# Stafford Road Improvements

## Pattulo Way to Rosemont Road


CLACKAMAS COUNTY

Improving safety at intersections and adding bike lanes along Stafford Road

Palisades Neighborhood Association

May 9, 2024

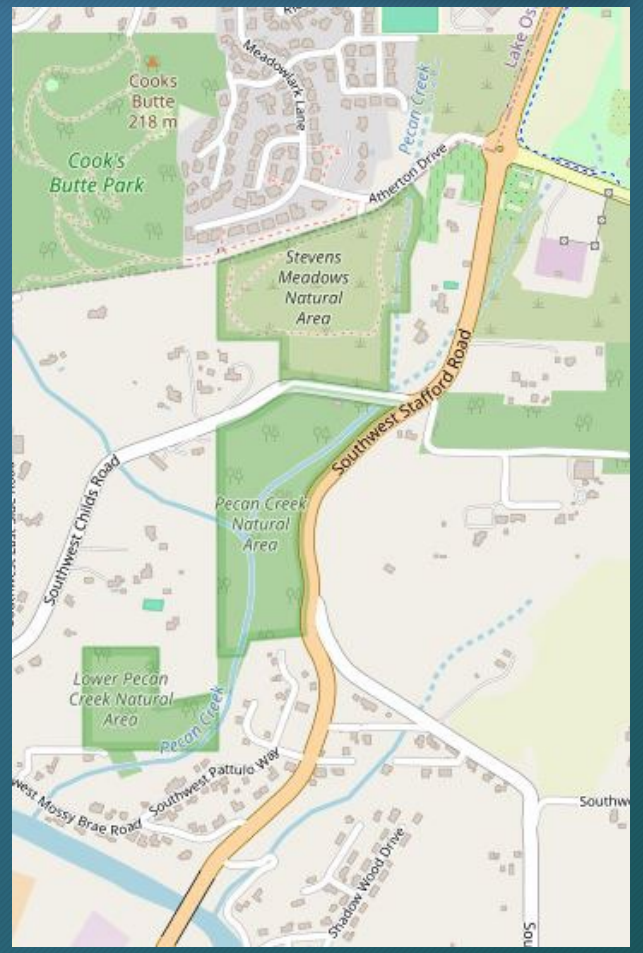
# Project Overview

## Why this project

- Improvements identified in Clackamas County's road safety audit (2018) and Transportation System Plan (2013, from public input)

## What project will do

- Widen Stafford Road to provide bike lanes between Pattulo Way and Rosemont Road
- Improve safety and capacity at Johnson Road and Childs Road intersections
- Enhance natural habitat around Pecan Creek

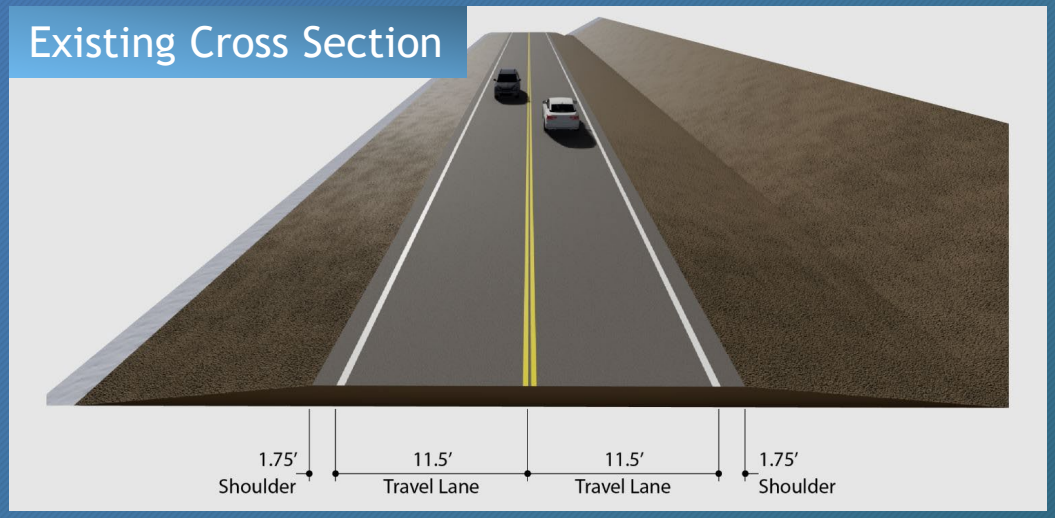


# Stafford Road Bike Lanes

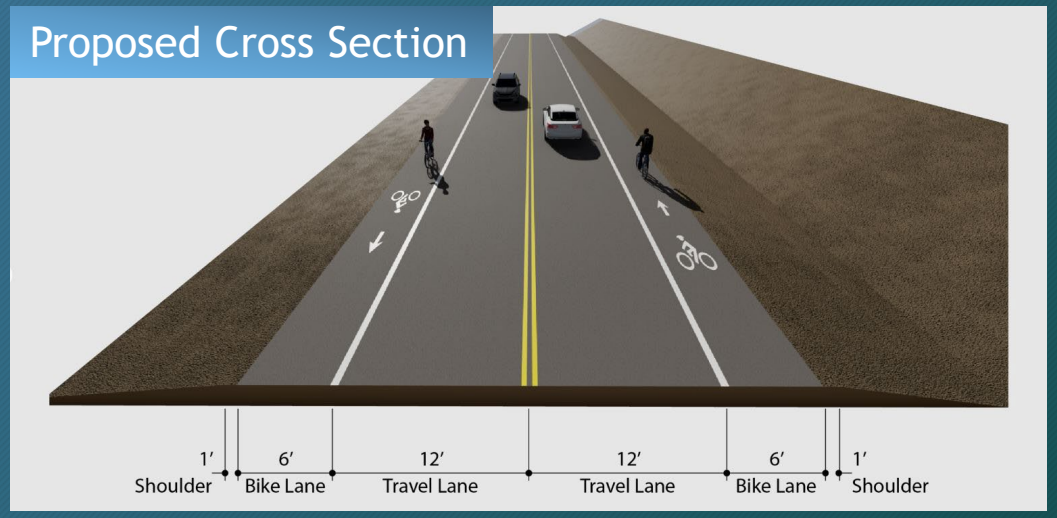
## Pattulo Way to Rosemont Road

- No existing bike lanes
- Connect bike lanes at Tualatin River bridge to multi-use path at Rosemont Road
- Cut slopes on east side; add guardrail on west side
- Improve cross slope and curves of roadway for a smoother ride

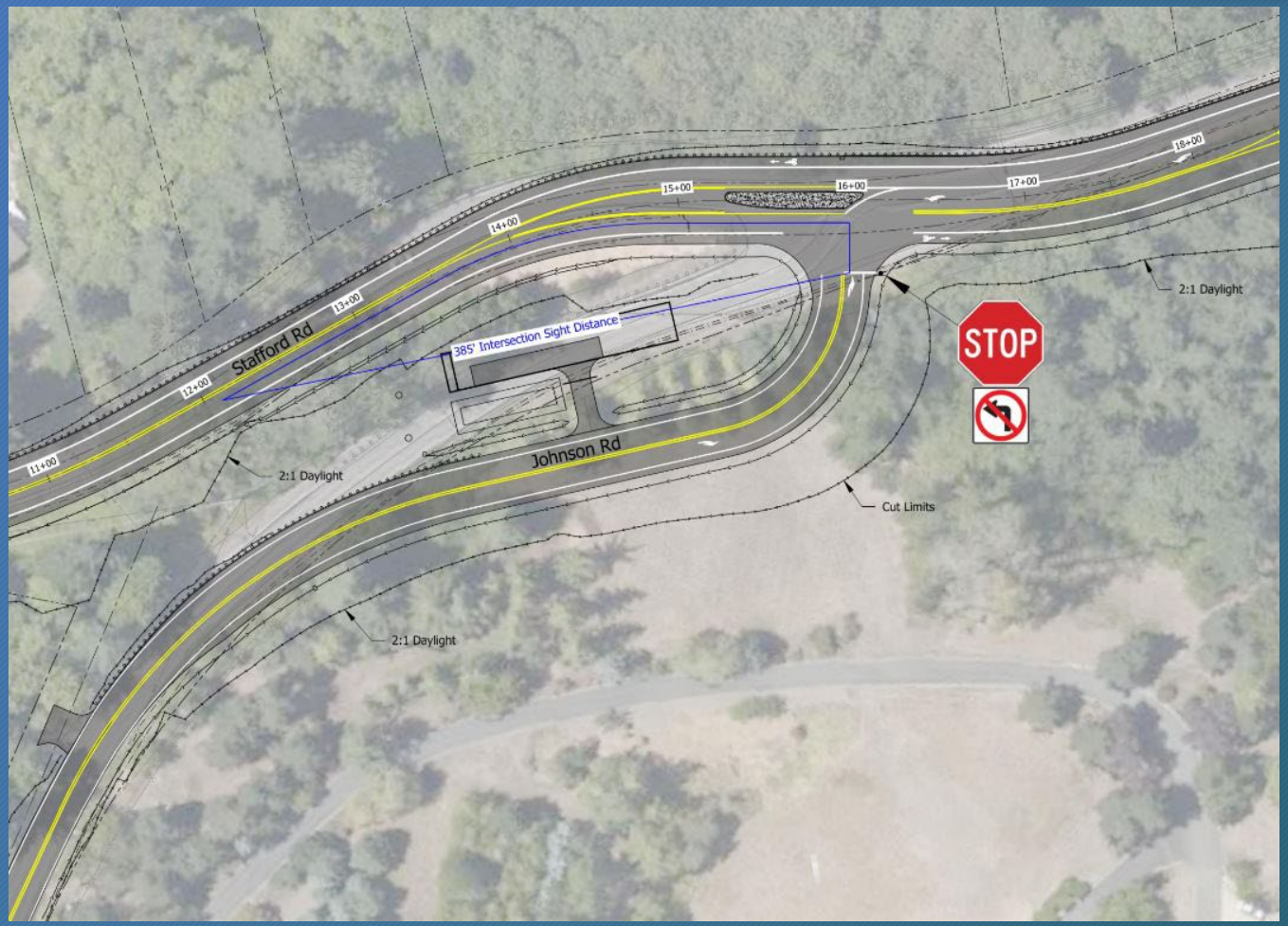
### Existing Cross Section




### Proposed Cross Section



# Johnson Road Intersection Improvements




## Realign Johnson Road

- Reduce steep grades on Johnson Road
- Eliminate intersection skew
- Increase sight distance

## Add southbound left-turn lane

- Reduce congestion on Stafford Road
- Expected to reduce rear-end crashes (14 rear-end crashes in last 5 years)

## Right-in, right-out only

- Reduce queuing on Johnson Road
- Eliminate significant left-turn conflict point (11 turning movement crashes in last 5 years)
- Turnaround at Childs Road roundabout alternative to left turn.

# Existing/Future Traffic Conditions

## Congestion

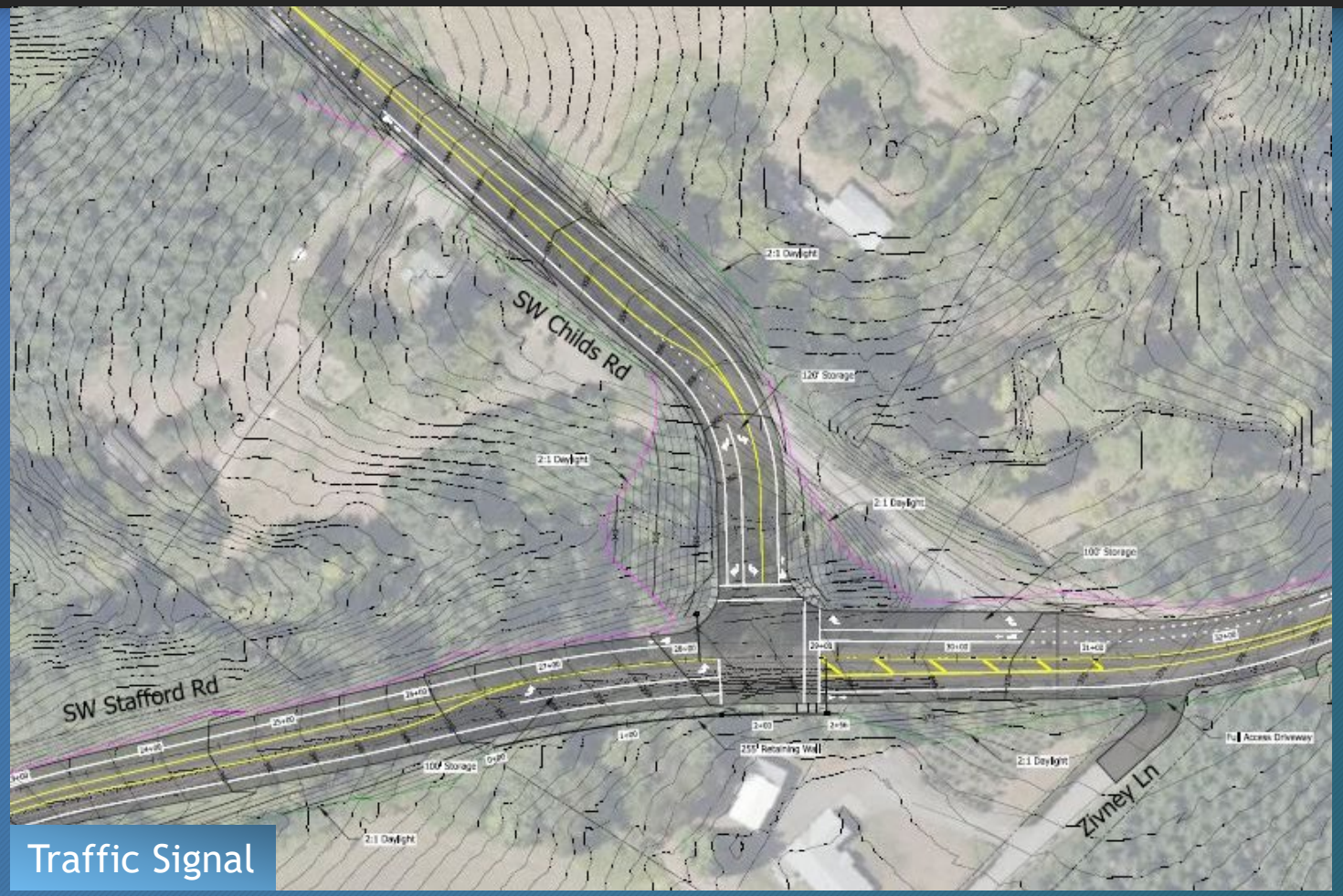
- 15,000 vehicles/day along Stafford Road (2022)
  (20,000 vehicles/day expected by 2040)
- 4-minute wait times eastbound on Childs Road (2022)
  (20+ minutes expected by 2040)

## Safety

- 35 crashes in last 5 years (2018-2022)
  (Childs Road and Johnson Road total)
- 20% increase in crashes expected by 2040
  (assuming 'no-build' option)


Intersection today

# Childs Rd Alternatives

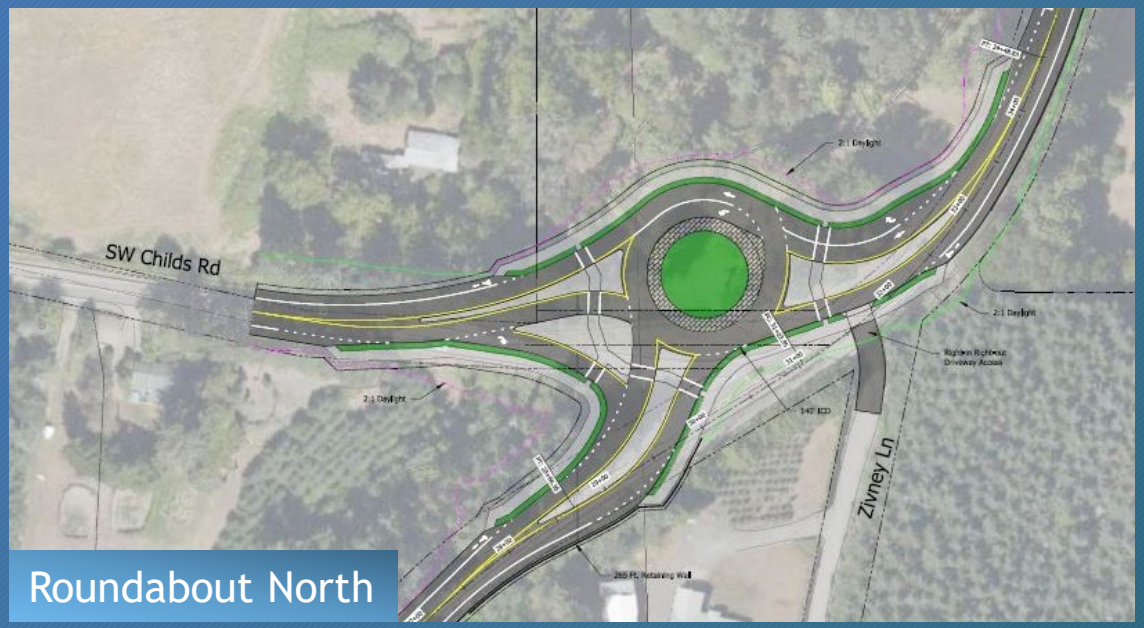



Traffic Signal

- Traffic signal would greatly improve traffic operations
- Traffic signal expected to increase total crashes by 80% compared to 'no-build'
- Signalized intersection needs to intersect at 90 degrees
- Significantly impacts Metro property (south) and property to the east (large retaining wall required); Impacts Lake Oswego property

# Childs Rd Alternatives

- Roundabout expected to decrease total crashes by 80% compared to ‘no-build’ (reduce conflict points and reduce speed of crashes)
- Roundabout intersection can be skewed (helps reduce entry speeds)
- Provides turnaround for vehicles from Johnson Road to travel southbound



Roundabout North

Roundabout South

# Evaluating Alternatives


- Very constrained intersection. Balance property impacts.
- Set roadside slopes to maximum allowable
- Utilize retaining walls where practical
- Add 6-ft bike lanes
- Utilize existing roadway alignment for proposed roundabout location
- Meet state and federal permitting requirements to minimize impacts to Pecan Creek
- Minimize impacts to Habitat Conservation Area (runs along Pecan Creek)

# Preferred Alternative


Roundabout South

- Use existing roadway alignment for proposed roundabout location
- Minimize impacts to adjacent properties
- Minimize impacts to natural habitat (Pecan Creek, wetlands, Metro property)
- Area adjacent to Pecan Creek has highest natural resource value
- Lowest lifecycle cost (construction, right-of-way, operations & maintenance, and safety)

# Improving Natural Habitat

- Remove existing fish barrier by replacing the Pecan Creek culvert with a new fish-passable culvert.
- Connect habitat to water and other habitat areas through the new culvert.
- Widen the creek to match active channel width identified in the Natural Resources Assessment.
- Install new stormwater management facilities to capture, detain and treat runoff before discharging into Pecan Creek.
- Utilize native landscaping materials to restore the impacted habitat to the extent possible with hundreds of native trees, and thousands of native shrubs and native grasses (includes mitigation planting to improve the buffer quality).
- Mitigate impacted habitat conservation area at 1.5:1 ratio.

Upstream view of Pecan Creek

Downstream view of Pecan Creek

# Community Outreach


CLACKAMAS COUNTY

## How we're connecting…

- Project Website
- Updates at Stafford Hamlet meetings
- Updates on social media
- Interested parties email list
- Direct mailers to adjacent residents
- Open houses
- Coordination with impacted property owners

www.clackamas.us/engineering/st-rd-improvements

Jonathan Hangartner, PE, *Project Manager*, 503-742-4649 jhangartner@clackamas.us