

Middlefield Road Improvement Project

*Department of Public Works
Status / Update*

July 25, 2024

Project Limits and Key Components

Roadway Improvements:

- Pacific Avenue to Fifth Avenue (0.5 mi)

Utility Undergrounding:

- MacArthur Avenue to and Fifth Avenue

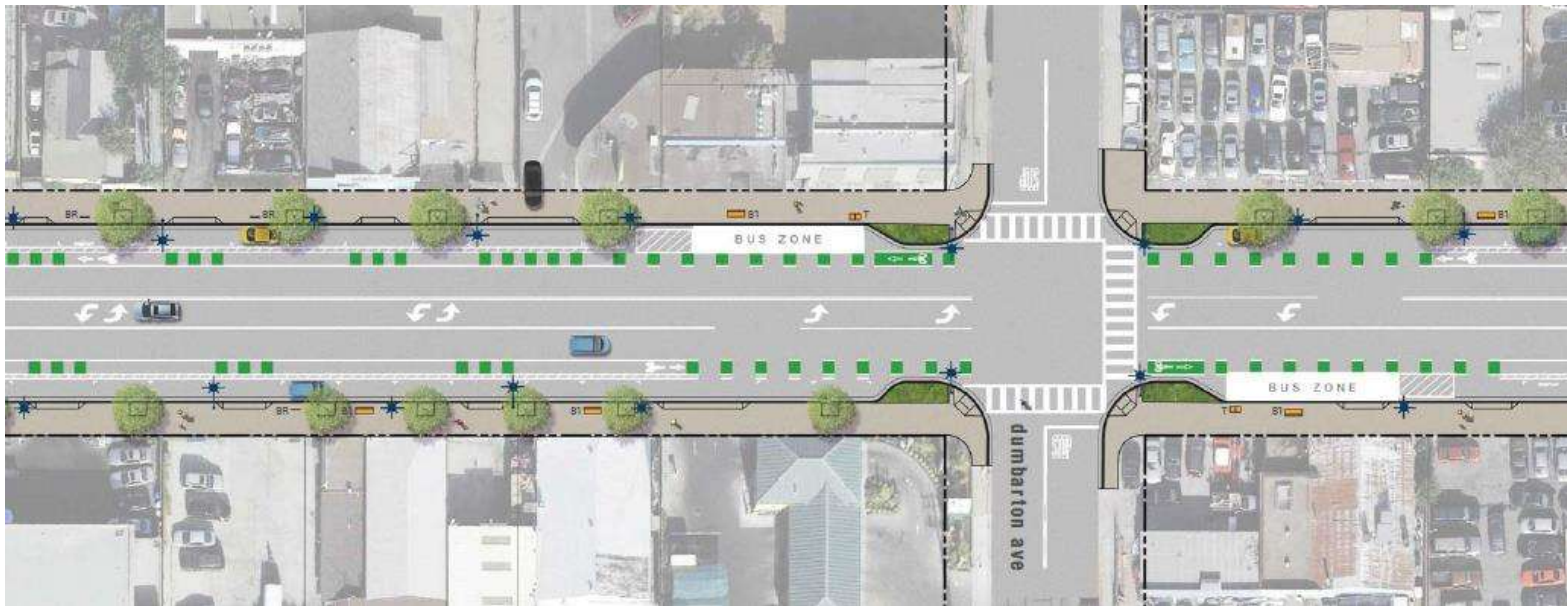
Sanitary Sewer Replacement:

- Douglas Avenue to Sixth Avenue

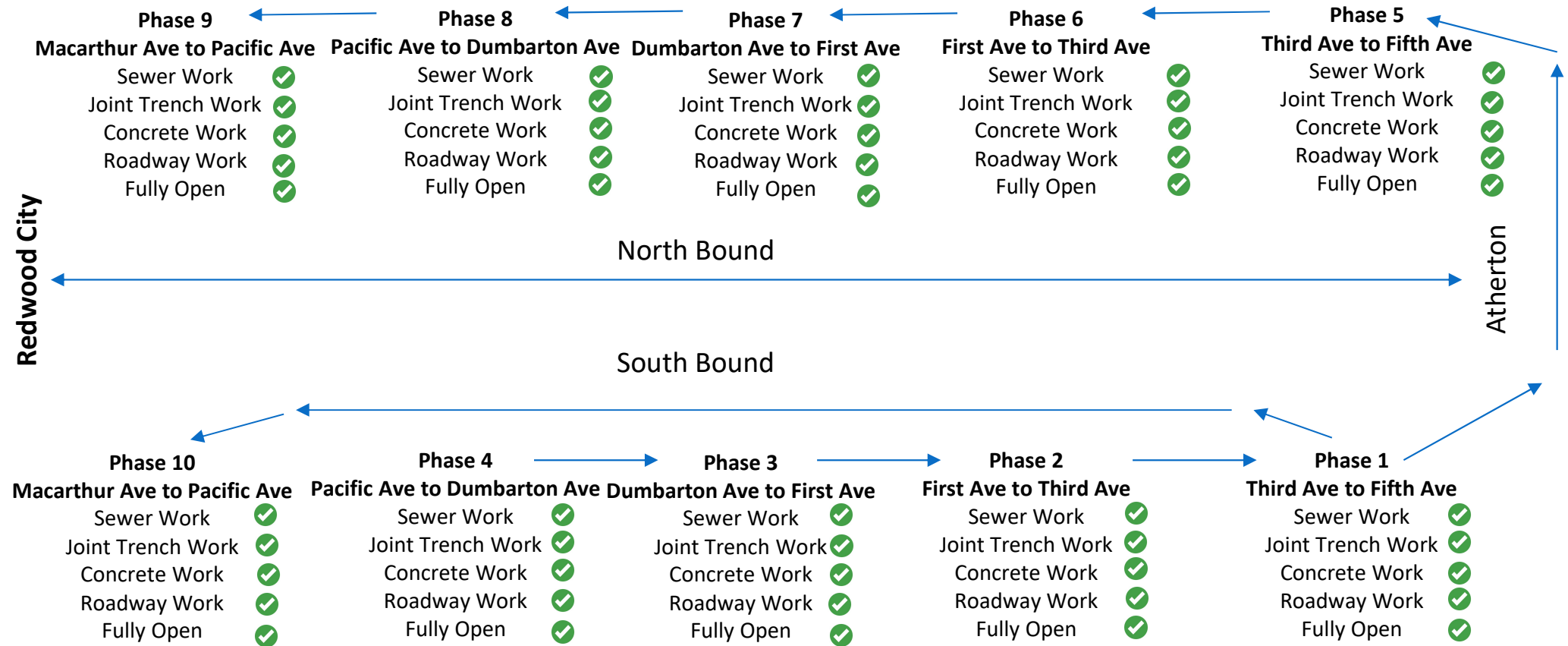


General Layout and Elements

- New lane configuration: 1 lane in each direction
- Widened Sidewalks
- Street Lights
- Buffered Bike Lanes
- High Visibility Crosswalks
- Rectangular Rapid Flash Beacon (RRFB)
- Traffic Signals
- Street Trees
- Bike Racks, Benches, Trash Receptacles
- Public Wifi, Smart features
- Undergrounding Overhead Utilities
- Green Infrastructure/stormwater treatment features



Project Phases, Progression of Work and Status



Construction

Night time Paving



Construction

Joint Trench Jack and Bore Under Railroad Tracks



Construction

Joint Trench Jack and Bore Under Railroad Tracks



Construction

Fire Department Connector (FDC) Relocation in front of Health Clinic/Redwood Junction



Construction

Final Striping



Construction

Final Striping



Construction

Final Striping



Construction

Street Furniture (Bike Rack) Trees and Green Infrastructure Landscaping



Construction

Decorative Benches at Middlefield Road and 2nd Avenue



Remaining Future Work

Utilities Undergrounding overhead lines (18-24 months duration)

- PGE
- AT&T
- Verizon
- Wave
- Atherton Fiber
- Comcast

Health Clinic/Redwood Junction Traffic Signal activation (1-3 months duration)

- Dependent on Union Pacific Rail Road (UPRR) signal installation

Health Clinic drive way relocation (3-6 months duration)

- Dependent on UPRR signal installation

Sidewalk concrete work

- Minor sidewalk work and 2 trees to be installed after PG&E relocates their existing infrastructure.

Holiday Lights

- Will be installed prior to energizing of underground power system

Traffic Control Requests

Traffic Signs and Traffic Lights

- **Department has a process to request a traffic sign**
- Can be found on the County website here: <https://www.smcgov.org/publicworks/traffic-signs-lights>
- Additional information including “A Citizens Guide for STOP signs in San Mateo County” is available at website link above
- STOP sign requests are evaluated through our Traffic Engineering team



**A Citizen's Guide for
STOP signs in San
Mateo County**



**Department of Public Works
Road Operations**



Traffic Control Requests

STOP Signs on Middlefield Road

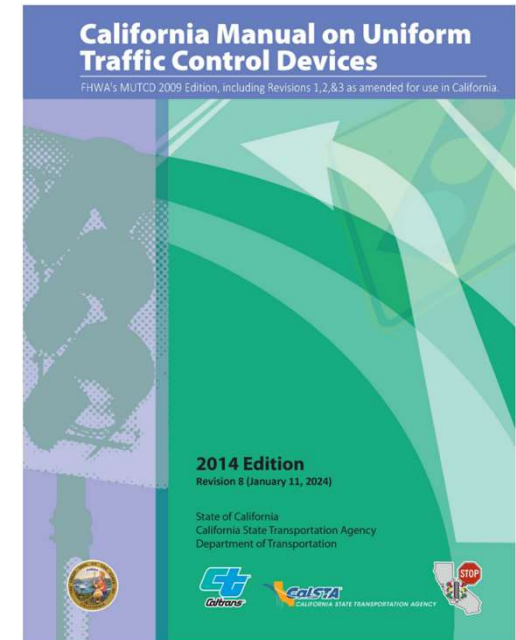
- **Main purpose of STOP signs are to assign right-of-way at intersections**
- Studies have shown that STOP signs are ineffective speed control devices
- Un-warranted STOP signs can increase traffic congestion with little or no gain in safety, and can even reduce safety
- Excessive use of stop signs reduce the credibility of all stop signs, and increase stop sign violations and also speeding up after the stop sign to regain “lost time”
- Pedestrian and rear-end accidents tend to increase as stop signs present a false sense of security



Traffic Control Requests

STOP Sign warrants are used to determine whether or not a stop sign should be installed and analyze:

- Number of vehicles at the intersection (traffic volumes)
- Accident History
- Vehicular and Pedestrian conflicts
- Visibility
- High Concentrations of pedestrians or vehicles
- Regular use of intersection by children, elderly, or disabled
- Need to control left-turn conflicts
- Other unusual criteria that may be considered in an engineering study



Source: California Manual of Uniform Traffic Control Devices Section SB.07



Traffic Control Requests

- STOP sign warrants need to be conducted after traffic patterns are normalized after construction, traffic patterns will change again after the traffic signals are activated
- STOP signs cannot be implemented at controlled crosswalks, such as the crosswalks along Middlefield with the Rectangular Rapid Flashing Beacons
 - Dumbarton Ave
 - Second Ave
 - Fourth Ave
- The County will not be implementing STOP signs at this time, once traffic signal at Pacific Ave is operational and traffic patterns normalize, we can evaluate if STOP signs are warranted



Stay up to date

- Up to date construction information can be found at Middlefieldroad.org

- For questions or comments, contact us at:

Construction related information:

By phone at 650-363-4100 or by email at DPW_MiddlefieldRdProject@smcgov.org

All other project related information:

By phone at 650-363-1800 or by email at CommunityAffairs@smcgov.org



Questions?

