City of Camas

NW 6th and Norwood Open House Presentation





Opening Remarks and Introductions

- Scott Higgins, Mayor
 - Project Team
- Peter Capell, City Adminstrator
- Steve Wall, Public Works Director
- Robert Nova, WSDOT
- Jim (Curleigh) Carothers, Engineering Manager
 - HDJ Design Group Project Consultant
 - Greg Jellison, Principal and Project Manager
 - John Manix, Senior Traffic Engineer





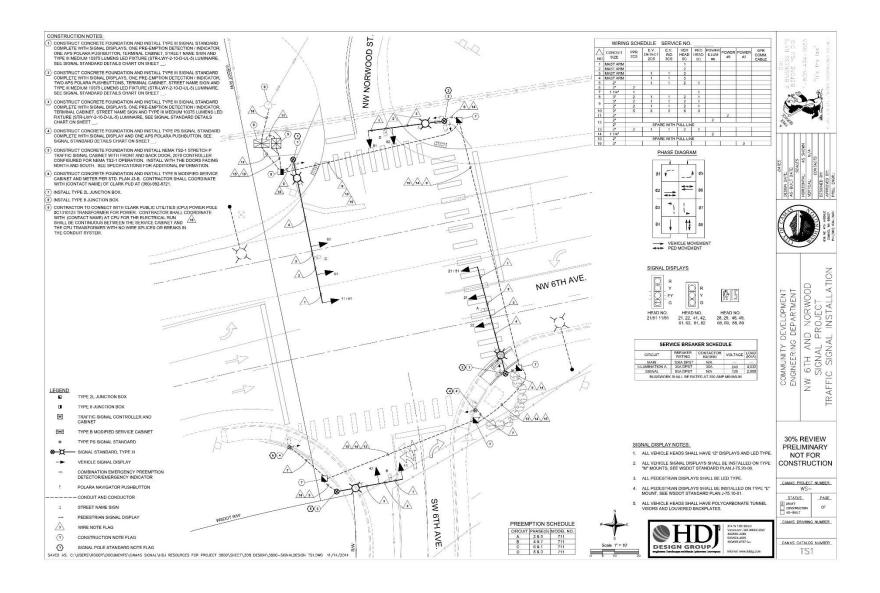
Existing Intersection







Signalized Intersection



Roundabout intersection







Plan View of Roundabout Rendering



Roundabout Rendering



Traffic Analysis

- Both a signal and roundabout will work
 - Traffic Signal
 - EB Queue in PM Peak is 14 cars in both lanes
 - Delay for WB Left Turns 46 Seconds
 - The Queue is stopped
 - Roundabout
 - EB Queue in PM Peak is 11 cars in one lane
 - Delay for all WB Vehicles 9 Seconds
 - The Queue is rolling
 - 20 Year Plus... Design Life





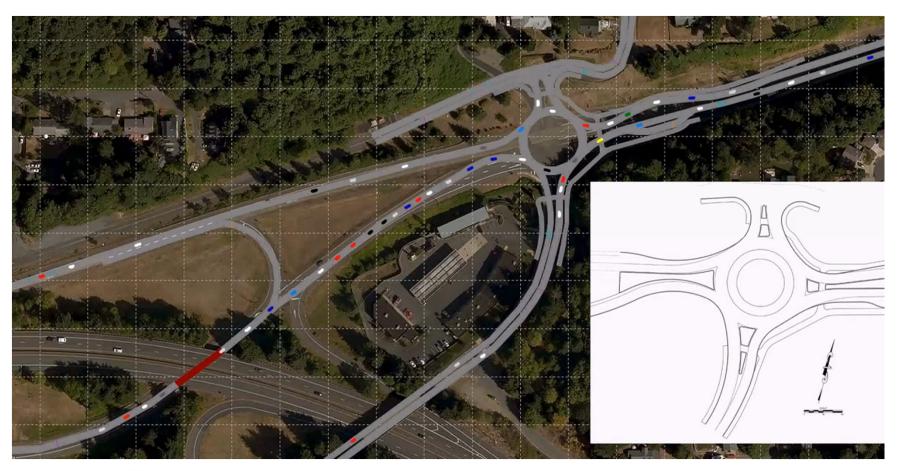
Traffic Analysis

- Single Lane vs. Multilane Roundabout
 - Why not extra lane now?
 - Single lane will operate efficiently beyond the 20 year design life.
 - Single lane is safer than a multi-lane.
 - Especially if there is excess capacity with multi-lane.
 - Increased cost of multi-lane.
 - Increased property impacts of multi-lane.
 - Single lane will be designed to accommodate additional east bound lane in the future





Visual Traffic Simulation Prepared by WSDOT



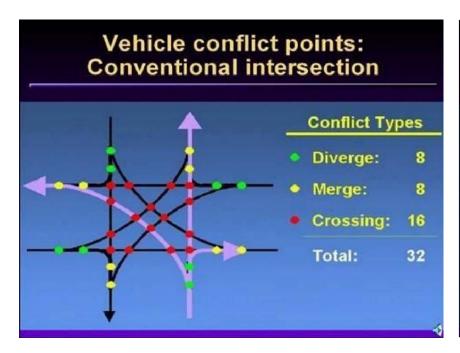


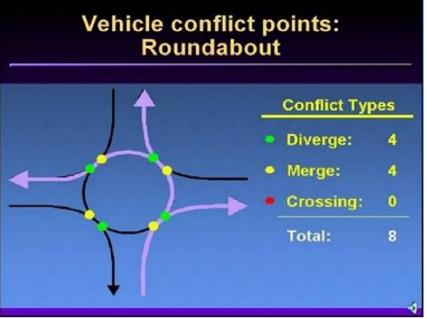


Safety

Signal

Roundabout



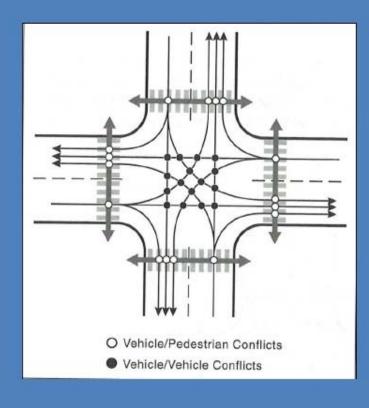


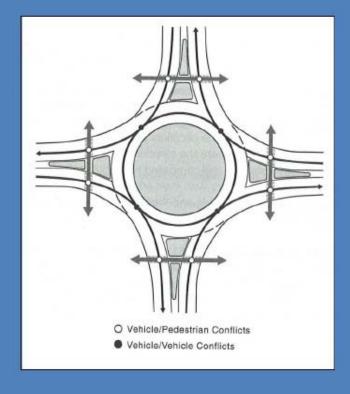




SAFETY

- Roundabouts reduce the number of vehicle to pedestrian conflicts
- 8 conflict points in Roundabout
 vs. 16 conflict points in a signalized intersection





Roundabouts vs. Signals

Safety

- A 37 percent reduction in overall collisions
- A 75 percent reduction in injury collisions
- A 90 percent reduction in fatality collisions
- A 40 percent reduction in pedestrian collisions

Safety

- Traffic Calming Effect
- Pedestrian safety:
 - Reduced Speeds
 - Focus on one traffic stream
 - Refuge Island
- No Light to Beat





Roundabouts vs. Signals

Operations

- Lower Overall Delay
- Improves Access
- Lower Operating Costs
- Lower Maintenance Costs
- Always Works (Power Outage)

Environmental Factors

- Less Noise
- Less Fuel Consumption
- Better Air Quality
- Less Pavement





Roundabouts vs. Signals

- Land Use and Aesthetics
- Provides Transition
- Gateway Opportunities
- Improved Access to Businesses and Neighborhoods





