | ements | | | |
| SPCC Plan | 1071020 | 1.0 | LS | \$2,000 | \$2,00 |
| Reference and Reestablish Survey Monument | 1070060 | 2 | EA | \$1,000 | \$2,00 |
| Aobilization | 1090000 | 1.0 | LS | \$22,000 | \$22,00 |
| Project Tremporary Traffic Control | 1100000 | 1.0 | LS | \$22,000 | \$22,00 |
| | | | | subtotal: | \$48,00 |
| Neering & Crubbing | Division 2 - Earthwor 2010000 | k _1 | 10 | ¢5,000 | ¢5.00 |
| Clearing & Grubbing | | 1 | LS | \$5,000 | \$5,00 |
| Remove Trees (class I,II,III,IV) | 20100 | 3 | EA | \$1,000 | \$3,00 |
| ree Pruning | 2010080 | 10 | EA | \$450 | \$4,5 |
| Remove Existing Curb and/or Gutter | 20200_0 | 200 | LF | \$12 | \$2,40 |
| Remove Cement Concrete Sidewalk & Driveway | 2020040 | 267 | SY | \$30 | \$8,0 |
| Sawcutting Curb | 2020130 | 20 | EA | \$45 | \$90 |
| Sawcutting Rigid and Flexible Pavement | 202015_ | 400 | LFI | \$1.50 | \$60 |
| Roadway Excavation Including Haul | 2030000 | 138 | CY | \$30 | \$4,1 |
| | Division 4 - Bases | | | subtotal: | \$28,5 |
| CSTC for Sidewalk and Driveways | 4040030 | 54 | CY | \$150 | \$8,10 |
| So to for oldewalk and Driveways | 4040030 | 54 | 01 | subtotal: | \$8,1 |
| Di | ivision 5 - Surface Treatments & | & Pavements | | | |
| | Division 6 - Structure | <u>s</u> | | subtotal: | |
| Cem Conc Curb Wall | 6020080 | 50 | LF | \$100 | \$5,00 |
| Reinforced Concrete Retaining Wall | 6110000 | 150 | SF | \$75 | \$11,25 |
| | 0110000 | 100 | 01 | subtotal: | \$16,2 |
| Division 7 - Drainage Str | uctures, Storm Sewers, Sanita | ry Sewers, Wat | ter main | | |
| | Division 8 - Miscellaneous Cor | nstruction | | subtotal: | |
| andscaping | 8020000 | 1 | LS | \$1,500 | \$1,50 |
| Fopsoil Type A, 2 Inch Thick | 8020010 | 1,358 | SY | \$6 | \$8,14 |
| lydroseeding | 8020260 | 933 | SY | \$5 | \$4,60 |
| , , | | | | | |
| Sod Installation | 8020300 | 425 | SY | \$25 | \$10,62 |
| rrigation System - new and modify | 8030000 | 1 | LS | \$5,000 | \$5,00 |
| Cement Concrete Curb and/or Gutter | 80400 | 200 | LF | \$40 | \$8,00 |
| Cement Concrete Driveway | 8060000 | 71 | SY | \$85 | \$6,03 |
| Cement Concrete Driveway Transition | 8060020 | 15 | SY | \$90 | \$1,3 |
| Cement Concrete Sidewalk | 8140000 | 817 | SY | \$85 | \$69,44 |
| Ramp Detectable Warning | 8140040 | 40 | SF | \$35 | \$1,4 |
| Signing, Permanent - City Manufactured Signs | 8210070 | 1 | LS | \$0 | |
| Steel Pipe Railing | 8900020 | 100 | LF | \$200 | \$20,0 |
| Cement Concrete Stairways | 8970001 | 200 | SF | \$135 | \$27,0 |
| | 0970001 | | LF | | |
| Bike Runnels | | 30 | LF | \$65 subtotal: | \$1,95 \$165,1 1 |
| | Legacy ICM Items | | | | |
| | | | | subtotal: Construction Subtotal | \$266,0° |
| | | | | | • • • • • |
| Scope Contingency | | 20.0% | | | \$53,20 |
| | | _0.0,0 | | Construction Subtotal | \$319,2 |
| Construction Contingency | | 25.0% | | | \$79,80 |
| Construction total | | 20.070 | | Construction Total | \$399,02 |
| Property Purchase | | | | | 5 |
| | | 0.00/ | | | |
| Geotech | | 0.0% | | | ¢11.0 |
| | | 3.0% | | | \$11,9 ⁻ |
| Design & Bid Docs | | 7.0% | | | \$27,9 |
| Admin, Legal, & Permits | | 1.5% | | | \$5,9 |
| Construction Mgmt | | 15.0% | | Desire (T. C. | \$59,8 |
| | Linit con | ts from year | | Project Total for construction in | \$504,70 |
| | | 2023 | | 2025 | |
| Ex | or Program | 2020 | | | |
| | | 40 | | #40.044 | |
| | construction | 46 | | \$48,641 | |
| • | y Purchase | 0 | | \$0 | |
| | uction Total | 399 | | \$422,969 | |
| | Const mgmt | 60 | | \$63,445 | |
| l | Jonst mymt | 00 | | φου, πο | |
| C | | 505 | | \$535,055 Pro | oject Cost |

| | | | \$334,528 Pro | oj ID: ??? |
|-------------------------|--|--|--|--------------------------------|
| | | | | |
| against curbline. Add (| Green striping | across ir | ntersections & driveways. | |
| | | | | Extension |
| | | | | |
| | | LS | \$2,000 | \$2,000 |
| | | | | \$10,000 |
| | 1 | | | \$1,000 |
| | 1.0 | | · · · | \$14,000 |
| | | | | \$14,000 |
| | | | subtotal: | \$41,000 |
| Division 2 - Earthwor | k | | subtotal | \$ |
| Division 4 - Bases | | | Subtotal. | Ψ |
| | | | subtotal: | \$ |
| | | TON | * === | |
| 5020010 | 10 | ION | | \$7,250 |
| Division 6 Structure | <u> </u> | | subtotal: | \$7,25 |
| Division 6 - Structure | 5 | | subtotal: | \$ |
| s, Storm Sewers, Sanita | ry Sewers, Wa | ter mains | | |
| on 8 - Miscellaneous Co | nstruction | | subtotal: | \$ |
| | 1 | 15 | \$15,000 | \$15,000 |
| | 1 | | | \$110,000 |
| 02200_0 | · | | subtotal: | \$125,000 |
| Legacy ICM Items | | | | |
| | | | | \$0 |
| | | | Construction Subtotal | \$173,250 |
| | | | | |
| | 20.0% | | | \$34,650 |
| | | | Construction Subtotal | \$207,90 |
| | 20.0% | | | \$41,580 |
| | | | Construction Total | \$249,480 |
| | | | | \$C |
| | 0.0% | | | \$C \$C |
| | | | | əu \$7,484 |
| | | | | |
| | | | | \$17,464 |
| | | | | \$3,742 |
| | 15.0% | | Project Total | \$37,422 \$315 502 |
| L Init cos | ts from vear | | | \$315,592 |
| | • | | | |
| ram | | | | |
| | 29 | | \$30.412 | |
| | - | | | |
| | • | | \$264,449 | |
| otal | 749 | | | |
| otal gmt | 249 37 | | \$39,667 | |
| | Bid Item No. ision 1 - General Require 1071020 1070050 1070060 1090000 1100000 Division 2 - Earthwor Division 4 - Bases 5 - Surface Treatments & 5020010 Division 6 - Structure s, Storm Sewers, Sanitat on 8 - Miscellaneous Con 8210070 82200_0 Legacy ICM Items | Bid Item No. Qtv ision 1 - General Requirements 1071020 1.0 1070050 1.0 1070060 1 1090000 1.0 1090000 1.0 1090000 1.0 1090000 1.0 Division 2 - Earthwork Division 4 - Bases 5 5 - Surface Treatments & Pavements 5020010 10 10 Division 6 - Structures s, Storm Sewers, Sanitary Sewers, Wa 1 on 8 - Miscellaneous Construction 8210070 1 20.0% 20.0% 20.0% 20.0% 20.0% 20.0% 20.0% 20.0% 20.0% 20.0% 20.0% 20.0% 20.0% 20.0% 20.0% 20.0% 20.0% 20.0% 20.0% 20.0% 20.0% 20.0% 20.0% 20.0% 20.0% 20.0% 20.0% 20.0% 1.5% 15.0% 15.0% | Bid Item No. Qty Unit ision 1 - General Requirements 1071020 1.0 LS 1070050 1.0 LS 1070060 1 EA 1090000 1.0 LS 1070050 1.0 LS 1070060 1 EA 1090000 1.0 LS 1100000 1.0 LS Division 2 - Earthwork Iso Division 4 - Bases 5 5 - Surface Treatments & Pavements 5020010 10 TON Division 6 - Structures s, Storm Sewers, Sanitary Sewers, Water mains on 8 - Miscellaneous Construction 8210070 1 82200_0 1 LS 20.0% 20.0% 20.0% 20.0% 20.0% 1.5% 15.0% 1.5% 15.0% 1.5% 15.0% 1.5% | ision 1 - General Requirements |

| Date Prepared: | 6/1/2023 | | Prepared by: J. I | Ball |
|---------------------------------------|--|---|--|---|
| | | | \$335,725 Pro | oj ID: ??? |
| side from 5th to 1st. Add | Green striping | across | intersections. | |
| Bid Item No. | Qty | <u>Unit</u> | Unit Cost | Extension |
| ivision 1 - General Require | ments | | | |
| 1071020 | 1.0 | LS | \$2,000 | \$2,000 |
| 1070050 | 1.0 | LS | \$10,000 | \$10,000 |
| 1090000 | 1.0 | LS | \$14,000 | \$14,000 |
| 1100000 | 1.0 | LS | \$14,000 | \$14,000 |
| Division 2 - Earthwork | , | | subtotal: | \$40,000 |
| | | IF | \$12 | \$180 |
| — | | | | \$220 |
| | | | | \$90 |
| | | | | \$180 |
| 202010_ | 120 | 2.1.1 | | \$67 |
| Division 4 - Bases | | | | |
| 4040030 | 3 | CY | \$150 | \$450 |
| | | | subtotal: | \$450 |
| | | TON | ¢тог | #0.505 |
| 5020010 | 9 | TON | | \$6,525 \$6,525 |
| Division 6 - Structures | | | Subtotal: | \$6,525 |
| | \$ | | subtotal: | \$0 |
| es, Storm Sewers, Sanitar | y Sewers, Wat | er main | | |
| | | | subtotal: | \$0 |
| | | | • • • | • |
| | | | | \$600 |
| | | | | \$4,165 |
| | 56 | | | \$1,960 |
| | 1 | | | \$20,000 |
| | 1 | | | \$95,000 |
| 8910000 | 90 | LF | | \$4,500 |
| Legacy ICM Items | | | Subtotal: | \$126,225 |
| Loguoy rom noms | | | subtotal: | \$0 |
| | | | Construction Subtotal | \$173,870 |
| | | | | |
| | | | | |
| | 20.0% | | | \$34.774 |
| | 20.0% | | Construction Subtotal | |
| | | | Construction Subtotal | \$208,64 |
| | 20.0% 20.0% | | Construction Subtotal | \$208,64 \$41,729 |
| | | | · | \$208,64 \$41,729 \$250,37 3 |
| | 20.0% | | · | \$208,64 \$41,729 \$250,373 \$0 |
| | 20.0% | | · | \$208,64 \$41,729 \$250,373 \$0 \$0 |
| | 20.0% 0.0% 3.0% | | · | \$208,64 \$41,729 \$250,373 \$0 \$0 \$7,511 |
| | 20.0% 0.0% 3.0% 7.0% | | · | \$208,64 \$41,729 \$250,373 \$0 \$7,511 \$17,526 |
| | 20.0% 0.0% 3.0% 7.0% 1.5% | | · | \$208,64 \$41,729 \$250,373 \$0 \$0 \$7,511 \$17,526 \$3,756 |
| | 20.0% 0.0% 3.0% 7.0% | | Construction Total | \$34,774 \$208,64 4 \$41,729 \$250,373 \$0 \$0 \$7,511 \$17,526 \$3,756 \$37,556 |
| | 20.0% 0.0% 3.0% 7.0% 1.5% 15.0% | | Construction Total Project Total | \$208,64 \$41,729 \$250,373 \$0 \$0 \$7,511 \$17,526 \$3,756 |
| Unit cost | 20.0% 0.0% 3.0% 7.0% 1.5% 15.0% | | Construction Total Project Total for construction in | \$208,64 \$41,729 \$250,373 \$0 \$7,511 \$17,526 \$3,756 \$37,556 |
| | 20.0% 0.0% 3.0% 7.0% 1.5% 15.0% | | Construction Total Project Total | \$208,64 \$41,729 \$250,373 \$0 \$7,511 \$17,526 \$3,756 \$37,556 |
| ogram | 20.0% 0.0% 3.0% 7.0% 1.5% 15.0% s from year 2023 | | Construction Total Project Total for construction in 2025 | \$208,64 \$41,729 \$250,373 \$0 \$7,511 \$17,526 \$3,756 \$37,556 |
| ogram ouction | 20.0% 0.0% 3.0% 7.0% 1.5% 15.0% s from year 2023 29 | | Construction Total Project Total for construction in 2025 \$30,520 | \$208,64 \$41,729 \$250,373 \$0 \$7,511 \$17,526 \$3,756 \$37,556 |
| ogram ruction rchase | 20.0% 0.0% 3.0% 7.0% 1.5% 15.0% s from year 2023 29 0 | | Construction Total Project Total for construction in 2025 \$30,520 \$0 | \$208,64 \$41,729 \$250,373 \$0 \$7,511 \$17,526 \$3,756 \$37,556 |
| ogram ruction rchase n Total | 20.0% 0.0% 3.0% 7.0% 1.5% 15.0% s from year 2023 29 0 250 | | Construction Total Project Total for construction in 2025 \$30,520 \$0 \$0 \$265,395 | \$208,64 \$41,729 \$250,373 \$0 \$7,511 \$17,526 \$3,756 \$37,556 |
| ogram ruction rchase | 20.0% 0.0% 3.0% 7.0% 1.5% 15.0% s from year 2023 29 0 | | Construction Total Project Total for construction in 2025 \$30,520 \$0 | \$208,64 \$41,729 \$250,373 \$0 \$0 \$7,511 \$17,526 \$37,556 \$316,722 |
| | side from 5th to 1st. Add <u>Bid Item No.</u> ivision 1 - General Require 1071020 1070050 1090000 1100000 Division 2 - Earthwork 20200_0 2020040 2020130 202015_ Division 4 - Bases 4040030 n 5 - Surface Treatments & 5020010 Division 6 - Structures | Bid Item No. Qty ivision 1 - General Requirements 1071020 1.0 1070050 1.0 1090000 1.0 1090000 1.0 1100000 1.0 Division 2 - Earthwork 20200_0 15 2020040 11 2020130 2 202015_ 120 Division 4 - Bases 4040030 3 n 5 - Surface Treatments & Pavements 5020010 9 Division 6 - Structures 15 814000 49 8140040 56 8210070 1 82200_0 1 8910000 90 | Bid Item No. Qty Unit ivision 1 - General Requirements 1071020 1.0 LS 1070050 1.0 LS 1070050 1.0 LS 1090000 1.0 LS 1090000 1.0 LS 100000 1.0 LS 1090000 1.0 LS 20200_0 15 LF 2020010 2 EA 202015_ 120 LFI Division 4 - Bases 4040030 3 CY n 5 - Surface Treatments & Pavements 5020010 9 TON Division 6 - Structures Sion 8 - Miscellaneous Construction 15 LF 8140000 49 SY 8140040 56 SF <td>\$335,725 Pro e side from 5th to 1st. Add Green striping across intersections. Bid Item No. 1071020 Qty Unit Unit Cost ivision 1 - General Requirements 1071020 1.0 LS \$2,000 1070050 1.0 LS \$10,000 1090000 1.0 LS \$14,000 100000 1.0 LS \$14,000 20201_0 15 LF \$12 2020130 2 EA \$445 202015_ 120 LFI \$1.50 subtotal: Subtotal: subtotal: subtotal: n 5 - Surface Treatments & Pavements Subtotal: subtotal: subtotal: cs, Storm Sewers, Sanitary Sewers, Water mains & Conduits subtotal: subtotal: s</td> | \$335,725 Pro e side from 5th to 1st. Add Green striping across intersections. Bid Item No. 1071020 Qty Unit Unit Cost ivision 1 - General Requirements 1071020 1.0 LS \$2,000 1070050 1.0 LS \$10,000 1090000 1.0 LS \$14,000 100000 1.0 LS \$14,000 20201_0 15 LF \$12 2020130 2 EA \$445 202015_ 120 LFI \$1.50 subtotal: Subtotal: subtotal: subtotal: n 5 - Surface Treatments & Pavements Subtotal: subtotal: subtotal: cs, Storm Sewers, Sanitary Sewers, Water mains & Conduits subtotal: subtotal: s |

| | Date Prepared: | 6/1/2023 | 3 | Prepared by: J. I | Ball |
|--|-------------------------|----------------------|-------------|-------------------------------|-------------------|
| Project Name: Washington St. Bike Lanes - 6th Ave to Sprague | | | | | oj ID: ??? |
| Description: Drop 1 lane between 6th to 5th ave. 3 lanes from 5th to | 1st. Bike lane on east | side (3' buffer | from 5th | n to 1st). Add Green striping | across |
| intersections. | Bid Item No. | 044 | Unit | Unit Cost | Extension |
| Item Description | sion 1 - General Requir | Qty coments | <u>Unit</u> | <u>Unit Cost</u> | <u>Extension</u> |
| SPCC Plan | 1071020 | 1.0 | LS | \$2,000 | \$2,000 |
| Public Liaison Representative | 1070050 | 1.0 | LS | \$2,000 | \$10,00 |
| Mobilization | 1090000 | 1.0 | LS | \$14,000 | \$14,000 |
| Project Tremporary Traffic Control | 1100000 | 1.0 | LS | \$14,000 | \$14,000 |
| | 1100000 | 1.0 | 20 | subtotal: | \$40,00 |
| | Division 2 - Earthwor | rk | | | |
| | Division 4 Resso | | | subtotal: | 9 |
| | Division 4 - Bases | | | subtotal: | \$ |
| Division 5 | - Surface Treatments | & Pavements | | JUNIOLAI | |
| Asphalt for Fog Seal | 5020010 | 9 | TON | \$725 | \$6,52 |
| | 0020010 | Ũ | 1 OIN | subtotal: | \$6,52 |
| | Division 6 - Structure | es | | | |
| | | | | subtotal: | \$ |
| Division 7 - Drainage Structures | , Storm Sewers, Sanita | ry Sewers, Wa | ter main | s & Conduits subtotal: | \$ |
| Divisio | n 8 - Miscellaneous Co | nstruction | | Subiotal. | 4 |
| Signing, Permanent - City Manufactured Signs | 8210070 | 1 | LS | \$20,000 | \$20,00 |
| Pavement Marking (Durable Heat Applied, Inlay Tape, Durable, Paint) | 82200_0 | 1 | LS | \$105,000 | \$105,00 |
| | 02200_0 | | 20 | subtotal: | \$125,000 |
| | Legacy ICM Items | | | | • • |
| | | | | subtotal: | \$(|
| | | | | Construction Subtotal | \$171,52 |
| | | | | | |
| Scope Contingency | | 20.0% | | | \$34,30 |
| beepe contingency | | 20.070 | | Construction Subtotal | \$205,83 |
| Construction Contingency | | 20.0% | | Construction Captoral | \$41,16 |
| Construction total | | 20.070 | | Construction Total | \$ 246,9 9 |
| | | | | | ¥= 10,00 |
| Property Purchase | | | | | \$ |
| Geotech | | 0.0% | | | \$ |
| Surveying | | 3.0% | | | \$7,41 |
| Design & Bid Docs | | 7.0% | | | \$17,29 |
| - | | | | | |
| Admin, Legal, & Permits | | 1.5% | | | \$3,70 |
| Construction Mgmt | | 15.0% | | Desired Tetal | \$37,04 |
| | | to from yoor | | Project Total | \$312,45 |
| | Unit COS | ts from year 2023 | | for construction in 2025 | |
| For Progr | am | 2023 | | 2023 | |
| | | 00 | | \$20,400 | |
| Preconstruct | | 28 | | \$30,109 | |
| Property Purcha | | 0 | | \$0 | |
| Construction To | | 247 | | \$261,816 | |
| Const mg | ymt | 37 | | \$39,272 | _ |
| | | 312 | | \$331,197 Pro | ject Cost |

Appendix D Public Engagement Dates

Downtown Plan Engagement Effort https://my.spokanecity.org/projects/downtown-plan-update/

Email list – staff established an email of list of more than 700 contacts to share project announcements

9/23/19 thru 9/24/19 - Stakeholder focus groups

10/14/19 thru 11/4/19 Online survey – 590 respondents took the survey on priority topics for the update and vision for Downtown Spokane.

10/22/19 Public Workshop – 55 attendees at a workshop focused on existing conditions, peer cities, best practices and preliminary survey results.

1/8/20, 1/30/20, 2/28/20, 6/26/20, 12/18/20 – Steering Committee meetings inviting 22 members from stakeholder groups to provide input and guidance.

2/5/20 Public Workshop – workshop focused on goals and strategies, including improving multi-modal access, new residential development, enhancing residential amenities and a historical trail.

8/18/20 Bicycle Advisory Board – present goals and strategies and discuss concepts with citizen bicycle board.

3/16/21 Virtual Open House – 89 attendees participated in the online open house to view the draft plan which included Q and A and polling. Polling focused on the concurrence with the strategies in the plan.

3/24/21 Plan Commission workshop – workshop for Plan Commission members to review and ask questions.

5/12/21 Plan Commission hearing – hearing in front of Plan Commission to approve the draft plan. With option for citizen testimony.

7/26/21 *City Council Hearing* – the Downtown Plan was adopted by the City Council. <u>https://static.spokanecity.org/documents/projects/downtown-plan-update-2020/2021-07-26-spokane-downtown-plan-web.pdf</u>

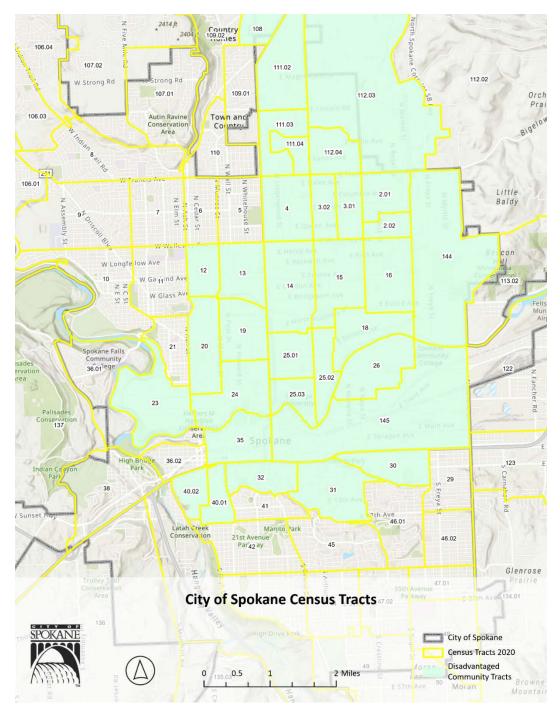
Plan Commission Transportation Subcommittee

5/2/23 Plan Commission Transportation Subcommittee meeting – Discussed the goals, collision analysis, and countermeasures of the draft Action Plan. Solicited feedback from the committee on measuring progress and needed policy updates.

6/6/23 Plan Commission Transportation Subcommittee meeting – Review and feedback on the draft Action Plan. Discussion of project priorities. Motion endorsing the Vision Zero Action Plan and the SS4A Grant Application.

Appendix E Disadvantaged/Underserved Census Tracts

Map 5 – Disadvantaged/Underserved Census Tracts from 2023 CEJ Screening Tool



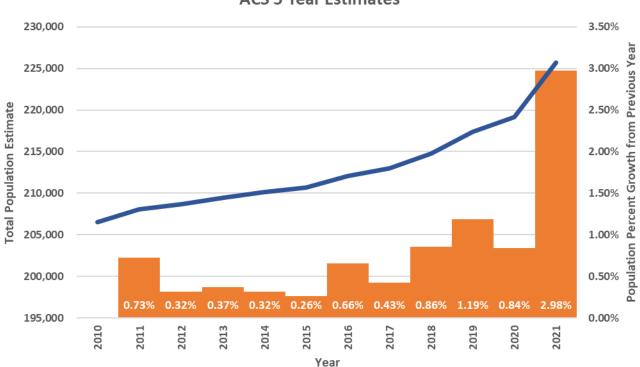
Appendix F

Required Background Data

This section includes background information on Spokane's population and some citywide data trends.

- The City of Spokane has a population of 219,185⁵ (see Chart 1 City of Spokane Total Population 2010-2021 ACS 5 Year Estimates)
- Table 6 shows the total number of fatal crashes from years 2017-2021 according to the NHTSA Fatality and Injury Reporting System Tool (FIRST).
- Chart 2 Highlights the trend of fatalities by transportation mode type from 2010 to 2021.
- Table 7 Summary table for all crashes from 2017-2021 with priorities established for crash type and contributing factors.

Chart 1 City of Spokane Total Population 2010-2021 ACS 5 Year Estimates



City of Spokane Total Population 2010-2021 ACS 5 Year Estimates

⁵ American Community Survey (2023). S0101 AGE AND SEX 2020: ACS 5-Year Estimates Subject Tables. Retrieved from https://data.census.gov/

Table 6 NHTSA Fatal Motor Vehicle Crashes

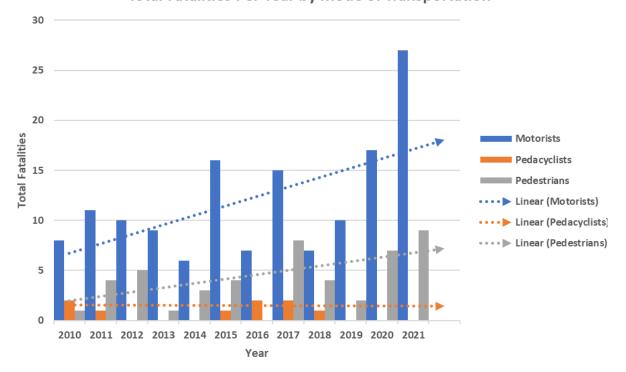
National Highway Traffic Safety Administration (NHTSA) Motor Vehicle Crash Data Querying and Reporting Fatal Motor Vehicle Crashes

State: Washington and City: Spokane

| Crash Date (Year) | Crash Date (Month) | | | | | | | | | | | | | |
|-------------------|--------------------|-----|-----|-----|-----|------|------|-----|------|-----|-----|-----|-------|--|
| | Jan | Feb | Mar | Apr | May | June | July | Aug | Sept | Oct | Nov | Dec | Total | |
| 2017 | 1 | 1 | 1 | 0 | 0 | 0 | 1 | 3 | 2 | 3 | 2 | 1 | 15 | |
| 2018 | 1 | 0 | 0 | 3 | 0 | 1 | 0 | 1 | 0 | 0 | 1 | 0 | 7 | |
| 2019 | 0 | 0 | 2 | 0 | 0 | 2 | 1 | 0 | 1 | 3 | 1 | 0 | 10 | |
| 2020 | 1 | 0 | 2 | 0 | 1 | 1 | 2 | 4 | 1 | 3 | 1 | 1 | 17 | |
| 2021 | 3 | 1 | 2 | 0 | 5 | 2 | 1 | 2 | 3 | 2 | 2 | 4 | 27 | |
| Total | 6 | 2 | 7 | 3 | 6 | 6 | 5 | 10 | 7 | 11 | 7 | 6 | 76 | |

Report Generated: Friday, April 7, 2023 (4:26:49 PM) VERSION 5.5, RELEASED APR 03, 2023

Chart 2 Total Fatalities Per Year by Mode of Transportation⁶



Total Fatalities Per Year by Mode of Transportation

⁶ Fatality Analysis Report System (FARS): 2010:2020 Final File and 2021 Annual Report File (ARF) Report Generated Tuesday, May 9, 2023. Version 5.5, Released Apr 03, 2023.

Table 7 Summary Table for Priority Crash Types

| | | Fatal/Seri | ous Crash | es | | All Ci | rashes | | Drigrity | Serious/Fatal |
|---------------------------------|-----------|----------------|-----------------------------|---|-------------|---------------|-----------------|----------------------|-------------------|---------------|
| | | ty of | City-C | | City of S | Spokane | City-O | | Priority Level | Higher than |
| | Sp | okane | Stre | eets | | | Stre | ets | | Statewide |
| Overall | 458 | 2.3% | 5,012 | 1.7% | 19,698 | | 301,913 | | | v |
| Fatal Crashes | 438 76 | 16.6% | 713 | 14.2% | 76 | 0.4% | 713 | 0.2% | | X X |
| Serious Injury | 382 | 83.4% | 4,299 | 85.8% | 382 | 1.9% | 4,299 | 1.4% | | Λ |
| Workzone Related | 6 | 1.3% | τ ₁ ζ / / | 00.070 | 230 | 1.2% | ΤιΖ / / | 1.470 | 3 | |
| Hit & Run | 63 | 13.8% | | | 4,617 | 23.4% | | | 2 | |
| Drug/Alcohol-Related Collisions | 77 | 16.8% | 945 | 18.9% | 1,450 | 7.4% | 17,666 | 5.9% | 2 | |
| Under the Influence | 65 | 14.2% | , 10 | 10.770 | 1,338 | 6.8% | 11/000 | 0.770 | 2 | |
| Wrong Way Crash | 2 | 0.4% | | | 58 | 0.3% | | | 3 | |
| Unrestrained | 29 | 6.3% | | | 377 | 1.9% | | | 3 | |
| | | 8 | ***** | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | | | ***** | ~~~ | - | |
| | | | | | | | | | | |
| By Primary Crash Type | | | | | | | | | | |
| Angle (T) | 73 | 15. 9 % | 695 | 13.9% | 4,885 | 24.8% | 74,503 | 24.7% | 2 | Х |
| Angle (Left) | 27 | 5.9% | 461 | 9.2% | 1,519 | 7.7% | 30,861 | 10.2% | 3 | |
| Angle (Right) | 0 | 0.0% | 27 | 0.5% | 148 | 0.8% | 4,804 | 1.6% | 3 | |
| Angla | 100 | 21.00/ | 1 1 0 0 | 22 / 0/ | / 550 | 22.20/ | 110 1/0 | 24 504 | 2 | |
| Angle | 100 | 21.8% | 1,183 | 23.6% | 6,552 | 33.3% | 110,168 | 36.5% | 2 | |
| Wildlife/Animal | 0 54 | 0.0% 11.8% | 4 | 0.1% | 26 | 0.1% 11.2% | 515 | 0.2% 10.5% | 3 | |
| Fixed Object Head On | 54 8 | 1.7% | 821 143 | 16.4% 2.9% | 2,200 61 | 0.3% | 31,666 1,393 | 0.5% | 3 | |
| Other | 8 15 | 3.3% | 143 | 2.9% 3.4% | 549 | 0.3% 2.8% | 1,393 | 0.5 <i>%</i> 4.3% | 3 | |
| Overturn | 10 | 2.2% | 170 | 3.4 <i>%</i> | 86 | 0.4% | 1,738 | 4.3 <i>%</i> 0.6% | 3 | |
| Hit Parked Car | 5 | 1.1% | 119 | 3.4 <i>%</i> | 1,852 | 9.4% | 28,493 | 0.0 <i>%</i> 9.4% | 3 | |
| Hit Pedestrian | 121 | 26.4% | 1,485 | 29.6% | 552 | 2.8% | 8,641 | 2.9% | 2 | |
| Hit Cyclist | 33 | 7.2% | 503 | 10.0% | 259 | 1.3% | 5,779 | 1.9% | 3 | |
| Rear End | 17 | 3.7% | 280 | 5.6% | 3,683 | 18.7% | 75,835 | 25.1% | 3 | |
| Sideswipe | 12 | 2.6% | 123 | 2.5% | 1,119 | 5.7% | 24,470 | 8.1% | 3 | Х |
| Train | 0 | 0.0% | 11 | 0.2% | 4 | 0.0% | 145 | 0.0% | 3 | |
| | | | | | | | | | - | |
| | | | | | | | | | | |
| Vulnerable User Involved | 162 | 35.4% | | | 972 | 4.9% | | | 1 | |
| Bicyclist(s) Involved | 34 | 7.4% | | | 304 | 1.5% | | | 3 | |
| Pedestrian(s) Involved | 128 | 27.9% | | | 668 | 3.4% | | | 2 | |

| By Light Condition | | | | | | | | | | |
|---------------------------------------|---------|----------------------|----------|----------------------|-----------|-----------------------|--------------|-----------------------|---|---|
| Dark-No Street Lights | 12 | 2.6% | 224 | 4.5% | 429 | 2.2% | 7,022 | 2.3% | 3 | |
| Dark-Street Lights Off | 5 | 1.1% | 48 | 1.0% | 118 | 0.6% | 1,584 | 0.5% | 3 | Х |
| Dark-Street Lights On | 146 | 31.9% | 1,788 | 35.7% | 4,114 | 20.9% | 70,157 | 23.2% | 1 | |
| Dark | 163 | 35.6% | 2,060 | 41.1% | 4,661 | 23.7% | 78,763 | 26.1% | 1 | |
| Daylight | 194 | 42.4% | 2,706 | 54.0% | 11,395 | 57.8% | 205,970 | 68.2% | 1 | |
| Dusk/Dawn | 16 | 3.5% | 2,700 | 4.3% | 633 | 3.2% | 12,308 | 4.1% | 3 | |
| Unlisted | 0 | 0.0% | 28 | 0.6% | 189 | 1.0% | 4,872 | 1.6% | 3 | |
| | | | | | | | | | | |
| By Fixed Object (First Object Struck) | 54 | 11.8% | 821 | 16.4% | 2,200 | 11.2% | 31,666 | 10.5% | 2 | |
| Bridge | 0 | 0.0% | 15 | 1.8% | 166 | 7.5% | 856 | 2.7% | 3 | |
| Building | 2 | 3.7% | 21 | 2.6% | 92 | 4.2% | 1,094 | 3.4% | 3 | X |
| Concrete Barrier | 5 | 9.3% | 28 | 3.4% | 209 | 9.5% | 864 | 2.7% | 3 | Х |
| Crash Cushions | 0 | 0.0% | 1 | 0.1% | 19 | 0.9% | 56 | 0.2% | 3 | |
| Culvert | 1 11 | 1.9% 20.4% | 7 112 | 0.9% | 2 129 | 0.1% 5.9% | 124 | 0.4% | 3 | X |
| Curb/Median Debris | | 20.4% | 3 | 13.7% 0.4% | 26 | 5.9% 1.2% | 2,978 213 | 9.4% 0.7% | 3 | Х |
| Embankment/Wall | 0 5 | 9.3% | 3 70 | 0.4 <i>%</i> 8.6% | 20 117 | 1.2% 5.3% | 1,845 | 0.7% 5.8% | 3 | Y |
| Fallen Tree | 0 | 9.3% | 1 | 0.0% 0.1% | 1 | 0.0% | 1,845 | 0.3% | 3 | Х |
| Fence | 3 | 0.0 <i>%</i> 5.6% | 53 | 6.5% | 273 | 0.0 <i>%</i> 12.4% | 3,724 | 0.3 <i>%</i> 11.7% | 3 | |
| Guardrail | 5 | 9.3% | 32 | 3.9% | 78 | 3.5% | 1,040 | 3.3% | 3 | х |
| Hydrant | 0 | 0.0% | 7 | 0.9% | 42 | 1.9% | 765 | 2.4% | 3 | X |
| Mailbox | 0 | 0.0% | , 15 | 1.8% | 11 | 0.5% | 953 | 3.0% | 3 | |
| Manhole Cover | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | 60 | 0.2% | 3 | |
| Other | 4 | 7.4% | 116 | 13.6% | 284 | 12.9% | 4,790 | 15.3% | 3 | |
| Rock | 2 | 3.7% | 7 | 0.9% | 34 | 1.5% | 434 | 1.4% | 3 | х |
| Sign Post/Pole | 5 | 9.3% | 30 | 3.7% | 264 | 12.0% | 2,985 | 9.4% | 3 | X |
| Signal Pole | 0 | 0.0% | 25 | 3.1% | 47 | 2.1% | 779 | 2.5% | 3 | |
| Temp Traffic Sign | 1 | 1.9% | 4 | 0.5% | 18 | 0.8% | 131 | 0.4% | 3 | х |
| Tree | 6 | 11.1% | 176 | 21.6% | 176 | 8.0% | 4,359 | 13.7% | 2 | |
| Utility Box | 0 | 0.0% | 8 | 1.0% | 28 | 1.3% | 384 | 1.2% | 3 | |
| Utility Pole | 4 | 7.4% | 90 | 11.0% | 184 | 8.4% | 3,128 | 9.9% | 3 | |
| By Junction Relationship | | | | | | | | | | |

| Intersection-Related | 200 | 43.7% | 2,443 | 48.7% | 9,432 | 47.9% | 153,454 | 50.8% | 1 | |
|--------------------------------------|----------------|--------------|-------|-------|--------|-------|---------|-------|---|---|
| Non-Intersection-Related | 159 | 34.7% | 2,132 | 42.5% | 6,594 | 33.5% | 106,170 | 35.2% | 1 | |
| Driveway-Related | 15 | 3.3% | 421 | 8.4% | 908 | 4.6% | 39,868 | 13.2% | 3 | |
| Roundabout-Related | 1 | 0.2% | 16 | 0.3% | 40 | 0.2% | 2,421 | 0.8% | 3 | |
| Houndbour Hourou | • | 0.270 | 10 | 0.070 | 10 | 01270 | =,.=. | 0.070 | | |
| Controlled | 77 | 38.5% | | | 3,758 | 39.8% | | | 1 | |
| | | | | | | | | | | |
| Stop | 47 | 23.5% | | | 1,804 | 19.1% | | | 2 | |
| Signal | 30 | 15.0% | | | 1,896 | 20.1% | | | 2 | |
| Yield | 0 | 0.0% | | | 58 | 0.6% | | | 3 | |
| Other | 0 | 0.0% | | | 0 | 0.0% | | | 3 | |
| Traffic Circle | 0 | 0.0% | | | 0 | 0.0% | | | 3 | |
| Uncontrolled | 12 | 6.0% | | | 602 | 6.4% | | | 3 | |
| | | | | | | | | | | |
| | 20 | | | | | | | | | |
| By Driver Contributing Circumstance | 256 | | | | 13,054 | | | | | |
| Asleep/Driver Fatigue | 2 | 0.8% | 63 | 1.1% | 38 | 0.3% | 3,452 | 0.9% | 3 | |
| Disregarded Traffic Control | 15 | 5. 9% | 320 | 5.5% | 831 | 6.4% | 16,438 | 4.5% | 3 | Х |
| Operating Defective Equipment | 3 | 1.2% | 76 | 1.3% | 295 | 2.3% | 4,423 | 1.2% | 3 | |
| Exceeding Safe/Stated Speed | 67 | 26.2% | 902 | 15.5% | 1,599 | 12.2% | 24,912 | 6.8% | 2 | Х |
| Failed to Yield | 39 | 15.2% | 605 | 10.4% | 3,307 | 25.3% | 61,804 | 17.0% | 2 | Х |
| Failed to Yield to Ped/Bike | 0 | 0.0% | 378 | 6.5% | 0 | 0.0% | 3,747 | 1.0% | 3 | |
| Improper/Failure to Signal | 0 | 0.0% | 4 | 0.1% | 23 | 0.2% | 569 | 0.2% | 3 | |
| Following Too Closely | 13 | 5.1% | 110 | 1.9% | 2,722 | 20.9% | 33,885 | 9.3% | 3 | Х |
| Headlight Violation | 0 | 0.0% | 15 | 0.3% | 0 | 0.0% | 224 | 0.1% | 3 | |
| Apparently III | 3 | 1.2% | 57 | 1.0% | 63 | 0.5% | 1,156 | 0.3% | 3 | Х |
| Improper Movement | 7 | 2.7% | 268 | 4.6% | 406 | 3.1% | 25,261 | 6.9% | 3 | |
| Inattention/Distraction | 44 | 17.2% | 1,399 | 24.1% | 2,566 | 19.7% | 122,177 | 33.6% | 2 | |
| Under the Influence of Alcohol/Drugs | 59 | 23.0% | 670 | 11.5% | 1,138 | 8.7% | 14,384 | 4.0% | 2 | Х |
| Wrong Side of Road | 4 | 1.6% | 183 | 3.1% | 66 | 0.5% | 3,456 | 0.9% | 3 | |
| Other | 0 | 0.0% | 761 | 13.1% | 0 | 0.0% | 48,031 | 13.2% | 3 | |
| | | | | | | | | | | |
| | 8 | | | | | | | | | |
| By Pedestrian Contributing | - - - - | | | | 477 | | | | | |
| Circumstance | 52 | 0.004 | | 0.10/ | 177 | 0.004 | 10 | 0.007 | | |
| Asleep | 0 | 0.0% | 1 | 0.1% | 0 | 0.0% | 12 | 0.3% | 3 | |
| Failure to Use Crosswalk | 4 | 7.7% | 140 | 13.2% | 18 | 10.2% | 459 | 11.1% | 3 | |
| Disregarded Traffic Control | 0 | 0.0% | 39 | 3.7% | 3 | 1.7% | 173 | 4.2% | 3 | |
| Failed to Yield | 27 | 51.9% | 254 | 24.0% | 76 | 42.9% | 881 | 21.2% | 1 | Х |

| Failed to Yield to Ped/Bike | 0 | 0.0% | 10 | 0.9% | 0 | 0.0% | 40 | 1.0% | 3 | |
|--|-----|-------|-----|-------|-----|-------|-------|-------|---|---|
| Inattention/Distraction | 12 | 23.1% | 242 | 22.9% | 51 | 28.8% | 1,153 | 27.8% | 2 | х |
| Under the Influence of Alcohol/Drugs | 9 | 17.3% | 87 | 8.2% | 29 | 16.4% | 315 | 7.6% | 2 | х |
| Wrong Side of Road | 0 | 0.0% | 6 | 0.6% | 0 | 0.0% | 29 | 0.7% | 3 | |
| Other | 0 | 0.0% | 280 | 26.4% | 0 | 0.0% | 1,086 | 26.2% | 3 | |
| | | | | | | | | | | |
| By Bicyclist Contributing Circumstance | 15 | | | | 122 | | | | | |
| Disregarded Traffic Control | 1 | 6.7% | 54 | 13.7% | 13 | 10.7% | 345 | 9.8% | 3 | |
| Equipment Breakdown | 0 | 0.0% | 9 | 2.3% | 9 | 7.4% | 98 | 2.8% | 3 | |
| Exceeding Safe Speed | 0 | 0.0% | 22 | 5.6% | 6 | 4.9% | 162 | 4.6% | 3 | |
| Failed to Yield | 10 | 66.7% | 70 | 17.8% | 46 | 37.7% | 694 | 19.7% | 1 | х |
| Failed to Yield to Ped/Bike | 0 | 0.0% | 5 | 1.3% | 0 | 0.0% | 23 | 0.7% | 3 | |
| Improper/Failure to Signal | 1 | 6.7% | 2 | 0.5% | 1 | 0.8% | 12 | 0.3% | 3 | Х |
| Following Too Closely | 0 | 0.0% | 5 | 1.3% | 2 | 1.6% | 47 | 1.3% | 3 | |
| Apparently III | 0 | 0.0% | 1 | 0.3% | 0 | 0.0% | 4 | 0.1% | 3 | |
| Headlight Violation | 0 | 0.0% | 10 | 2.5% | 0 | 0.0% | 82 | 2.3% | 3 | |
| Improper Movement | 0 | 0.0% | 17 | 4.3% | 3 | 2.5% | 126 | 3.6% | 3 | |
| Inattention/Distraction | 2 | 13.3% | 108 | 27.5% | 35 | 28.7% | 946 | 26.8% | 2 | |
| Under the Influence of Alcohol/Drugs | 1 | 6.7% | 9 | 2.3% | 7 | 5.7% | 76 | 2.2% | 3 | Х |
| Wrong Side of Road | 0 | 0.0% | 19 | 4.8% | 0 | 0.0% | 253 | 7.2% | 3 | |
| Other | 0 | 0.0% | 62 | 15.8% | 0 | 0.0% | 661 | 18.7% | 3 | |
| | | | | | | | | | | |
| By Facility Use (Pedestrians) | 131 | | | | 683 | | | | | |
| Designated Bike Route | 0 | 0.0% | 4 | 0.2% | 2 | 0.3% | 24 | 0.3% | 3 | |
| Marked X walk | 41 | 31.3% | 597 | 36.4% | 301 | 44.1% | 4,612 | 49.2% | 1 | |
| Roadway | 47 | 35.9% | 664 | 40.5% | 178 | 26.1% | 2,481 | 26.4% | 1 | |
| Shoulder | 2 | 1.5% | 50 | 3.1% | 11 | 1.6% | 238 | 2.5% | 3 | |
| Sidewalk | 7 | 5.3% | 99 | 6.0% | 50 | 7.3% | 690 | 7.4% | 3 | |
| Unmarked X walk | 20 | 15.3% | 121 | 7.4% | 96 | 14.1% | 861 | 9.2% | 2 | Х |
| Walkway | 1 | 0.8% | 8 | 0.5% | 3 | 0.4% | 74 | 0.8% | 3 | Х |
| Other | 13 | 9.9% | 96 | 5.9% | 42 | 6.1% | 403 | 4.3% | 3 | х |
| | * | | | | | | | | | |
| By Facility Use (Bicycles) | 34 | | | | 306 | | | | | |
| Designated Bike Route | 2 | 5.9% | 94 | 18.3% | 15 | 4.9% | 1,021 | 17.4% | 3 | |
| Marked X walk | 6 | 17.6% | 53 | 10.3% | 59 | 19.3% | 1,003 | 17.1% | 2 | Х |
| Roadway | 17 | 50.0% | 255 | 49.7% | 124 | 40.5% | 2,255 | 38.5% | 1 | Х |

| | Shoulder Sidewalk Unmarked X walk Walkway Other | 4 4 0 0 1 | 11.8% 11.8% 0.0% 0.0% 2.9% | 32 50 16 1 12 | 6.2% 9.7% 3.1% 0.2% 2.3% | 10 61 22 2 13 | 3.3% 19.9% 7.2% 0.7% 4.2% | 285 886 224 33 145 | 4.9% 15.1% 3.8% 0.6% 2.5% | 2 2 3 3 3 | x x x |
|------------------------|--|---|---|---------------------------|--------------------------------------|---|---|--------------------------------|---------------------------------------|---|-------------|
| By Road Classification | Highway Major Arterial Minor Arterial Collector Local Alley Unimproved | 48 94 48 12 35 1 0 | 10.5% 20.5% 10.5% 2.6% 7.6% 0.2% 0.0% | | | 1,265 2,529 1,206 340 1,601 28 1 | 6.4% 12.8% 6.1% 1.7% 8.1% 0.1% 0.0% | | | 2 2 3 3 3 3 3 3 3 | |
| By Speed Limit | <= 25 30 35 40 45 50 55 60 | 29 88 28 1 5 0 5 3 | 6.3% 19.2% 6.1% 0.2% 1.1% 0.0% 1.1% 0.7% | | | 1,761 3,850 833 83 260 6 122 186 | 8.9% 19.5% 4.2% 0.4% 1.3% 0.0% 0.6% 0.9% | | | 3 2 3 3 3 3 3 3 3 3 3 | |