



# CITY OF SAN ANTONIO TRANSPORTATION DEPARTMENT

## Multi-Modal Corridor Study Evaluation Criteria & Recommended Study Corridors

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Transportation and Mobility Committee  
June 21, 2022

# MULTI-MODAL CORRIDOR STUDIES



## **Background**

- In 2018, the Alamo Area Metropolitan Planning Organization (AAMPO)/Texas Department of Transportation (TxDOT) approved four (4), \$1 million multi-modal studies, The first corridor identified for study was Culebra Rd, from IH-10 to Loop 1604 (13 miles)
- At the May 13, 2021, Transportation & Mobility Committee Meeting, Department staff recommended Harry Wurzbach Road, Marbach Road and West Avenue for the three (3) remaining AAMPO/TxDOT multi-modal studies
- The Committee requested more details on the criteria used to inform the selection of the recommended corridors and today the Department is providing the justification for the selected corridors based on eight (8) customary, transportation decision-making criteria

# MULTI-MODAL CORRIDOR STUDY CRITERIA



## Methodology

- The methodology used to inform the selection of recommended corridors for study included an initial screening based on: 1.) City-owned collector and arterial roadways; 2.) Severe Pedestrian/Bicycle Injury Area (SP/BIA) Report data; and 3.) VIA Metropolitan Transit (VIA) transit boardings and alightings for the segments outlined below:

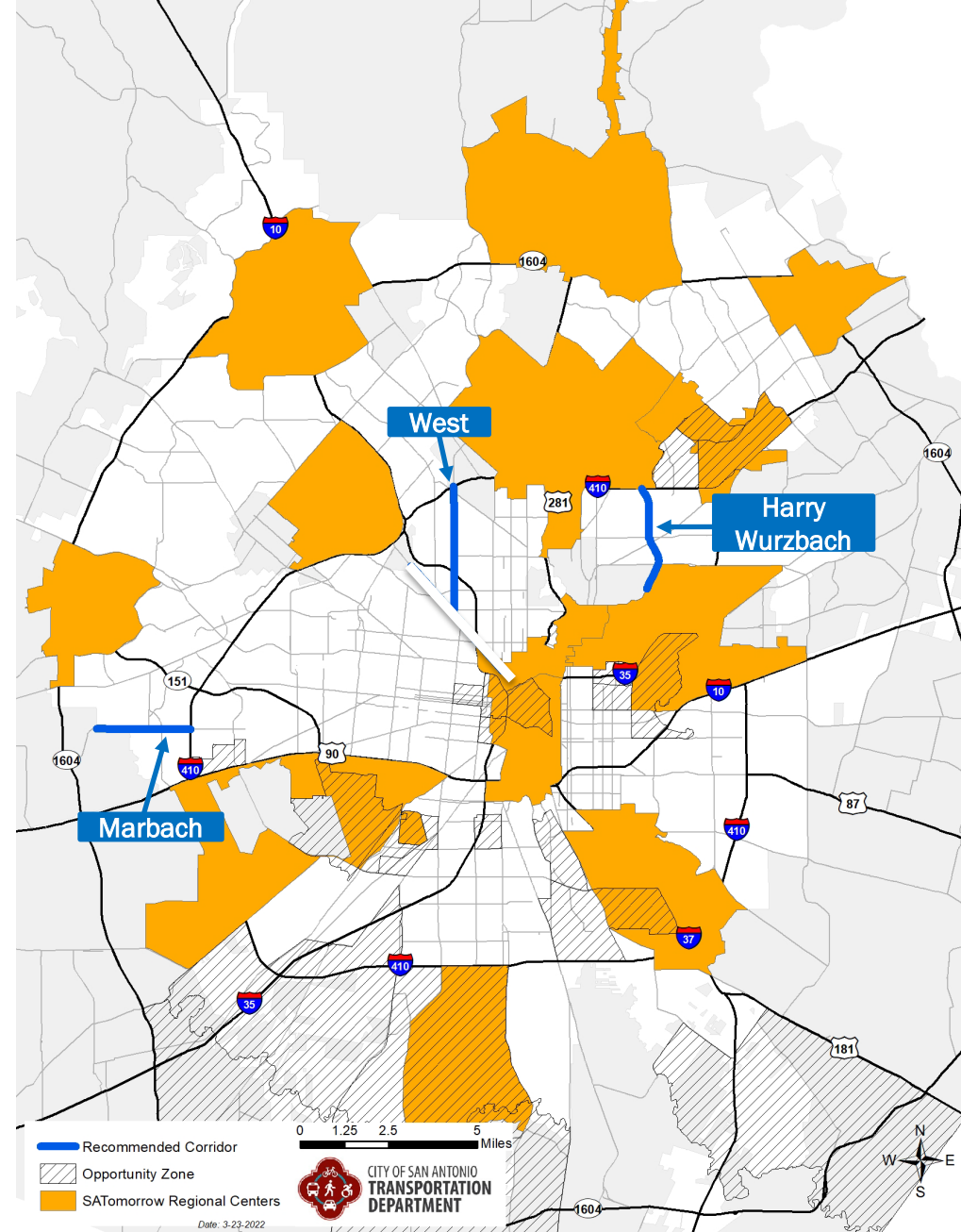
| Corridor       | Limits                              | Length     | SPIA<br>(Severe Pedestrian<br>Injury Area) | VIA<br>Avg. Weekday<br>Boardings | VIA<br>Avg. Weekday<br>Alightings | VIA<br>Avg. Weekday<br>Total Activity |
|----------------|-------------------------------------|------------|--|----------------------------------|-----------------------------------|---------------------------------------|
| Harry Wurzbach | Lp 410 to Fort Sam Houston Cemetery | 2.84 miles | NO   | 278                              | 271                               | 549                                   |
| Marbach Rd     | Lp 410 to City Limits               | 2.63 miles | YES<br>(Cable Ranch to Lp 410)             | 391                              | 461                               | 852                                   |
| West Ave       | Lp 410 to Hildebrand                | 3.48 miles | YES<br>(Gilbert to Hermosa)                | 1,666                            | 1,665                             | 3,331                                 |

- The next level of screening included other customary, industry-wide evaluation criteria, that when combined, provide an opportunity to increase safety and accessibility to important activity centers on high-traffic (all modes) corridors to increase the throughput people

# RECOMMENDED MULTI-MODAL CORRIDORS \* MAP



*\*Study limits to be determined once corridors have been identified.*



# MULTI-MODAL CORRIDOR STUDY CRITERIA



## Methodology

Thirteen (13) corridors were further evaluated based on the following criteria:

1. Transit Service
2. Transit Ridership (*March 2022 VIA Data*)
3. Major Activity Centers & Traffic Generators
4. Traffic Volume (*2020 TxDOT Data*)
5. Safety/Vision Zero High Injury Network (HIN)
6. Equity (Low-Income or Minority Census Tracts)
7. SA Tomorrow Plans
8. **Within .50-mile of a Park (Recently added)**
9. Bond Projects (Planned)



# CORRIDORS & EVALUATION CRITERIA



| Roadway Name (1-3-mile Study Limit)**   | VIA Transit Route Numbers  | Average Weekday Ridership <sup>1</sup> | Major Activity Centers/Traffic Generators   | Average Daily Trips (ADT) (Auto) <sup>2</sup> | Vision Zero High Injury Network (HIN) <sup>3</sup> | Equity (Census Tracts with Low Income & Minority) <sup>4</sup> | SA Tomorrow Plans         | Within 1/4 mile of SA Park | Bond Projects                         |
|---|--|--|---|---|--|--|---------------------------|----------------------------|---------------------------------------|
| Harry Wurzbach (410 - Sam Houston Blvd) | 8, 14, 505, 509, 552, 647  | 7,628                                  | Ft. Sam Houston, High-density residential   | 84,589  | N/A  | N/A  | Airport, Fort Sam Houston |                            | N/A                                   |
| Marbach Road                            | 552, 612, 613, 615, 617, 618   | 5,525                                  | Loop 410-Marbach Rd Commercial Center   | 80,036  | Yes  | Yes  | N/A                       |                            | 2022 - Drainage                       |
| West Avenue                             | 93, 95, 96, 97, 100, 103, 505, 509, 552, 651                             | 15,848                                 | Fredericksburg Road Primo, Zarzamora Street Primo   | 62,958  | Yes  | Yes  | N/A                       |                            | N/A                                   |
| S. New Braunfels Avenue                 | 20, 22, 24, 25, 26, 28, 30, 32, 34                                       | 10,277                                 | New Braunfels Frequent, Brooks, Ft. Sam Houston, Pittman-Sullivan Park/Davis-Scott YMCA Brooks Transit Center, Tx | 50,354  | Yes  | Yes  | Ft. Sam Houston & Brooks  |                            | 2017 & 2022 (E Houston to Paso Hondo) |
| Zarzamora Street                        | 62, 64, 66, 67, 68, 75, 76, 77, 79, 82, 88, 89, 90, 95, 96, 97, 100, 103 | 19,633                                 | Zarzamora Street Primo, South Park Mall, Woodlawn Lake  | 71,999  | Yes  | Yes  | TAMU-SA                   |                            | 2022 (S Zarzamora Railroad Overpass)  |
| Gen. McMullen Drive                     | 62, 64, 66, 67, 68, 75, 76, 77, 79, 82, 522, 524                         | 9,044                                  | Port SA, St. Mary's University  | 94,167  | Yes  | Yes  | Port SA                   |                            | N/A                                   |
| Blanco Road                             | 2, 90, 505, 509, 534, 552, 651   | 7,707                                  | Downtown, Midtown   | 49,557  | Yes  | Yes  | Airport & Midtown         |                            | N/A                                   |
| W. Commerce Street                      | 25, 66, 75, 76, 103, 522, 524  | 9,728                                  | Our Lady of the Lake University, Downtown, Centro Plaza   | 110,145                                       | Yes  | Yes  | Downtown                  |                            | 2017                                  |
| Basse Road                              | 2, 3, 4, 5, 7, 97, 505, 651  | 6,821                                  | High-density residential, Alamo Quarry Market, Olmos Park   | 74,638  | N/A  | Yes  | Airport                   |                            | N/A                                   |
| Goliad Road                             | 7, 32, 34, 515, 552  | 2,804                                  | Brooks, McCreless Market, Social Security Administration  | 35,177  | N/A  | Yes  | Brooks                    |                            | 2017                                  |
| Pecan Valley                            | 28, 30, 32, 34, 515  | 3,892                                  | Brooks, High-density residential, Southside Lions Park  | 58,819  | N/A  | Yes  | Brooks                    |                            | N/A                                   |
| Southcross Boulevard                    | 7, 24, 28, 32, 345, 36, 42, 43, 44, 46, 51, 103, 515, 524                | 20,105                                 | McCreless Market, Social Security Administration  | 42,491  | Yes  | Yes  | Brooks                    |                            | 2017 & 2022 (Southcross Blvd Phase 2) |
| Woodlawn Avenue                         | 2, 3, 4, 5, 8, 88, 89, 90, 93, 95, 96, 97, 100, 103, 522, 524            | 21,073                                 | High-density residential, St. Mary's University, Woodlawn Park  | 41,165  | Yes  | Yes  | Midtown                   |                            | N/A                                   |

\*Bold - Staff recommended corridors; \*\* Study Limits to be determined upon selection of study corridors.

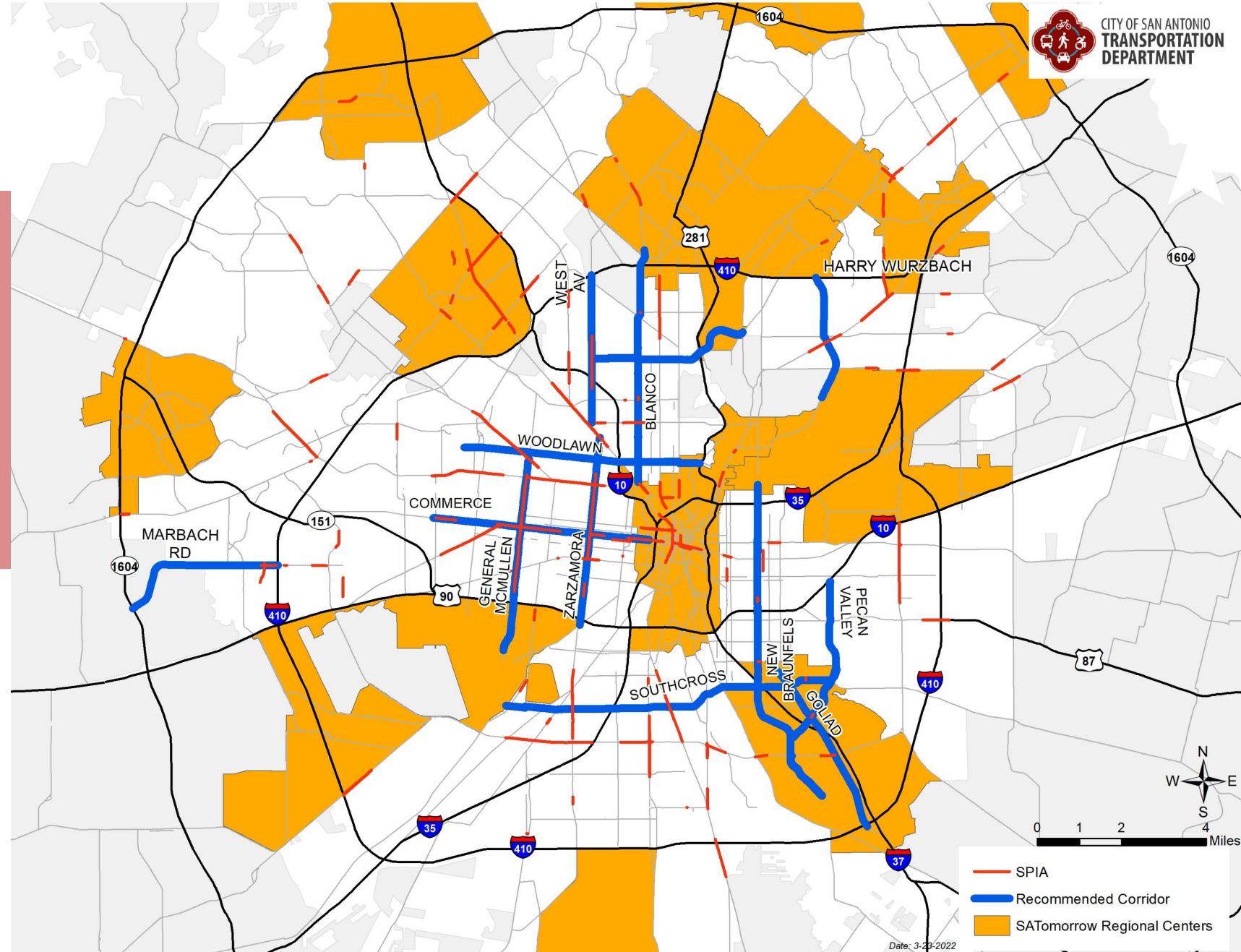
<sup>1</sup> VIA Ridership - March 2022; <sup>2</sup> Texas Dept. of Transportation Data - 2020; <sup>3</sup> High Injury Network - Vision Zero Hot Spot Corridors; <sup>4</sup> One or more Census Tracts with Low-Income or Communities of Color

N/A - Does not have a high volume of VZ crashes; does not have census tracts that have high numbers of low-income and minority residents; and do not have SA Tomorrow Plans or existing or planned Bond Projects.



# CORRIDORS SCREENED\*

*\*Study limits to be determined once corridors have been identified.*



# HARRY WURZBACH ROAD HIGHLIGHTS



Staff recommended ***Harry Wurzbach Road*** based on the following factors:

- ✓ Connectivity to several major high ridership transit routes; 30% ridership increase on Route 647 (North Star/Harry Wurzbach)
- ✓ Gateway to Ft. Sam Houston the final resting place of United States Veterans;
- ✓ Growth in high-density residential products;
- ✓ High volume of vehicle trips which increase potential for crashes; and
- ✓ Supports Airport and Ft. Sam Houston SA Tomorrow Plans.

| Harry Wurzbach Road                       | Criteria Results                               |
|---|--|
| Transit Routes                            | 6  |
| Average Weekday Ridership                 | 7,628  |
| Major Activity Centers/Traffic Generators | Ft. Sam Houston and high-density residential   |
| Average Daily Traffic Volume              | 84,589   |
| Vision Zero High Injury Network (HIN)     | No   |
| Equity                                    | No significant low-income/minority populations |
| SA Tomorrow Plans                         | Ft. Sam Houston and Airport                    |
| Parks                                     |  |
| Bond Projects                             | None   |



# MARBACH ROAD HIGHLIGHTS



Staff recommended ***Marbach Road*** based on the following factors:

- ✓ Connectivity to several major high ridership transit routes; 613 (Heritage), 615 (Heritage Park) and 618 (Heritage Park)
- ✓ Heritage Square major employment center;
- ✓ High volume of vehicle trips which increase potential for crashes;
- ✓ Vision Zero High Injury Network (Cable Ranch to Loop-410)
- ✓ Significant low-income/minority Census Tracts; and
- ✓ Supports 2022 Drainage Bond Project.

| Marbach Road                              | Criteria Results                                |
|---|---|
| Transit Routes                            | 6   |
| Average Weekday Ridership                 | 5,525   |
| Major Activity Centers/Traffic Generators | Loop 410-Marbach Road<br>Heritage Square Center |
| Average Daily Traffic Volume              | 80,036  |
| Vision Zero High Injury Network (HIN)     | Yes   |
| Equity                                    | Yes   |
| SA Tomorrow Plans                         | None  |
| Parks                                     | Heritage & Ingram Park                          |
| Bond Projects                             | 2022-Drainage                                   |

# WEST AVENUE HIGHLIGHTS



Staff recommended **West Avenue** based on the following factors:

- ✓ Connectivity to several major high ridership transit routes:
  - ❑ X-103 Zarzamora Primo
  - ❑ X-93 I-10/UTSA Express **up 140.5%**
  - ❑ X-95 Fredericksburg Primo **up 13.4%**
- ✓ High volume of multi-family housing units;
- ✓ High volume of vehicle trips which increase potential for crashes;
- ✓ Vision Zero High Injury Network (Gilbert to Hermosa)

| West Avenue                               | Criteria Results                                       |
|---|--|
| Transit Routes                            | 10   |
| Average Weekday Ridership                 | 15,848   |
| Major Activity Centers/Traffic Generators | Major Connection to multiple high-ridership VIA Routes |
| Average Daily Traffic Volume              | 62,958   |
| Vision Zero High Injury Network (HIN)     | Yes  |
| Equity                                    | Yes  |
| SA Tomorrow Plans                         | None   |
| Parks                                     |  |
| Bond Projects                             | None   |

# PROPOSED MULTI-MODAL CORRIDORS



## **Recommendation**

- The Transportation Department is seeking the Transportation & Mobility Committee's acceptance of the evaluation criteria and approval of Harry Wurzbach Road, Marbach Road and West Avenue to be studied for the remaining AAMPO/TxDOT Multi-modal Corridor Studies

## **Next Steps**

- Provide TxDOT with the final scope of work for the multi-modal studies upon selection of the three (3) corridors
- Prepare the Advanced Funding Agreement (AFA) with TxDOT for the three (3), multi-modal studies to be completed annually in FY '23, FY '24 and FY '25
- High profile solicitation – Summer/Fall 2022
- Seek to award one firm for consistency and continuity of study theme



## Comments/Questions



# CITY OF SAN ANTONIO TRANSPORTATION DEPARTMENT

[SANANTONIO.GOV/TRANSPORTATION](https://sanantonio.gov/transportation)