New Britain Avenue at White Street & Chandler Street Roundabout

Project Scope

The project entails the removal of the existing traffic signal and construction of a modern roundabout at the intersection of New Britain Avenue at White Street and Chandler Street. A concept plan showing the roundabout configuration is shown on the following page.

Project Goals

- Calm traffic along New Britain Avenue
- Improve safety
- Reduce traffic congestion
- Improve walkability
- Enhance aesthetics with landscaping
- Relocate and enhance prominence of Veteran's monument on Chandler Street

Comments?

For questions or comments on the project, please write to **Charles Baker**:

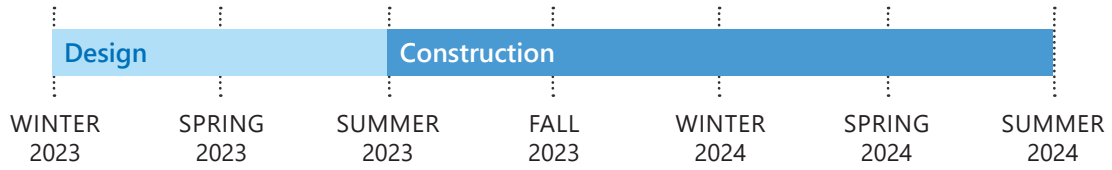
charlesbaker@vhb.com

Funding

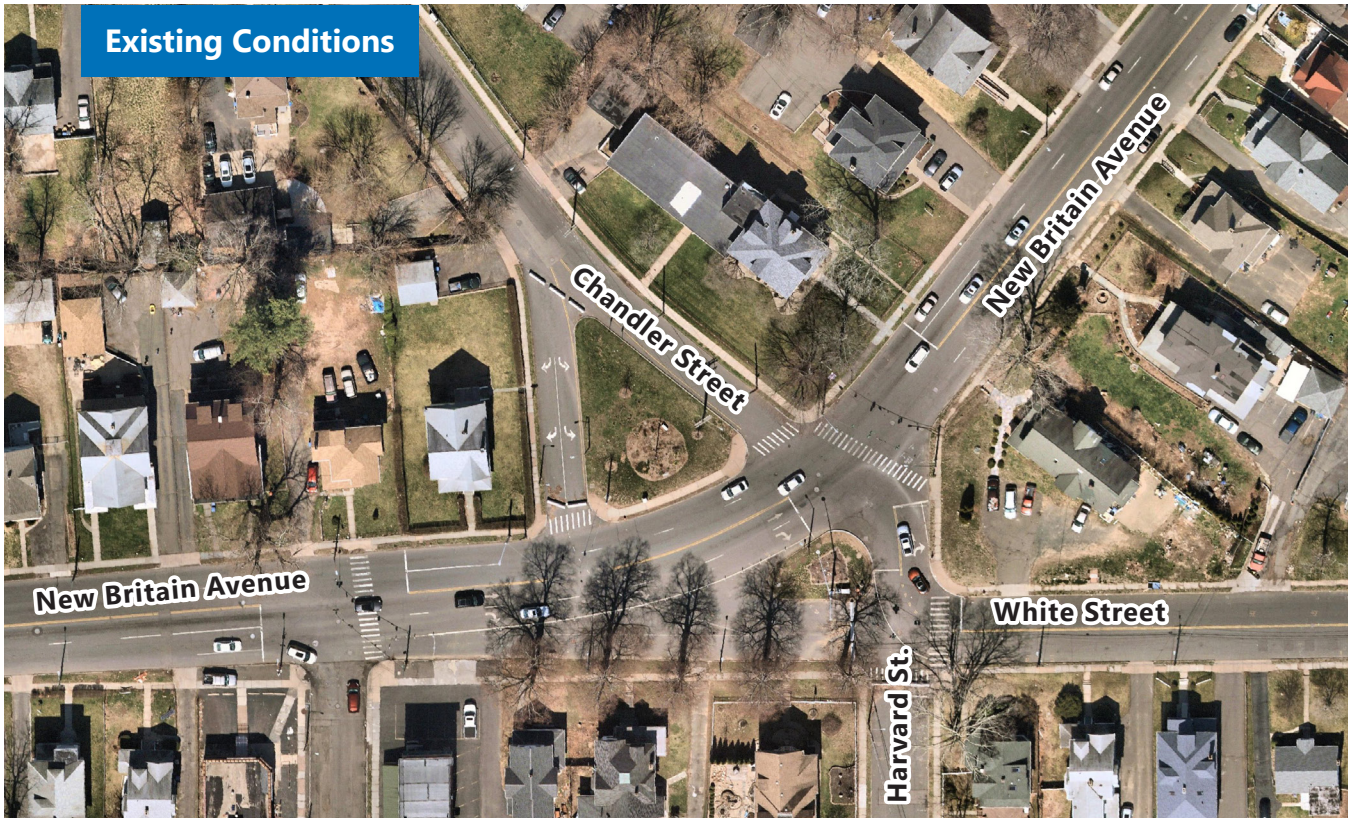
The City of Hartford has applied for $2.8 Million in State funding from the Local Transportation Capital Improvement Program (LOTCIP).

Schedule

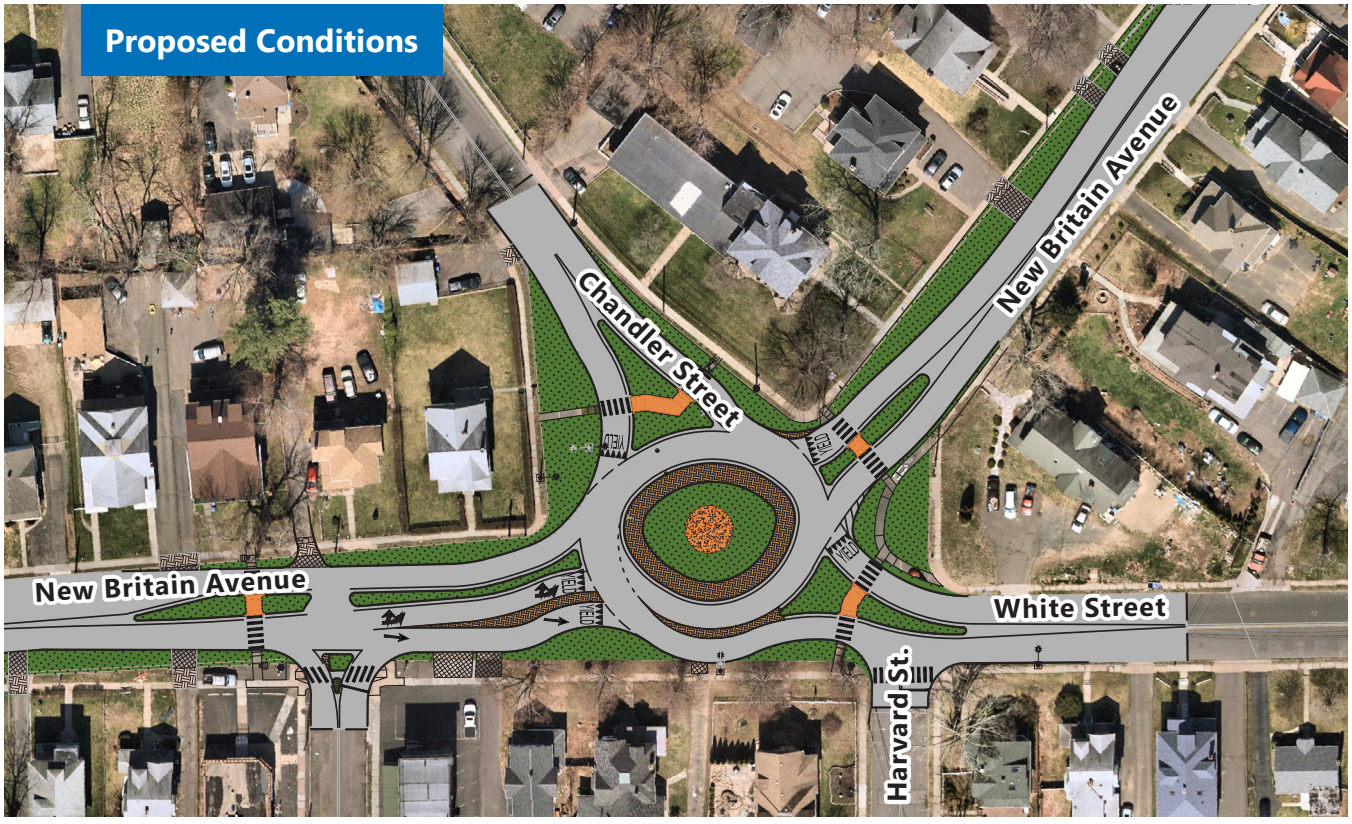
Design is underway and planned to be completed in Spring 2023. **Construction** is planned to begin in Summer 2023 and completed in Summer 2024.



Existing Conditions



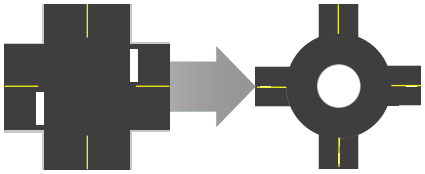
Proposed Conditions



U.S. Department of Transportation
Federal Highway Administration

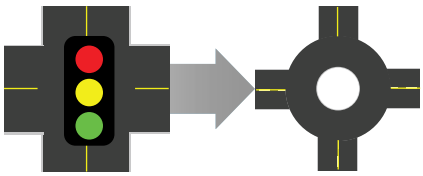
Safety Benefits:

Two-Way Stop-Controlled Intersection to a Roundabout



82%
reduction in fatal and injury crashes.[1]

Signalized Intersection to a Roundabout



78%
reduction in fatal and injury crashes.[1]

For more information on this and other FHWA Proven Safety Countermeasures, please visit https://safety.fhwa.dot.gov/provencountermeasures/ and https://safety.fhwa.dot.gov/intersection/roundabouts/index.cfm.

FHWA-SA-21-042

Roundabouts

The modern roundabout is an intersection with a circular configuration that safely and efficiently moves traffic. Roundabouts feature channelized, curved approaches that reduce vehicle speed, entry yield control that gives right-of-way to circulating traffic, and counterclockwise flow around a central island that minimizes conflict points. The net result of lower speeds and reduced conflicts at roundabouts is an environment where crashes that cause injury or fatality are substantially reduced.

Roundabouts are not only a safer type of intersection; they are also efficient in terms of keeping people moving. Even while calming traffic, they can reduce delay and queuing when compared to other intersection alternatives. Furthermore, the lower vehicular speeds and reduced conflict environment can create a more suitable environment for walking and bicycling.

Roundabouts can be implemented in both urban and rural areas under a wide range of traffic conditions. They can replace signals, two-way stop controls, and all-way stop controls. Roundabouts are an effective option for managing speed and transitioning traffic from high-speed to low-speed environments, such as freeway interchange ramp terminals, and rural intersections along high-speed roads.

Illustration of a multilane roundabout. Source: FHWA

Example of a single-lane roundabout. Source: FHWA

1 AASHTO. The Highway Safety Manual, American Association of State Highway Transportation Professionals, Washington, D.C., (2010).