Project Background

- Recent Corridor Overview Process
  - Construction Sequencing
  - Detour Sequencing
  - Annual Funding Strategy
Vicinity Map

- NE 179th St. & NE 29th Ave.
Project Background

• This project will entail the reconstruction of the existing single lane all-way stop controlled intersection to a multi-lane (single-lane striped) roundabout.

• These upgrades are necessary to prevent concurrency failure and accommodate additional traffic volumes associated with future residential and commercial growth in the area.

• Clark Regional Wastewater District and Clark Public Utilities will be expanding and improving their sanitary and water systems as part of this project.

• Improvements to the County’s stormwater system is occurring with this project.
Presentation Outline

• Roundabout vs Signalized Intersection
• Lane configuration, interim and ultimate
• Traffic Visualization
• Property Impacts
• Bridge vs Culvert at Stream Crossings
• Environmental Impact and Mitigation
• Intersection and Corridor Aesthetics
Roundabout vs Signalized Intersection

- Safety – Roundabout projected to have $3x$ less fatal and injury crashes than signal

- Less queuing, congestion with roundabout option (LOS A vs LOS C)

- Life Cycle costs include safety, vehicle delay, construction costs, and maintenance
  - Roundabout option would be a ~$5 million lifetime savings over signal

- Documentation summarized in an Intersection Control Evaluation Report
Roundabout Lane Configuration

- Initially Constructed as a single lane roundabout
- Constructed footprint large enough to widen to two lane roundabout
- Traffic demand dictates when widening will occur
- Current forecast 2047, interim design projected to last 20+ years
Interim – Single Lane, Future – Double Lane
Traffic Simulation

- Opening year interim roundabout design
- **Interim Video**

- 2047 ultimate design
- **Ultimate Video**
Property Impacts

BOUT AT NE 179TH ST AND NE 28TH AVE
Bridge vs Culvert at Stream Crossings
Culvert Option
Bridge Option
Environmental Impacts and Mitigation

• Coho salmon and steelhead trout have been documented per WDFW
• Culvert under 29th is broken and is a fish barrier
• Habitat north of NE 179th is of low quality, east of 29th is better, in a biodiverse corridor that is protected with decent fish habitat
• Wetlands are present, both near the stream and some upland
# Environmental Impacts and Mitigation

## Table 3—Approximate Wetland and Stream Mitigation Areas

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Intersection and Corridor Aesthetics

• 1. Retaining Walls, visible and not visible from the street
• 2. Fencing
• 3. Stormwater Facilities
• 4. Illumination poles
• 5. Pedestrian accommodations
• 6. Crosswalks (hardscape)
• 7. Planter strip (between curb and shared path)
• 8. Truck aprons and Splitter Islands
• 9. Center of the roundabouts
Cross Section of NE 179th
Center of Roundabout Opportunities
Road Closure
Detour Route

Project Location

Detour Route
Project Funding

- Federal Grant
- Traffic Impact Fees
- County Road Funds
- Clark Public Utilities - Water
- Clark Regional Wastewater District
Current Project Schedule

- Property Acquisition Process – (April, 2022 – March, 2023)
- Environmental Permitting – (April, 2021 – March, 2023)
- Bid Opening / Award - Spring, 2024
- Anticipated Start of Construction – Summer, 2024
- Substantial Completion – Summer, 2026
Contact Information

• Project Manager
  • Scott Sawyer
  • 564-397-4364
  • scott.sawyer@clark.wa.gov

• Project Email Address: 179thstreetproject@clark.wa.gov

• NE 179th St. Project Website: https://clark.wa.gov/public-works/ne-179th-st-ne-29th-ave

• Public Works Customer Service: pubwks.cservice@clark.wa.gov
Questions

During a meeting, click 🌝 Raise Hand.

A raised hand 🌝 appears next to your name in the participants list.

If the host allows you to speak, you’re prompted to unmute yourself.

To lower your hand, click Lower Hand.

If your meeting has reactions, you can also raise and lower your hand from the Reactions menu, or use gesture recognition.
### Corridor Project Planning Display – Roundabout at Deffel Rd. & Interim NE 50th Ave. Option

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Total $83,700,000