



West Broad BRT Update

August 28th, 2023

West Broad Street Corridor



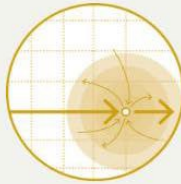
Typical Small Side Station



The Role of a Station

1 Gateway

Stations are gateways to the transit system and neighborhoods. They facilitate wayfinding and provide a first impression.



2 Choreograph Movement

Transit stations and intersection design impact and facilitate the movements of all street users including transit riders, transit vehicles, drivers, cyclists, and pedestrians. A well designed station facilitates and organizes movement and eases interactions.



3 Universal Access

Universal Design is Equitable Design. The station area design should insure users of all ages and abilities can safely access and utilize the transit system.



4 Mobility Hub

The primary role of the transit system is to transport users from one place to another. The first mile and last mile of trips almost always involves a second mode of transportation such as walking, cycling, driving, ride share, or transferring other types of transit.



5 Safety and Comfort

Stations serve as waiting areas for transit users. Safety and comfort has a tremendous impact on rider satisfaction and influence decisions about where and when people will use transit.



6 Placemaking

Transit stations are a natural focal point of activity and street life. Stations can create communal places that support and enhance community identity and provide places for gathering, activities, and services.



Planning & Design Principles

1

Usability

Maximizing circulation, seating, and lighting with multipurpose elements in the canopy.

2

Operability

Fewer components have fewer system failures and require less maintenance.

3

Simplicity

Fewer components and optimizing where amenities are integrated versus floating.

4

Community

Expresses community identity through graphic art board on the center wall.

5

Identity

The sculptural quality creates a unique and legible shelter, while the thin profile and minimal components are adaptable and unobtrusive to a neighborhood's context.

6

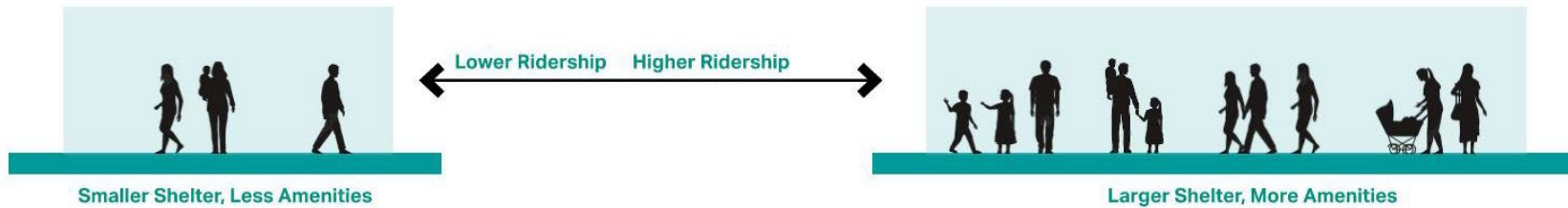
Resiliency

Floating amenities are used where technological changes are likely to occur so that they can be updated while the formal and operational integrity of the canopy structure remains intact.



Station Location & Sizing Criteria

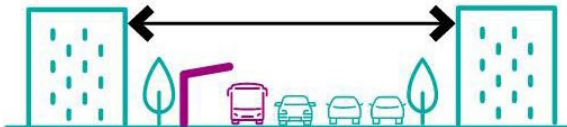
Estimated Ridership



Station Context



Spatial Constraints



Community Design Engagement



Whitehall Community Input Session

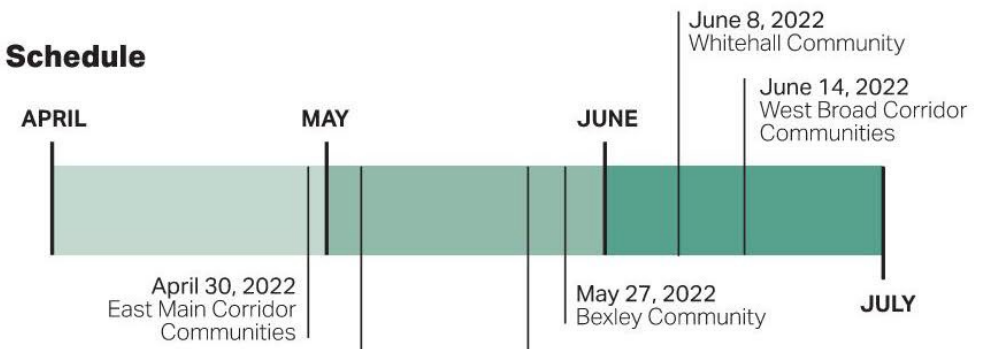


Bexley Community Input Session

Community Design Input Sessions

In an effort to understand community priorities and to collect input to inform concept development of the stations, the design team facilitated six community-inspired design sessions during early conceptual design. Community members were given an opportunity to tell the story of their neighborhood or city and look at examples of BRT station design in other cities to provide feedback.

Schedule








Station Amenities





Furnishings

-  Bus Shelter
-  Wind Screen
-  Seating
-  Lean Rail
-  Waste/ Recycling Receptacles

Micro-Mobility

-  Bike Rack
-  Covered Bike Rack
-  Bike Locker
-  E-Bike Charging Station
-  Bike Share Station
-  Scooter Corral
-  Bike Repair Station
-  Front of Bus Bike Racks
-  Bike Racks Inside Bus

Sustainability

-  Permeable Pavement
-  Solar Panels
-  Green Roof
-  Green Stormwater Infrastructure
-  Street Trees
-  Native Landscaping





Wayfinding & Signage

-  Wayfinding Beacon (Vertical Station Marker)
-  Real-Time Bus Arrival Display
-  System Map
-  Station Vicinity Map
-  Bus Schedule
-  Marketing/Advertising Panel
-  Community Art Wall

Technology & Infrastructure

-  Ticket Vending Machine
-  Fare Validator
-  Security Cameras / CCTV
-  Emergency Call Box
-  Lighting
-  USB / Device Charging Station
-  Internet / Wifi
-  Snow Melt Pavement
-  Heating
-  PA System / Audio / Music
-  Landscape Irrigation
-  Water Connection

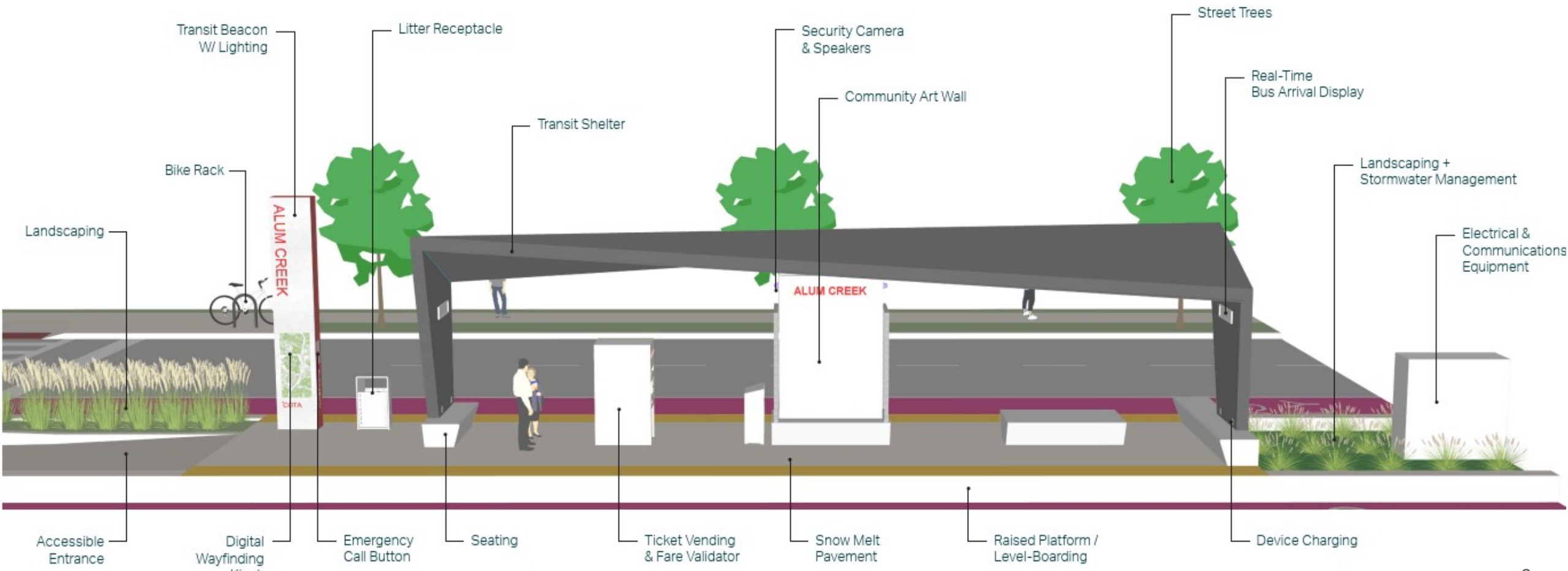
Park & Ride

-  Parking Lot / Garage
-  Car Share Parking Spaces
-  Electric Car Charging Stations
-  Pickup / Dropoff / TNC
-  Car/Van Pool Parking

End of Line

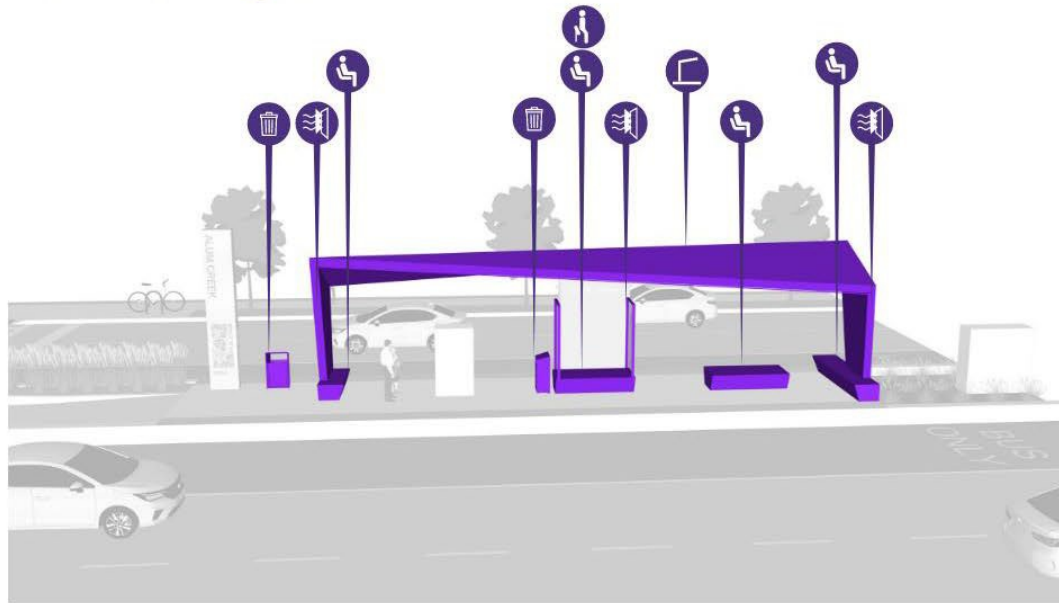
-  Bus Layover Parking
-  Bus Charging Facility
-  Driver Comfort Station
-  Public Restroom

Station Amenities



Station Amenities

Furnishings



Bus Shelter



Wind Screen: Attached at center wall. Precast end walls double as additional windscreens.



Seating: Cast-in-place at end walls and center wall.

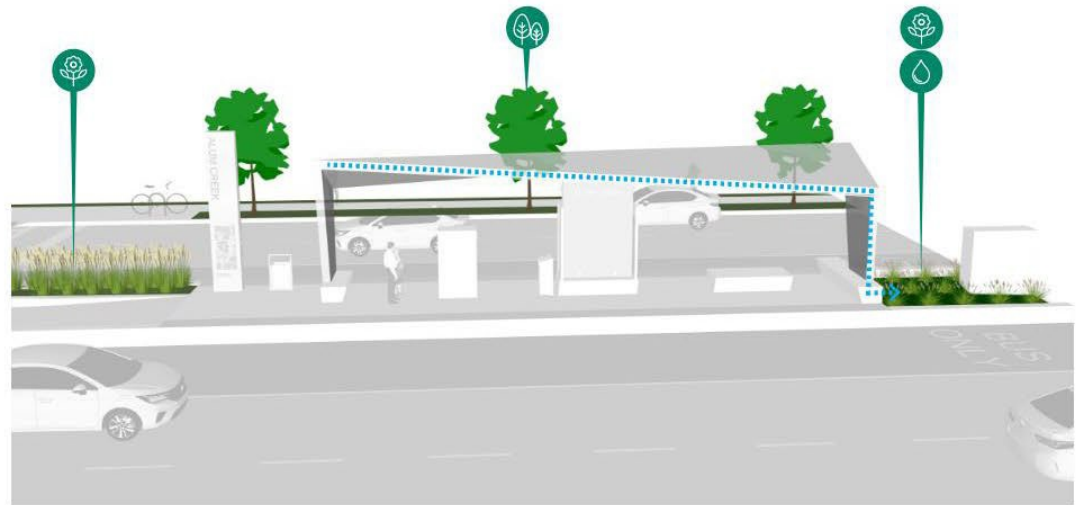


Lean Rail: Integrated at center wall and windscreens.



Waste/Recycling Receptacles

Sustainability



Green Stormwater Infrastructure: Integrated gutter drains stormwater to bioswale



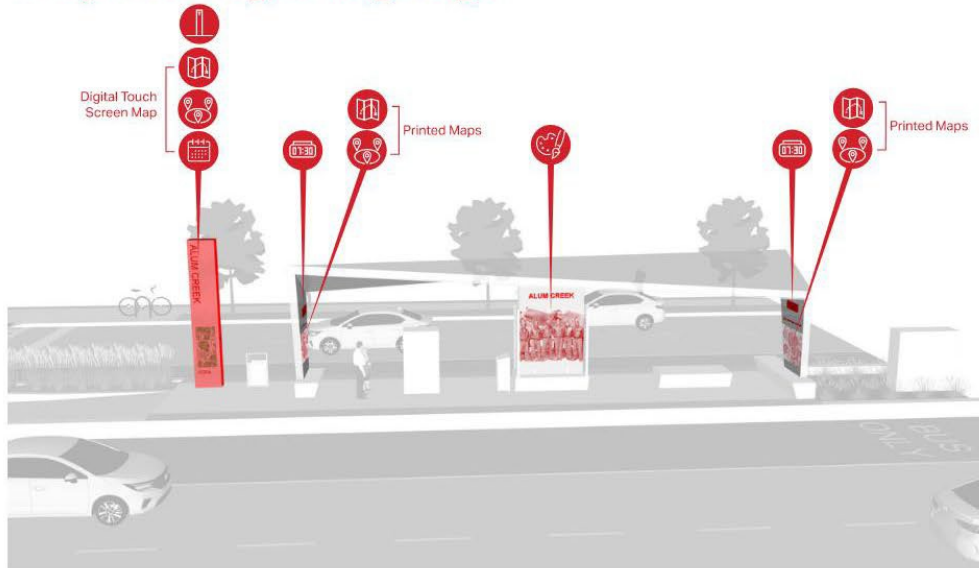
Street Trees



Native Landscaping

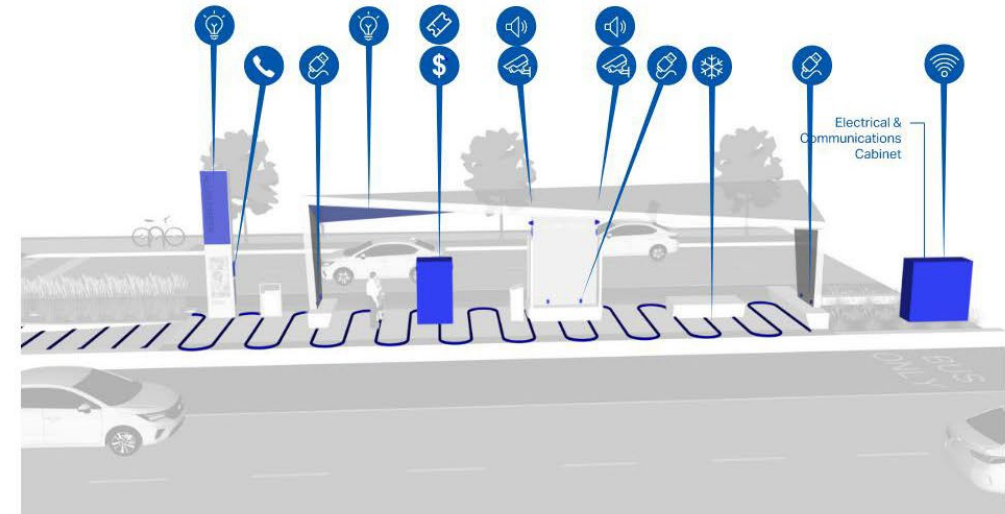
Station Amenities

Wayfinding & Signage



- Wayfinding Beacon (Vertical Station Marker)
- Real-Time Bus Arrival Display
- System Map
- Station Vicinity Map
- Bus Schedule
- Community Art Wall: Backlit community art wall with interchangeable graphic

Technology/Infrastructure



- Ticket Vending Machine
- Fare Validator
- Security Cameras / CCTV
- Emergency Call Box
- USB / Device Charging Station
- Internet / Wifi
- Snow Melt Pavement
- PA System / Audio / Music
- Lighting
- Electrical & Communications Cabinet