

Transportation and Transit Committee Meeting

July 12, 2022







PRESENTATION OVERVIEW

- Background
- Public Involvement
- Draft Tier 2 Analysis—will be out for comment
- BRT Recommended Alternative
- Next Steps



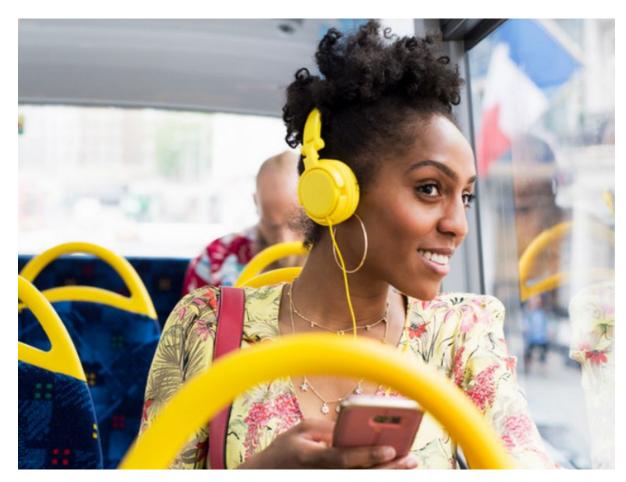
BACKGROUND

PURPOSE STATEMENT

The purpose of the Milwaukee North-South Transit Enhancement Study is to build upon Milwaukee's existing transit infrastructure and investment to support mobility throughout Milwaukee County, focusing on underserved residents in the corridor, supporting the local commitment to racial equity and social justice investments. This study is one step in helping Milwaukee County government to identify and address policies, practices and power structures that, whether intentionally or unintentionally, favor white people and create barriers for black, brown, and indigenous people. Racial equity is a top priority of Milwaukee County government.

BENEFITS OF ENHANCED TRANSIT

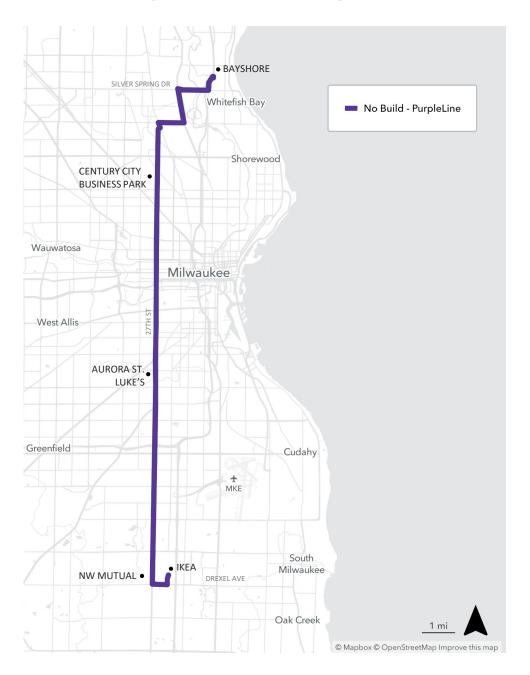
- Faster, more reliable access to jobs, education, healthcare, and other destinations by transit
- A better experience for riders with improved stations
- Traffic calming and pedestrian safety enhancements near stations
- Support for businesses by providing better access for workers and customers
- Encourage development and redevelopment near stations
- Better connections to other transit routes including East-West BRT



NO BUILD OPTION

The "No Build" option was evaluated with all alternatives to understand the benefit of possible improvements compared to making no changes

No Build Option (MCTS PurpleLine)



RANGE OF **ALTERNATIVES**



BUS RAPID TRANSIT (BRT)

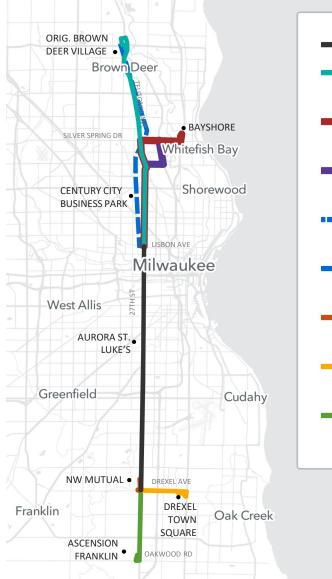


RAPID STREETCAR



LIGHT RAIL TRANSIT

Milwaukee North-South Transit **Enhancement Route Alternatives**



- Central On-Street Segment
- North Option 1 Brown Deer Village
- North Option 2 Bayshore (Teutonia)
- North Option 3 Bayshore (Green Bay Ave)
- North Option 4 Brown Deer (on rail)
- North Option 4 Lisbon/27th Connection
- South Option A Northwestern Mutual
- South Option B Drexel Town Square
- South Option C Ascension Franklin

STATION FEATURES

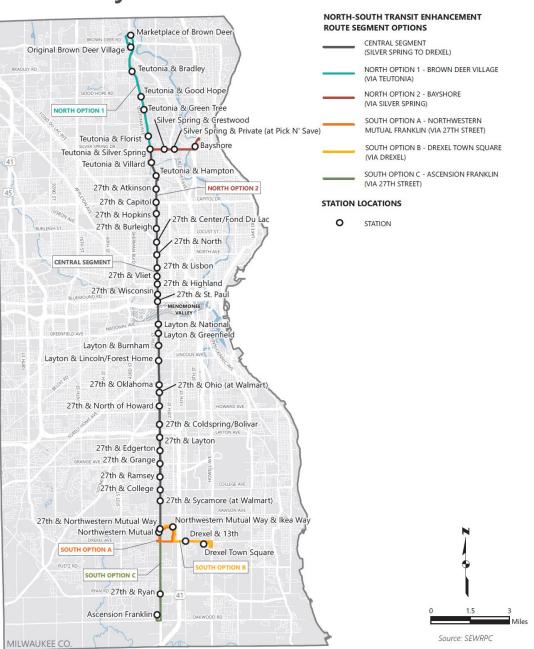
- Level boarding
- High-quality shelters with seating
- Off-board ticketing
- Real-time bus arrival information and schedules
- Accessible to everyone
- Lighting



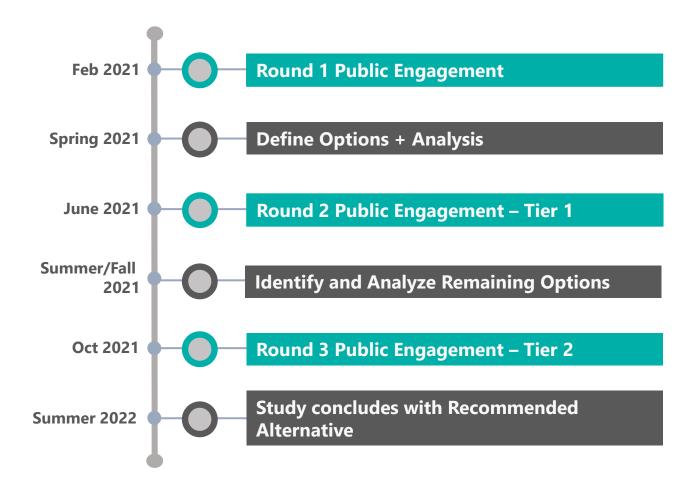
STATIONS

- 1/4 to 1/2 mile spacing
- Stations at intersections with other major streets, transit routes, and important destinations
- Looked at ridership, equity, population and job access around each station

Preliminary Station Intersection Locations



STUDY TIMELINE



PUBLIC INVOLVEMENT

PUBLIC INVOLVEMENT



ROUNDS OF VIRTUAL MEETINGS



306 RESPONSES TO 8 ONLINE SURVEYS





490 RESPONSES TO BUS STOP SURVEY



90 + STAKEHOLDER MEETINGS (IN-PERSON AND VIRTUAL)



Photo: Century City Tri Angle Neighborhood Association

COMMUNITY PARTNERS













A Neighborhood of Neighborhoods

TIER 2 ANALYSIS

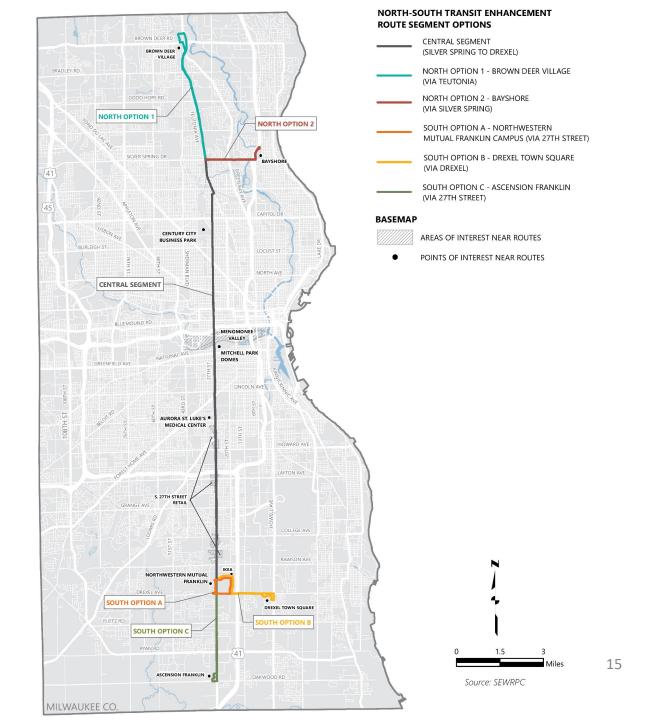
TIER 2: RANGE OF ALTERNATIVES



BUS RAPID TRANSIT (BRT)

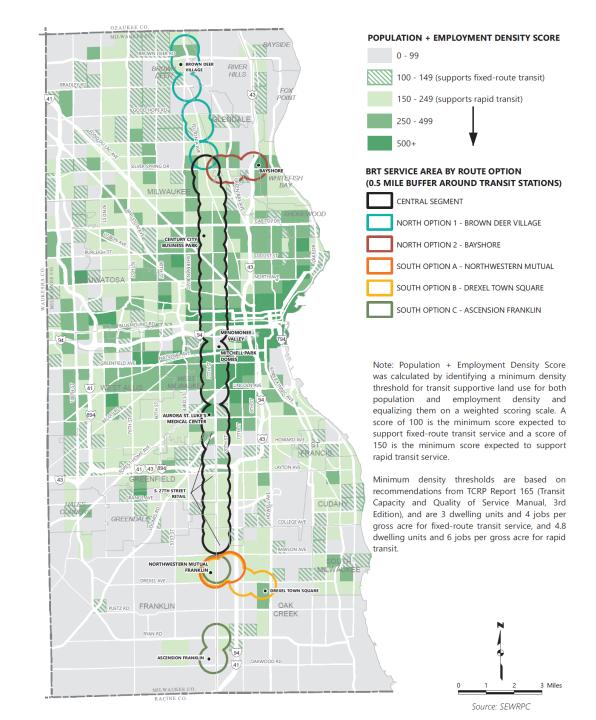
A new Route 27 will be added with less frequent service to cover existing stops.

Changes to better connect the existing Routes 12 and 80 to proposed BRT route options were also evaluated but not included in the recommended alternative.



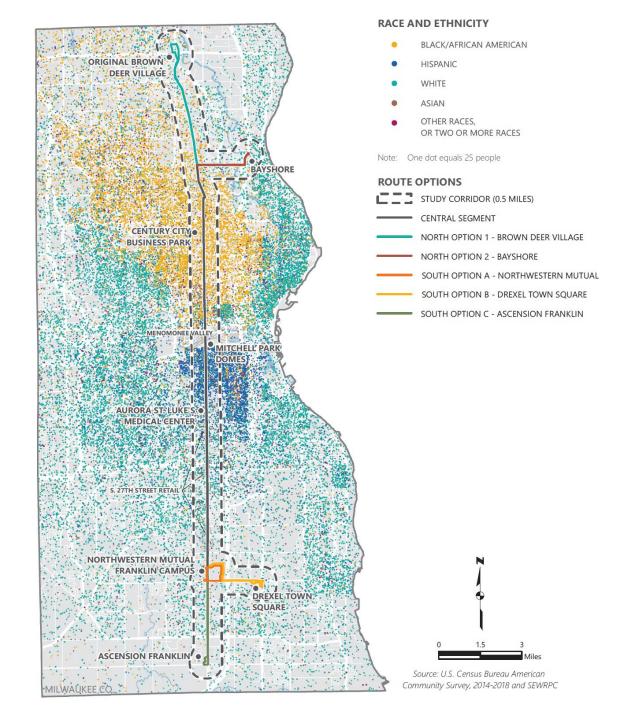
POPULATION + EMPLOYMENT DENSITY SCORES

- Density scores rate transit supportive areas considering people and jobs and served
- Scores above 150 would support rapid transit service



RACE AND ETHNICITY

Distribution of Black/African American, Hispanic, White, Asian, and other populations within a half mile of the route options



POPULATION BY RACE AND ETHNICITY

Summary Results by Route Alternative (using a half mile buffer around stations)

	People of Color									
	Black/African	American Indian and	Asian and	Other Race, Two or More		White Alone,	Non-Hispanic	Total Peop	le of Color	Total
Route Option	American	Alaska Native	Pacific Islander	Races	Hispanic/Latino	Number	Per Mile	Number	Per Mile	Population
North Option 1 to South Option A	44,600	560	7,400	4,100	33,700	23,900	1,170	90,400	4,420	114,300
North Option 1 to South Option B	44,700	570	7,600	4,200	34,000	25,500	1,150	91,000	4,120	116,500
North Option 1 to South Option C	44,600	560	7,600	4,100	33,800	24,600	1,070	90,700	3,950	115,300
North Option 2 to South Option A	40,500	550	7,000	3,800	33,500	23,500	1,310	85,400	4,750	108,900
North Option 2 to South Option B	40,600	560	7,200	3,900	33,700	25,200	1,290	86,000	4,390	111,200
North Option 2 to South Option C	40,500	550	7,200	3,800	33,500	24,200	1,180	85,700	4,180	109,900

Source: U.S. Bureau of the Census (2020) and SEWRPC

HOUSEHOLDS WITHOUT A CAR

Route Option	Total Households	Households Without a Car	Per Mile
North Option 1 to South Option A	41,660	9,400	460
North Option 1 to South Option B	42,480	9,410	430
North Option 1 to South Option C	41,980	9,420	410
North Option 2 to South Option A	39,330	9,110	510
North Option 2 to South Option B	40,150	9,130	470
North Option 2 to South Option C	39,650	9,140	450

Source: U.S. Bureau of the Census American Community Survey (2015-2019) and SEWRPC

PEOPLE WITH DISABILITIES

Route Option	Total Population	People with Disabilities	Per Mile
North Option 1 to South Option A	112,500	16,740	820
North Option 1 to South Option B	114,470	16,960	770
North Option 1 to South Option C	113,370	16,810	730
North Option 2 to South Option A	107,360	16,090	890
North Option 2 to South Option B	109,330	16,310	830
North Option 2 to South Option C	108,230	16,160	790

Source: U.S. Bureau of the Census American Community Survey (2015-2019) and SEWRPC

FAMILIES IN POVERTY

Route Option	Total Families	Families in Poverty	Per Mile
North Option 1 to South Option A	24,060	6,410	310
North Option 1 to South Option B	24,580	6,430	290
North Option 1 to South Option C	24,280	6,410	280
North Option 2 to South Option A	22,850	6,220	350
North Option 2 to South Option B	23,370	6,240	320
North Option 2 to South Option C	23,080	6,220	300

Source: U.S. Bureau of the Census American Community Survey (2015-2019) and SEWRPC

RIDERSHIP

Ridership forecast ranges using base numbers from 2021 (lowest) and pre-Covid 2019 (highest)

Route Option	2025 Ridership Range	Percent Increase from PurpleLine	Per Mile Range
North Option 1 to South Option A	5,770 to 11,750	57% - 78%	280 - 570
North Option 1 to South Option B	5,770 to 11,690	57% - 77%	260 - 530
North Option 1 to South Option C	6,560 to 12,280	78% - 86%	290 - 530
North Option 2 to South Option A	5,390 to 10,510	47% - 59%	300 - 580
North Option 2 to South Option B	5,440 to 10,570	48% - 60%	280 - 540
North Option 2 to South Option C	6,000 to 10,800	63%	290 - 530
No Build - PurpleLine	3,670 to 6,610		200 - 370

Source: SEWRPC

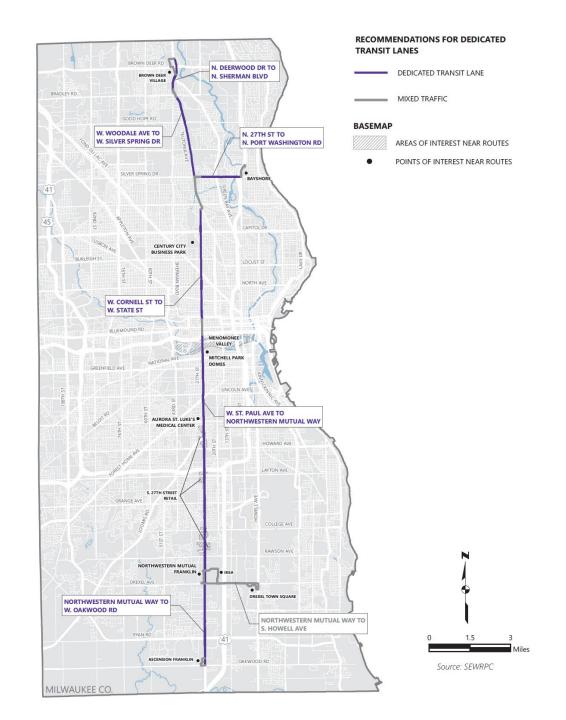
BUS-ONLY LANES

Benefits:

- Greatly improves reliability
- Provides traffic calming which improves safety
- Travel time savings

Impacts:

- Traffic delays in select locations are expected during short periods of the day
- Reduction of on-street parking for residents and businesses
- Bike lanes may be impacted or need to be modified



CONFIGURATION OPTIONS: Protecting Bus-only Lanes

- Recommendation for lane protection to reduce reckless driving
- Paint may not prevent drivers from using bus-only lanes
- Various physical barriers could be used to separate bus-only lanes from other travel lanes
- Consideration will be given to snow removal and other maintenance activities



Large Bumps



Pre-cast or cast-in-place concrete curb



Rigid bollards

CAPITAL COST

Route Option	Route Length (one way, miles)	Cost (year of expenditure, 2022 - 2026)
North Option 1 to South Option A	20.4	\$163,738,600
North Option 1 to South Option B	22.1	\$175,582,100
North Option 1 to South Option C	23.0	\$175,266,300
North Option 2 to South Option A	18.0	\$148,150,700
North Option 2 to South Option B	19.6	\$162,084,100
North Option 2 to South Option C	20.5	\$162,885,400

Source: SEWRPC

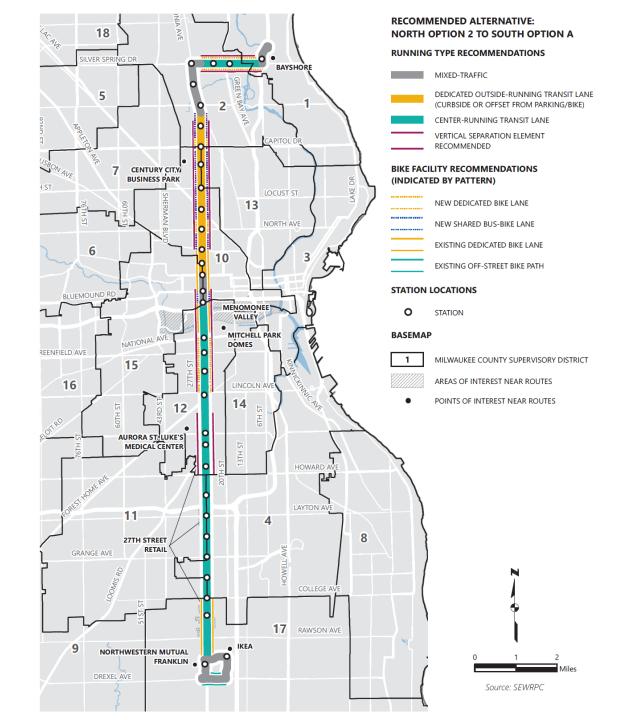
OPERATING COST

	Operating and Maintenance Costs (includes changes to other transit routes)			
Route Option	Annual Platform Hours	Net Change to Annual O&M Cost (2027)		
North Option 1 to South Option A	94,591	\$4,745,100		
North Option 1 to South Option B	103,369	\$5,910,000		
North Option 1 to South Option C	97,271	\$5,100,800		
North Option 2 to South Option A	86,553	\$4,027,700		
North Option 2 to South Option B	93,357	\$4,930,600		
North Option 2 to South Option C	91,818	\$4,726,300		

Source: SEWRPC

RECOMMENDED ALTERNATIVE

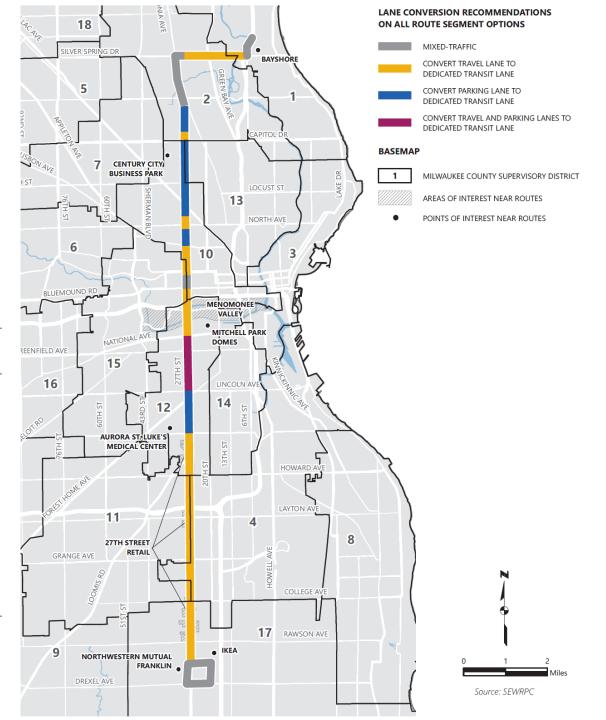
RECOMMENDED ALTERNATIVE: North Option 2 to South Option A



TRAVEL AND PARKING LANE CONVERSIONS TO DEDICATED TRANSIT

Parking Spaces Impacted

Route Alternative	Number of Parking Spaces Impacted	Percent Residential	Percent Commercial	Total Parking Spaces	Percent of Total Parking Impacted
North Option 1 to South Option A	2,438	58	42	3,464	70
North Option 1 to South Option B	2,438	58	42	3,489	70
North Option 1 to South Option C	2,438	58	42	3,464	70
North Option 2 to South Option A	1,527	74	26	2,416	63
North Option 2 to South Option B	1,527	74	26	2,441	63
North Option 2 to South Option C	1,527	74	26	2,416	63



RECOMMENDED ALTERNATIVE: N2SA

- Capital Cost: \$148.15M
- Net Operating Cost (includes changes to other transit routes in 2027): \$4.03M per year
- BRT Stations: 63
- Electric BRT Vehicles: 24
- Route Length: 18 Miles (one way)
- Dedicated Transit Lanes: 14.2 Miles (79%)
- New Dedicated Bike Lanes: 6.7 Miles
- Existing bike lanes converted to shared bike/bus lanes: 6.2 Miles
- Converted Travel Lanes: 10.4 Miles
- Travel time savings: approximately 15 minutes during congested periods
- Converted Parking Spaces: 1,527

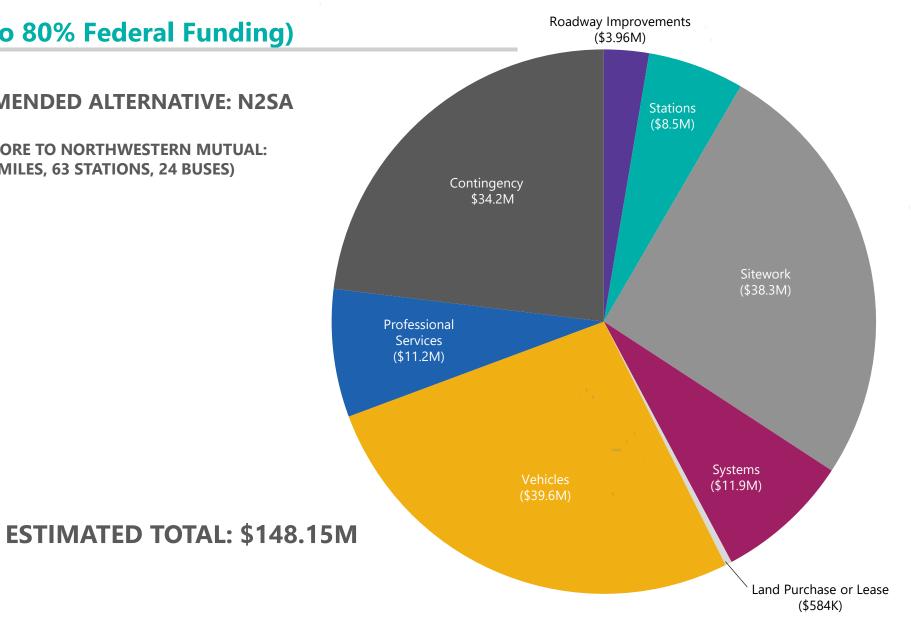
Number of Parking Spaces Impacted	Percent Residential	Percent Commercial	Total Parking Spaces	Percent of Total Parking Impacted	
1,527	74	26	2,416	63	

N2SA: CAPITAL COST ESTIMATES

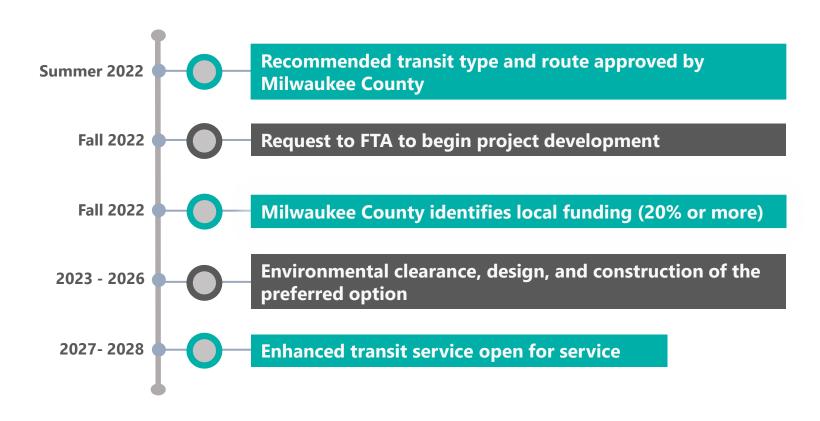
(Potentially Up to 80% Federal Funding)

RECOMMENDED ALTERNATIVE: N2SA

(BAYSHORE TO NORTHWESTERN MUTUAL: 18 MILES, 63 STATIONS, 24 BUSES)



AFTER THE STUDY: NEXT STEPS



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