Lake Road and NE Everett Street Intersection Improvements Draft Alternative Analysis Report

Camas, Washington

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1 PROJECT BACKGROUND

Project Description

The intersection of NE Everett Street (SR-500) and NE Lake Road is currently a signalized tee intersection. The surrounding area includes Lacamas Lake, forested lands owned by the City of Camas (City) and Clark County, and private property. To the north along SR-500 is a bridge over a body of water connecting Lacamas Lake and Round Lake. This intersection connects two arterial roads that are critical links between the south shore, north shore, and downtown areas of Camas. Average daily traffic through the intersection is well over 15,000. The current signalized intersection is congested, with reported backups exceeding 1/2 mile.

The project study limits extend from just south of the Fallen Leaf Lake Park driveway (located to the south of the intersection of Lake Road and Everett Street) to the Everett Street Bridge (WSDOT Bridge #500/016) to the north, and from the sidewalk terminus at the Lacamas Lake Lodge, to the intersection of Lake Road and Everett Street intersection. The project area also includes the City-owned property, east of the intersection, in its entirety.

This Alternative Analysis Report evaluates the benefits, challenges, and impacts associated with signalized and roundabout intersection improvements. Once the evaluation is completed and an alternative is selected, the design team will move forward with design. Potential design modifications will be evaluated in the design process, which may further reduce the project impacts.

Project Purpose and Need

The existing intersection of Lake Road and Everett Street is at or near failure and experiences substantial delay on all legs. The existing roadway is generally 40 feet wide with a bike lane in the northbound direction on Everett Street. There are some intermittent segments of sidewalk, primarily at the existing signal, but the majority of the project area does not have sidewalk.

The goal of this project is to reduce intersection congestion, improve pedestrian and motorist safety, and increase multimodal connectivity within the general vicinity of the project. The intersection improvements will be limited to the required length needed to safely taper and transition to and from the existing roadway to the intersection improvements. The pedestrian access route may be extended beyond the intersection improvements in order to provide an ADA-accessible route between the Round Lake Park driveway (north), Fallen Leaf Lake Park driveway (south), and Lacamas Lake Lodge (west).



2 ALTERNATIVE ANALYSIS GOALS

The project design team has worked with City staff, the Project Advisory Committee, City Council, and the public to establish the following goals for the alternative analysis:

- <u>2020 Construction.</u> This intersection is already a bottleneck and subject to substantial congestion. A
 solution that allows for a more immediate solution (1 to 2 years) would be preferred over an option
 that takes longer to implement.
- <u>Relieve Congestion.</u> Traffic congestion and level of service (LOS) are the driving factors that have
 made this a priority project. All alternatives that require construction will provide an appropriate LOS
 for the modeled 2040 traffic volumes.
- <u>Pedestrian Safety and Accessibility.</u> This intersection is located between multiple parking and
 recreation facilities, and has the only marked roadway crossings between Round Lake, Fallen Leaf
 Lake, the Lacamas Lake Lodge, and several trail heads. A higher level of consideration for pedestrian
 accessibility will be required on this project.
- Minimize Environmental Impacts. This project lies between three lakes and nearly 500 trees within the projects study limits. Complete avoidance of any environmental impact is not possible with any new intersection improvement options. The goal will be to best balance the impacts in order to satisfy the project needs with the least harmful impacts to the environment.
- <u>Community Engagement.</u> City staff and City Council have stated from the beginning of the project that a robust community outreach program will be essential to the project's success. Due to the high profile location of the project, the community needs to be informed about and throughout the design process. The intent is to empower and educate the public while allowing the community to contribute to the alternative analysis process for this project. This was accomplished through stakeholder interviews; signage near the intersection; social media posts; a dedicated project webpage; the establishment of a Project Advisory Committee; an online survey; multiple public open houses publicized through advertisements in local media, by an all-Camas resident mailer, on social media, and in website articles.



3 ALTERNATIVES

Seven alternatives have been analyzed in order to determine the best solution for this intersection. These alternatives include the following (see Appendix A for layout of each alternative):

- No-Build Option (NB). This alternative involves doing nothing. This option can be selected if the
 impacts of doing nothing is determined to best satisfy the alternative analysis criteria over all other
 project options.
- <u>Signal Alternative 1 (S1)</u>. This alternative places the new signalized intersection at the same location as the existing signalized intersection. The western edge of pavement matches the existing edge of pavement along Lacamas Lake. Lane configurations and storage lengths are based on the traffic report (see Appendix C). This alternative impacts the existing bridge (to the north of the intersection along Everett), the County's Round Lake Park parking lot, private properties, and the City-owned property east of the existing intersection.
- <u>Signal Alternative 2 (S2).</u> This alternative places the new signalized intersection south and east of the existing signalized intersection in order to avoid bridge impacts. Lane configurations and storage lengths are based on the traffic report (see Appendix C). This alternative impacts the County Park's parking lot, private properties, and the City-owned property east of the existing intersection.
- <u>Signal Alternative 3 (S3)</u>. This alternative places the new signalized intersection even farther south and east of the existing signalized intersection in order to avoid bridge impacts and the County Park's parking lot. Lane configurations and storage lengths are based on the traffic report (see Appendix C). This alternative impacts private properties (including relocation of business and residences), and the City-owned property east of the existing intersection.
- Roundabout Alternative 1 (RB1). This alternative places a roundabout to the south and east of the existing signalized intersection. The western edge of the circulatory roadway is located outside of the existing payment so that the majority of the intersection can be built outside of the existing travel lanes. Lane configurations and storage lengths are based on the traffic report (see Appendix C). This alternative impacts the City-owned property east of the existing intersection.
- Roundabout Alternative 2 (RB2). This alternative places a roundabout along Everett Street, just south of the existing signalized intersection in order to avoid impacts to the lake. Lane configurations and storage lengths are based on the traffic report (see Appendix C). This alternative impacts the Cityowned property east of the existing intersection and private property, and will have increased construction staging complexity.
- Roundabout Alternative 3 (RB3). This alternative places a roundabout at the same location as the
 existing signalized intersection. Lane configurations and storage lengths are based on the traffic
 report (see Appendix C). This alternative impacts the City-owned property east of the existing
 intersection, Lacamas Lake, and private property, and will have increased construction staging
 complexity.



4 ANALYSIS CRITERIA AND WEIGHT

The seven above-mentioned alternatives were evaluated based on 17 criteria. These evaluation criteria were the result of design team input, Project Advisory Committee feedback, stakeholder interview results, City Council input, and feedback from the community as a whole. Each alternative was evaluated based on the potential to either positively or negatively impact the criteria being evaluated. These criteria include the following:

- Public impacts and benefits
 - Project schedule
 - Public parking
 - o Accessibility to lake
 - Private property impacts
 - Aesthetics
- Traffic impacts and benefits
 - Short-term impacts (construction)
 - Long-term impacts (performance)
 - o Pedestrian and bicycle safety
 - Vehicular safety
 - Access management
- Environmental impacts and benefits
 - Tree impacts
 - Lake and wetland impacts
 - Habitat impacts
 - Water and air quality
- Infrastructure impacts and benefits
 - Bridge impacts
 - Construction costs
 - Utility impacts

Each alternative received a score from 1 to 10 for each criterion (see below for a breakdown on each criterion and an explanation on how each alternative was scored). Due to the nature of these criteria, some of them are more important to the community than others. In order to account for the variance in value of each criterion, the community survey (posted online from February 22 to March 11, with 1,108 responses) was used to establish a priority multiplier. The multiplier is the sum of the percentages of people who checked a 1 or 2 on question number 6 of the community survey. This question asked the public to rate the importance of several criteria, 1 being the highest importance and 5 being the lowest importance. It was the City and design team's opinion that this would best capture the overall priorities of the community. Results from the community survey are provided in Appendix D.



Public Impacts and Benefits - Project Schedule

Criteria Description

Project schedule will be set by the project's permitting requirements and estimated length of construction time. In general:

- Major impact to the County Park property (RCO funded property) could take up to 5 years to get through permitting.
- Property acquisition and business or personal relocations could take up to 2 years.
- Permitting wetland and lake impacts could take up to 2 years.
- If the existing bridge were to be impacted, it would need to be reconstructed. Bridge reconstruction would likely take 2 years.
- Construction without reconstructing the bridge could take 1 year to build the project.

Note: Construction funding has not yet been acquired. The time it would take to procure the funding for these projects has been excluded from the schedule criteria analysis.

- A score of 1 will be applied to the project with the longest schedule.
- A score of 10 will be applied to the shortest schedule.
- Other alternatives will be scored proportionally.

Scoring							
Alt#	Score	Justification					
NB	1	This alternative has an indefinite schedule as it will never resolve the issues with the intersection.					
S1	3	This alternative will have a major impact to the County park and will impact the bridge. Permitting and construction for this alternative would likely take 7 years.					
S2	5	This alternative will have a major impact to the County park. Permitting and construction for this alternative would likely take 6 years.					
S 3	8	This alternative will have major property and business impacts. Permitting and construction for this alternative would likely take 3 years.					
RB1	10	This alternative does not require any right-of-way or federal permits and does not impact the County park property. Permitting and construction for this alternative would likely take 1.5 years.					
RB2	8	This alternative will have minor private property and County park impacts. Permitting and construction for this alternative would likely take 3 years.					
RB3	5	This alternative will have a major impact to the County park property (RCO funded). Permitting and construction for this alternative would likely take 6 years.					





Public Impacts and Benefits – Public Parking

Criteria Description

Currently there is a very limited amount of legal parking spaces available to serve the park network in the vicinity of this intersection. Several people currently illegally park along the shoulder of the road. However, this will be eliminated with all construction options, as there will be a bike lane between the traveled lane and the curb line. All extra shoulder width will be eliminated.

The County park (where the current parking lot is located) is funded in part with RCO funds, which means that any physical impact to the parking lot will require replacement.

Required access management (removal of left turns) will not have a direct construction impact to the parking lot. However, it will not be feasible to have full access to the parking lot with some of the alternatives. This impact would not require mitigation with RCO.

- Alternatives that require the reconstruction and or relocation of the parking lot will receive a score of 1.
- Alternatives that do not require reconstruction or relocation of the parking lot but will likely require right-in/right-out movements will receive a score of 5.
- Alternatives that do not require reconstruction or relocation of the parking lot and are not likely to require right-in/right-out movements will receive a score of 10.

	Scoring						
Alt#	Score	Justification					
NB	10	The no-build alternative will not have any impacts.					
S1	1	This alternative will require the parking lot to be reconstructed.					
S2	1	This alternative will require the parking lot to be reconstructed.					
S3	10	This alternative will not impact the parking lot.					
RB1	10	This alternative will not impact the parking lot.					
RB2	5	This alternative will likely require the access to be converted to right-in/right-out access.					
RB3	10	This alternative will not impact the parking lot.					





V

Public Impacts and Benefits – Accessibility to Lake

Criteria Description

The current intersection does not have a clearly defined accessible route from the available overflow parking from the Lacamas Lake Lodge located west of the intersection.

All alternatives (except for the no-build alternative) will provide a clearly defined accessible route from the Lacamas Lake Lodge to the main park amenities. All alternatives have the potential to provide sidewalk connection to the Fallen Leaf Lake driveway. This additional connection is funding dependent.

All alternatives that shift the intersection away from the park, which would cause out of direction travel, are anticipated to have an enhanced mid-block crossing installed to eliminate out of direction travel.

Criteria Scoring

- Alternatives that do not improve accessibility to the park will receive a score of 1.
- Alternatives that provide an accessible route from the extra parking at the Lacamas Lake Lodge to the main Round Lake amenities will receive a score of 10.

	Scoring					
Alt#	Score	Justification				
NB	1	The no-build alternative will not have any impacts.				
S1	10	This alternative will provide an accessible route from overflow parking to the Round Lake Park amenities.				
S 2	10	This alternative will provide an accessible route from overflow parking to the Round Lake Park amenities.				
S 3	10	This alternative will provide an accessible route from overflow parking to the Roun Lake Park amenities.				
RB1	10	This alternative will provide an accessible route from overflow parking to the Round Lake Park amenities.				
RB2	10	This alternative will provide an accessible route from overflow parking to the Round Lake Park amenities.				
RB3	10	This alternative will provide an accessible route from overflow parking to the Round Lake Park amenities.				





Public Impacts and Benefits – Private Property Impacts

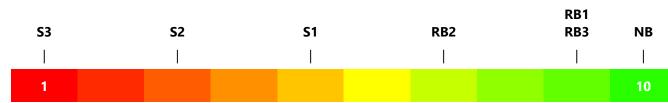
Criteria Description

Several alternatives would require right-of-way acquisition from adjacent private properties. The amount of acquisition varies from minor impacts to relatively unused portions of a private property to residential and commercial relocations.

Criteria Scoring

- Alternatives that would require relocation of residences will receive a score of 1.
- Alternatives that would remove commercial parking will receive a score of 3.
- Alternatives that would require right-of-way acquisition from multiple properties but would not substantially impact use will receive a score of 5.
- Alternatives that would require right-of-way acquisition from a single private property will receive a score of 7.
- Alternatives that do not impact private property will receive a score of 10.

	Scoring					
Alt#	Score	Justification				
NB	10	The no-build alternative will not have any impacts.				
S1	5	This alternative would likely require right- of-way acquisition from three parcels but is not anticipated to have substantial impacts to property use.				
S2	3	This alternative would likely require right- of-way acquisition from four parcels and is anticipated to have substantial impacts to property use.				
S3	1	This alternative will require multiple residences and businesses to be relocated.				
RB1	9	This alternative is not likely to have any private property right-of-way acquisition but may require temporary construction easements on one property.				
RB2	7	This alternative would likely require right- of-way acquisition from one parcel but is not anticipated to have substantial impacts to property use.				
RB3	9	This alternative is not likely to have any private property right-of-way acquisition but may require temporary construction easements on one property.				





Public Impacts and Benefits – Aesthetics

Criteria Description

City Council has expressed concerns pertaining to project aesthetics, stating that a substantial investment has been made in the area to enhance the aesthetics. This intersection is located along a Gateway Corridor which has been given precedence on aesthetics.

The existing intersection has utilitarian visual appeal and does not meet the aesthetic standards for a Gateway Corridor.

The potential to create an aesthetically appealing intersection is based on the available locations for enhanced landscaping and art features. Roundabouts generally have more potential for aesthetic enhancements as the central island has great "centerpiece" potential, and there is typically more adjacent landscaping that can be viewed from multiple angles.

- Leaving the intersection as is will receive a score of 1
- The remaining options have been assigned scores ranging from 5 to 10, based on the aesthetic potential. This potential is based on availability of landscape areas.

	Scoring						
Alt#	Alt # Score Justification						
NB	1	No aesthetic improvements.					
S1	5	Signalized intersection, with little area for landscaping.					
S2	6	Signalized intersection, with moderate area for landscaping.					
S3	7	Signalized intersection, with moderate area for landscaping.					
RB1	10	Roundabout intersection, with substantial area for landscaping.					
RB2	8	Roundabout intersection, with moderate area for landscaping.					
RB3	8	Roundabout intersection, with moderate area for landscaping .					





<u>Traffic Impacts and Benefits – Short-Term Traffic Impacts (Construction)</u>

Criteria Description

All construction-based alternatives will have an impact on the traveling public during construction. Impact may be the result of the following:

- Reduced speeds
- Single lane closures
- Temporary signals
- Flagging
- Traffic realignments
- Extended delays

The extent of these impacts will be based on available room for construction, construction activities, and number of stages of construction. In general, any improvement that is needed to be constructed over the existing roadway will result in more traffic delay.

- Alternatives requiring the existing bridge to be reconstructed are anticipated to span multiple years of construction and will result in a score of 1.
- Alternatives that can be built without any impact on the traveling public will result in a score of 10.
- Other alternatives that result in multiple stages of construction will be given a proportional score based on anticipated impact.

Scoring						
Alt#	Score	Justification				
NB	10	The no-build alternative will not have any impacts.				
S1	1	This alternative will require a bridge replacement and additional staging impacts.				
S2	5	This alternative is anticipated to be generally constructed off line but will likely require a temporary signal.				
S3	7	This alternative is anticipated to be almost completely constructed off line but will likely require a temporary signal.				
RB1	9	This alternative is anticipated to be almost completely constructed off line.				
RB2	2	This alternative is anticipated to have substantial delay as several stages of construction will be needed to build the project.				
RB3	2	This alternative is anticipated to have substantial delay as several stages of construction will be needed to build the project.				





<u>Traffic Impacts and Benefits - Long-Term Traffic Impacts (Performance)</u>

Criteria Description

The year 2040 projects the anticipated long-term traffic growth and potential transportation impacts in the City of Camas.

The alternative intersection performance impacts and benefits can be measured by the following:

- Delay of the intersection when analyzed with the projected 2040 traffic volumes.
- Allowance of vehicle storage and queue lengths based on intersection geometry.

Criteria Scoring

- A score of 1 will be applied to the project with the longest delay for the projected 2040 volume.
- A score of 10 will be applied to the project with the shortest delay for the projected 2040 volumes.
- For intersections with the same delay, an evaluation of the roadway geometry was conducted on whether the alternative would provide adequate vehicle storage capacity and will be scored proportionally.
- Other alternatives will be scored proportionally.

Scoring					
Alt#	Score	Justification			
NB	1	Intersection failure (delay greater than 80 seconds).			
S1	4	Delay of 34 seconds. Intersection geometry may limit vehicle queue storage.			
S2	5	Delay of 34 seconds. This signal alternative would provide adequate queue storage for optimal performance of the signal.			
S3	6	Delay of 34 seconds. This signal alternative would provide greatest queue storage for signal alternatives.			
RB1	10	Delay of 17 seconds. This roundabout alternative would provide adequate queue storage.			
RB2	8	Delay of 17 seconds. This roundabout alternative would provide adequate queue length storage. Geometry may limit southbound vehicle queue storage.			
RB3	9	Delay of 17 seconds. This roundabout alternative would provide adequate queue storage. Geometry may limit southbound vehicle queue storage.			

RATING SCALE NB S1 S2 S3 RB2 RB3 RB1 | | | | | | | | 10



Traffic Impacts and Benefits – Pedestrian and Bicycle Safety

Criteria Description

Increase in pedestrian and bicyclist use is anticipated with improvements of the intersection by the year 2040, especially during peak seasons. Improvements to the intersection are anticipated to improve the existing pedestrian and bicycle facilities near the intersection.

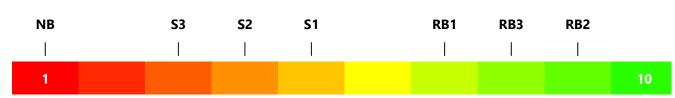
The impacts and benefits of pedestrian and bicycle safety can be measured as follows:

- Crossing distance for pedestrians when navigating the intersection.
- Adequate sight distance of pedestrians and bicyclists for motorists.
- Bicycle facility safety and connections in the vicinity of the intersection.

Criteria Scoring

- A score of 1 will be applied to the project that does not provided adequate pedestrian and bicycle facilities.
- A score of 10 will be applied to the project that provides adequate pedestrian and bicycle facilities, as well as the shortest crossing distance for pedestrians and longest sight distance of pedestrians and bicyclists for motorists.
- Other alternatives will be scored proportionally.

Scoring					
Alt#	Score	Justification			
NB	1	This alternative has no pedestrian facilities and minor bicycle facilities.			
S1	5	This alternative provides larger crossing distances for pedestrians due to road widening.			
S2	4	This alternative provides larger crossing distances for pedestrians due to road widening. The pedestrian crossings at the intersection are farther away from crossing locations preferred by community members.			
S3	3	This alternative provides larger crossing distances for pedestrians due to road widening. The pedestrian crossings at the intersection are the farthest for signal alternatives away from crossing locations preferred by community members.			
RB1	7	This alternative provides shorter crossing distances for pedestrians than a traditional signal. The pedestrian crossings at the intersection is farther away from crossing locations preferred by community members. This alternative relies on vehicles yielding for pedestrian/bicycle crossings.			
RB2	9	This alternative provides shorter crossing distances for pedestrians than a traditional signal while also providing the longest sight distance of pedestrians. This alternative relies on vehicle yielding for pedestrian/bicycle crossings.			
RB3	8	This alternative provides shorter crossing distances for pedestrians than a traditional signal. This alternative relies on vehicle yielding for pedestrian/bicycle crossings.			





Traffic Impacts and Benefits – Vehicular Safety

Criteria Description

With the anticipated traffic growth by 2040, the number of vehicles entering the intersection will increase, thus resulting in a higher probability of vehicles crashes.

Vehicle safety impacts and benefits can be measured by the following:

- Highest/lowest probability of fatal crashes at the intersection.
- Highest/lowest probability of overall crashes at the intersection.
- Vehicle speeds entering and exiting the intersection.
- Vehicle merging length when exiting the intersection.

Criteria Scoring

- A score of 1 will be applied to the project with the highest probability of fatal and overall crashes along with promoting higher vehicle speeds through the intersection.
- A score of 10 will be applied to the project with the lowest probability of fatal and overall crashes along with promoting lower vehicle speeds through the intersection.
- Other alternatives will be scored proportionally.

	Scoring					
Alt#	Score	Justification				
NB	2	This alternative maintains a higher probability of fatal and overall crashes at the intersection. Due to anticipated congestion, rear-end crashes are a higher probability.				
S1	1	This signal alternative has a higher probability of fatal crashes and overall crashes at the intersection compared to roundabouts. This roadway alignment promotes higher speeds.				
S2	3	This signal alternative has a higher probability of fatal crashes and overall crashes at the intersection compared to roundabouts.				
S 3	4	This signal alternative has a higher probability of fatal crashes and overall crashes at the intersection compared to roundabouts.				
RB1	10	This roundabout alternative has a lower probability of fatal crashes and overall crashes at the intersection compared to signals. Roundabout location and approach alignments promote slower speeds.				
RB2	8	This roundabout alternative has a lower probability of fatal crashes and overall crashes at the intersection compared to signals. Approach alignments promote slower speeds.				
RB3	7	This roundabout alternative has a lower probability of fatal crashes and overall crashes at the intersection compared to signals. Approach alignments promote slower speeds.				





Traffic Impacts and Benefits – Access Management

Criteria Description

With the anticipated traffic growth by 2040, impacts and benefits should be evaluated for existing access to the local side streets, businesses at the intersection, and surrounding park facilities.

Access management impacts and benefits can be measured by:

- Intersection queues impacting (blocking) access to local side streets, businesses at the intersection, and surrounding park facilities.
- Closures of access to local side streets, businesses at the intersection, and surrounding park facilities.
- Opportunities for connections to local side streets, businesses at the intersection, and surrounding park facilities.

- A score of 1 will be applied to the project that would produce the longest queues that would impact access to local side streets, businesses, and park facilities, while not providing opportunities for future connections.
- A score of 10 will be applied to the project that would produce the shortest queues that would not impact access to local side streets, businesses, and park facilities, while providing opportunities for future connections.
- Other alternatives will be scored proportionally.

Scoring							
Alt#	Score	Justification					
NB	1	This alternative has the longest queues and would continue to impact access in the vicinity of the intersection.					
S1	5	This alternative has longer queues while slightly impacting access to the Round Lake parking lot and Camas Produce.					
S2	4	This alternative has longer queues while impacting access to Camas Produce by shifting the intersection south.					
S3	3	This alternative has longer queues; however, the south leg impacts business significantly (Camas Produce), as well as their access.					
RB1	10	This alternative has shorter queues and does not close or impact access surrounding the intersection.					
RB2	7	This alternative has shorter queues; however, placement may impact access at the Round Lake parking lot.					
RB3	6	This alternative has shorter queues; however, placement may impact access at the Round Lake parking lot.					





Environmental Impacts and Benefits – Tree Impacts

Criteria Description

The intersection of Lake Road and Everett Street is located in the immediate proximity of several hundred trees (initial project studies identified nearly 500 trees). Each constructed alternative will impact some number of trees.

Although the community values all of the trees, the 42-inch American chestnut tree located just east of the existing intersection is native to the East Coast and was almost wiped out during a tree blight in the 19th century. At that time, people started planting seedlings of the American chestnut throughout the country. There are several groups dedicated to preserving this tree, such as The American Chestnut Foundation. The tree has a high cultural value.

Due to the nationwide value of the American chestnut tree, alternatives are being scored on both the number of anticipated trees that need to be removed as well as on the potential to save the American Chestnut tree.

Criteria Scoring

The anticipated tree impacts for each alternative have been quantified (see table below). The City classifies trees greater than 36-inch diameter at breast height (DBH) as significant trees. Therefore, a greater weight has been assigned to trees classified as significant. Based on the assigned impact/tree values, each alternative received a tree impact score. The alternatives were rated as follows:

- Alternative with the lowest score received a score of 10.
- Alternative with the highest score received a score of 1.
- Other alternatives were scored proportionally.

	Impact /							
Tree Rating	Tree	NB	S1	S2	S3	RB1	RB2	RB3
GOOD (>36-in DBH)	6	0	3	2	3	3	2	2
GOOD (<36-in DBH)	4	0	11	15	10	13	14	12
FAIR (>36-in DBH)	3	0	3	7	8	10	1	1
FAIR (<36-in DBH)	2	0	26	28	24	27	24	21
POOR (>36-in DBH)	2	0	1	1	1	2	0	1
POOR (<36-in DBH)	1	0	50	81	70	59	32	43
HAZARD	0	0	16	30	44	27	12	15
American Chestnut	8	0	1	1	1	0	1	1
Total Trees Impacted		0	111	165	161	141	86	96
Tree Impact score		0	183	240	210	217	159	158





Environmental Impacts and Benefits – Lake and Wetland Impacts

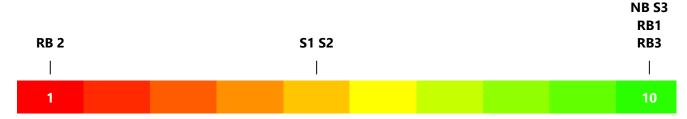
Criteria Description

There are two wetlands (Wetlands A and B) located adjacent to the study area on either side of NE Everett Street. Lacamas Lake is located to the northwest of the study area, and Round Lake is located to the east-northeast. Lake and wetland impacts vary for each alternative and assessment.

Criteria Scoring

- A score of 1 will be applied to alternatives with the greatest lake and wetland impacts and include a US Army Corps of Engineer (USACE) Individual Wetland Permit or Nationwide Permit.
- A score of 5 will be applied to projects with some lake and wetlands impacts and may require a US Army Corps of Engineer Nationwide Wetland Permit.
- A score of 10 will be applied to projects that will have no impacts to lakes and wetlands.

		Scoring
Alt#	Score	Justification
NB	10	This alternative does not require construction and has no impact on the lakes or wetlands.
S1	5	For areas outside of the bridge, this alternative will have no direct impacts to the wetlands and the lake located adjacent to the study area. Bridge impacts are unknown, but could trigger USACE permitting.
S2	5	This alternative may have some temporary impacts to the lake located adjacent to the study area, but no direct impacts to wetlands.
S 3	10	This alternative does not appear to have direct impacts to the lake or wetlands located adjacent to the study area.
RB1	10	This alternative does not appear to have direct impacts to the wetlands or the lake located adjacent to the study area.
RB2	1	This alternative will directly impact approximately 0.15 acre of the southeast shoreline of Lacamas Lake between the northern and western leg of the roundabout, and will have no direct wetland impacts.
RB3	10	This alternative does not appear to have direct impacts to the lake or wetlands located adjacent to the study area.





Environmental Impacts and Benefits - Habitat Impacts

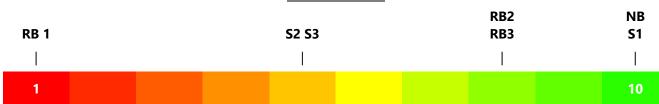
Criteria Description

Habitat impacts vary for each alternative and assessment of impacts is related to percentage of canopy tree removal.

Criteria Scoring

- A score of 1 will be applied to alternatives with a tree canopy reduction of more than 30 percent.
- A score of 5 will be applied to alternatives with a tree canopy reduction of between 15 and 30 percent.
- A score of 8 will be applied to alternatives with a tree canopy reduction of less than 15 percent.
- A score of 10 will be applied to alternatives with a tree canopy reduction of less than 10 percent.

	Scoring								
Alt#	Score	Justification							
NB	10	This alternative does not require construction and has no impact to habitat areas.							
S1	10	This alternative will have less than 10 percent tree canopy reduction in habitat area. The American chestnut tree would be impacted.							
S2	5	This alternative will have between 15 and 30 percent tree canopy reduction in habitat area. The American chestnut tree would be impacted.							
S 3	5	This alternative will have between 15 and 30 percent tree canopy reduction in habitat area. The American chestnut tree would be impacted.							
RB1	1	This alternative will have more than 30 percent tree canopy reduction in habitat area. May be possible to retain the American chestnut tree.							
RB2	8	This alternative will have less than 15 percent tree canopy reduction in habitat area. The American chestnut tree would be impacted.							
RB3	8	This alternative will have less than 15 percent tree canopy reduction in habitat area. The American chestnut tree would be impacted.							





Environmental Impacts and Benefits – Water and Air Quality

Criteria Description

In this case, water and air quality are a direct result of pollutants discharged from vehicles idling at an intersection.

As vehicles brake, metal fragments are emitted from the vehicle and are transported through stormwater runoff to adjacent waterbodies. Washington State Department of Ecology has required treatment regulations to capture and treat these pollutants.

Vehicles also emit carbon monoxide while their engines are running. The longer a vehicle is spent idling, the more pollutants are discharged into the environment.

Roundabouts tend to have shorter storage lengths (compared to signalized intersections) as a result of how they directly correlate to the pollution potential of roundabouts.

- The no-build alternative will result in the highest long-term pollution potential and will receive a score of 1.
- Signalized intersections will provide appropriate water quality but will have greater vehicular delay and will receive a score of 5.
- Roundabout intersections will provide appropriate water quality and have shorter vehicle delay, and will receive a score of 10.

	Scoring							
Alt#	Score	Justification						
NB	1	This alternative does not treat all project stormwater runoff to current Ecology standards and is subject to longer vehicular idling times.						
S1	5	This alternative will treat stormwater runoff to current Ecology standards but is subject to longer vehicular idling times.						
S2	5	This alternative will treat stormwater runoff to current Ecology standards but is subject to longer vehicular idling times.						
S3	5	This alternative will treat stormwater runoff to current Ecology standards but is subject to longer vehicular idling times.						
RB1	10	This alternative will treat stormwater to current Ecology standards and will result in shorter vehicular idling times.						
RB2	10	This alternative will treat stormwater to current Ecology standards and will result in shorter vehicular idling times.						
RB3	10	This alternative will treat stormwater to current Ecology standards and will result in shorter vehicular idling time.						





<u>Infrastructure Impacts and Benefits – Bridge Impacts</u>

Criteria Description

The bridge north of the intersection of Lake Road and Everett Street is structurally sound but functionally obsolete. Currently there are no plans to replace this bridge by WSDOT and the Regional Traffic Council. If it were to be impacted by any project, it would need to be replaced with a new bridge.

This bridge does not have the required freeboard from the 100-year floodplain and is too narrow to accommodate the roadway standard section. If this bridge were to be replaced, it would need to be raised 7 to 8 feet in elevation and would require substantial roadway reconstruction (roughly 600 feet south of the bridge and 400 feet north of the bridge).

The bridge replacement is anticipated to cost \$8.4M.

Criteria Scoring

- Alternatives that are anticipated to require a minimal amount of reconstruction when the bridge is reconstructed will be given a score of 10.
- Alternatives that are anticipated to require a substantial amount of reconstruction when the bridge is reconstructed will be given a score of 5.
- Alternatives that impact the bridge will receive a score of 1.

	Scoring						
Alt#	Score	Justification					
NB	10	Does not impact the bridge.					
S1	1	Impacts the bridge.					
S2	5	A larger portion of this alternative will need to be reconstructed when the bridge is replaced in the future.					
S3	10	Does not impact the bridge.					
RB1	10	Does not impact the bridge.					
RB2	5	A larger portion of this alternative will need to be reconstructed when the bridge is replaced in the future.					
RB3	10	Does not impact the bridge.					





Infrastructure Impacts and Benefits – Construction Costs

Criteria Description

The six construction-based alternatives have been conceptually costed out for the purposes of a cost comparison (see below and Appendix B).

Upon selection of a preferred alternative, the preferred alternative and its project additives will be refined to provide a more detailed construction cost estimate.

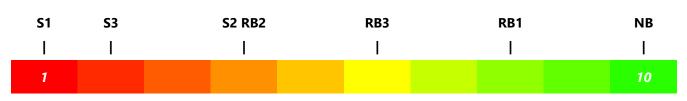
Criteria Scoring

- Lowest cost will receive a score of 10.
- Highest cost will receive a score of 1.
- Other alternatives will be scored proportionally.

	Scoring						
Alt#	Score	Justification					
NB	10	\$0					
S1	1	\$19.9M					
S2	4	\$9.8M					
S 3	2	\$11.5M					
RB1	8	\$6.8M					
RB2	4	\$10.0M					
RB3	6	\$8.8M					

Item	S1	S2	S3	RB1	RB2	RB3
Roadway						
Improvements*	\$6,430,000	\$6,430,000	\$6,430,000	\$5,850,000	\$5,850,000	\$5,850,000
Bridge Replacement*	\$9,740,000	\$0	\$0	\$0	\$0	\$0
Round Lake Parking						
Impacts*	\$660,000	\$0	\$0	\$0	\$0	\$0
Private Property						
Impact	\$330,000	\$681,000	\$3,240,000	\$26,000	\$34,000	\$104,000
City Property Impact	\$225,000	\$475,000	\$625,000	\$505,000	\$150,000	\$140,000
Utility Adjustment &						
Relocation*	\$1,170,000	\$1,220,000	\$270,000	\$270,000	\$1,090,000	\$1,120,000
Construction						
Staging/Traffic Control	\$1,330,000	\$900,000	\$900,000	\$180,000	\$1,160,000	\$1,160,000
Walls	\$0	\$0	\$0	\$0	\$1,630,000	\$380,000
Wetland Impacts		•	•			_
(Direct)	\$0	\$43,000	\$0	\$0	\$110,000	\$0
Total Cost	\$19,890,000	\$9,750,000	\$11,470,000	\$6,830,000	\$10,020,000	\$8,750,000

Cost Add Alternatives	Additive Costs	
Project Aesthetics	\$500,000 - \$1,000,000	
Pedestrian Overpass	\$2,750,000	
Additional Parking	\$660.000	





Infrastructure Impacts and Benefits – Utility Impacts

Criteria Description

Aerial utilities are located along both the east and west sides of Everett Street and along the northern side of Lake Road. Some of the aerial utilities appear to be in an existing easement. If this is the case, the City may be responsible for compensating for portions of the relocations. (Potential city cost obligations have been incorporated into the cost estimate.)

Some alternatives require the existing aerial utilities to be moved out of alignment. This type of relocation tends to be substantially more complicated and expensive than relocating poles in line with the existing aerial facilities.

- Alternatives that are likely to require aerial utilities to be rerouted around the project will receive a score of 1.
- Alternatives that do not require aerial utilities to be relocated will receive a score of 10.
- All other alternatives will be scored based on their proportional impacts.

	Scoring								
Alt#	Score	Justification							
NB	10	This alternative does not require relocations.							
S1	1	This alternative will require substantial rerouting of aerial utilities.							
S2	4	This alternative will require some rerouting of aerial facilities.							
S3	6	Poles should be able to be relocated in line with the existing aerial facilities.							
RB1	7	Poles should be able to be relocated in line with the existing aerial facilities.							
RB2	4	This alternative will require some rerouting of aerial facilities.							
RB3	This alternative will require some rerouting of aerial facilities.								





5 RESULTS

The following table summarizes the results from section 4, Analysis Criteria and Weight:

Public Impacts and Benefits	Priority	NB	S1	S2	S3	RB1	RB2	RB3
Project Schedule	64	1	3	5	8	10	8	5
Public Parking	58	10	1	1	10	10	5	10
Accessibility to Lake	58	1	10	10	10	10	10	10
Private Property Impacts	34	10	5	3	1	9	7	9
Aesthetics	49	1	5	6	7	10	8	8
Subtotal		1,091	1,245	1,354	2,049	2,596	2,012	2,178

Traffic Impacts and benefits	Priority	NB	S1	S2	S3	RB1	RB2	RB3
Short Term Traffic Impacts (Construction)	70	10	1	5	7	9	2	2
Long Term Traffic Impacts (Performance)	72	1	4	5	6	10	8	9
Pedestrian and Bicycle Safety	65	1	5	4	3	7	9	8
Vehicular Safety	65	2	1	3	4	10	8	7
Access Management	33	1	5	4	3	10	7	6
Subtotal		1,000	913	1,297	1,476	2,785	2,052	1,961

Environmental Impacts and benefits	Priority	NB	S1	S2	S3	RB1	RB2	RB3
Tree impacts	46	10	5	1	3	2	7	7
Lake and wetland impacts	44	10	5	5	10	10	1	10
Habitat Impacts	44	10	10	5	5	1	8	8
Water and Air Quality	44	1	5	5	5	10	10	10
Subtotal		1,384	1,110	706	1,018	1,016	1,066	1,554

Infrastructure Impacts and Benefits	Priority	NB	S1	S2	S3	RB1	RB2	RB3
Impacts to bridge	31	10	1	5	10	10	5	10
Construction Costs	40	10	1	4	2	8	4	6
Utility Impacts	40	10	1	4	6	7	4	4
Subtotal		1,110	111	475	630	910	515	710

Summary	NB	S1	S2	S3	RB1	RB2	RB3
Total Score (No Priority)	99	68	75	100	143	111	129
Total Score (Web Survey Priority)	4,585	3,379	3,832	5,173	7,307	5,697	6,403

Priority is based on the percentage of people who selected #1 and #2 on question 6 of the online survey.

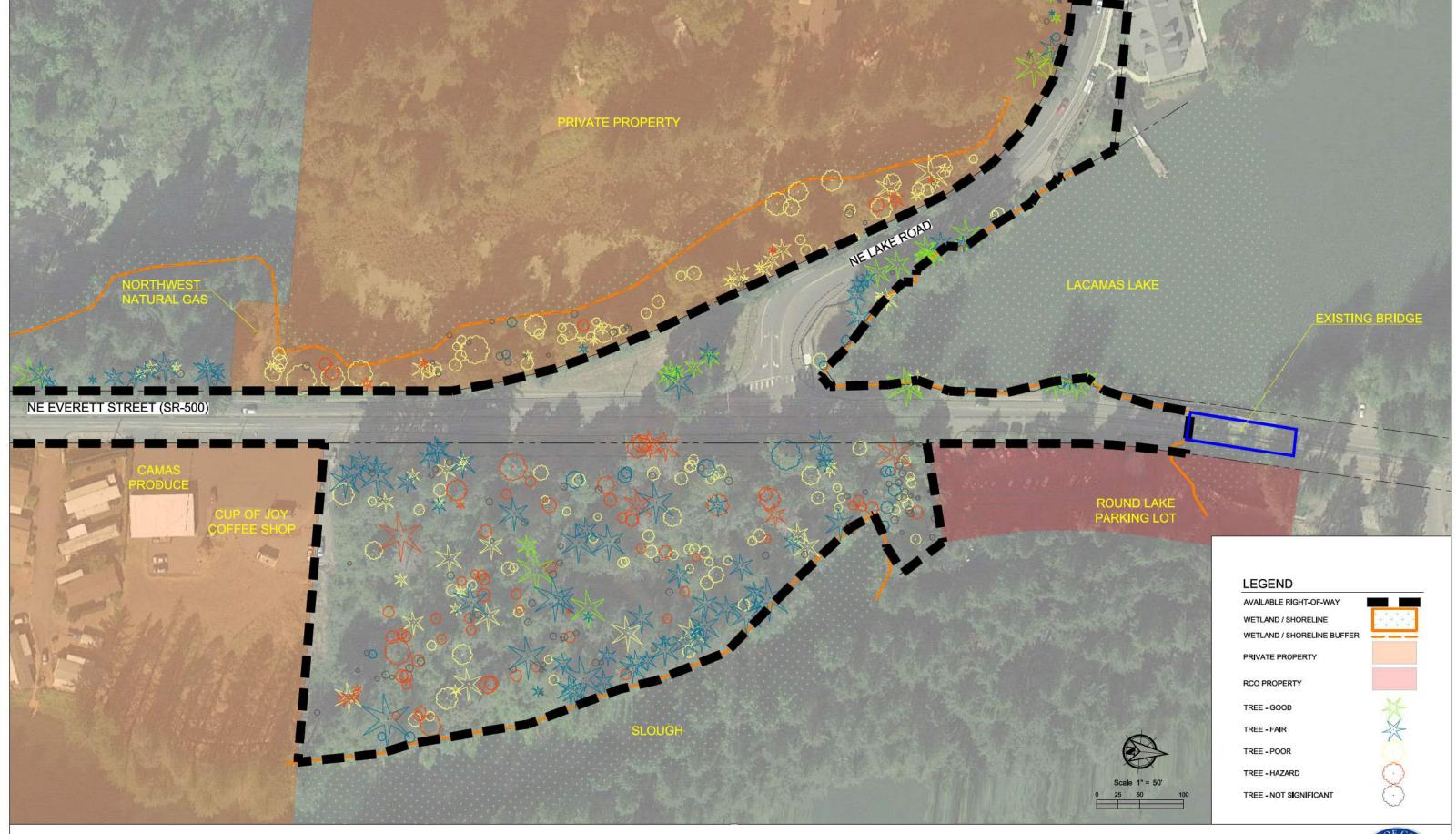


6 FINAL ALTERNATIVE

- Recommendations per Public outreach
- PAC member agreement
- Council agreement
- Preferred alternative
- **Anticipated Costs**
- Anticipated Costs
 Anticipated Challenges



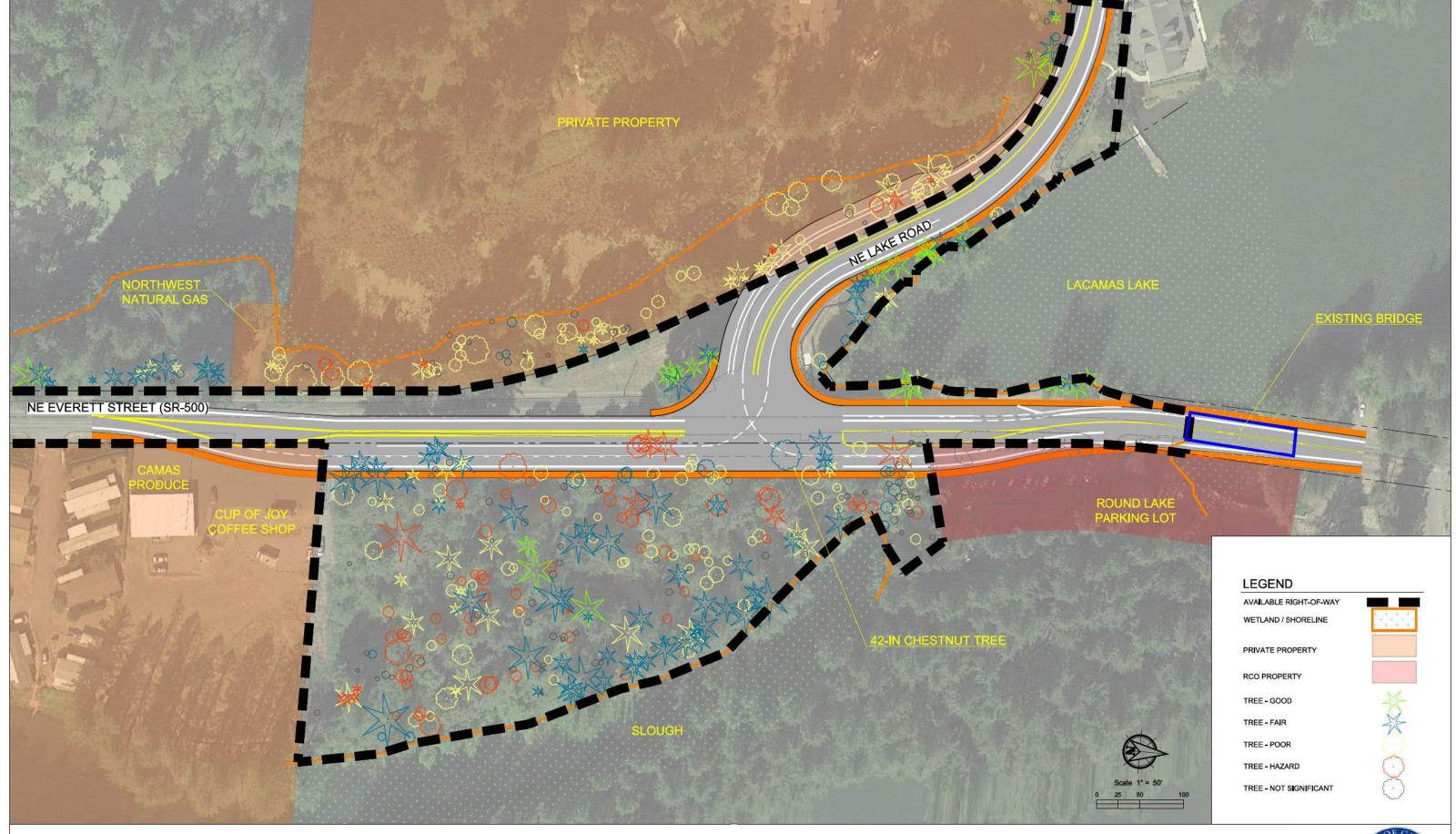
Appendix A Alternative Layouts







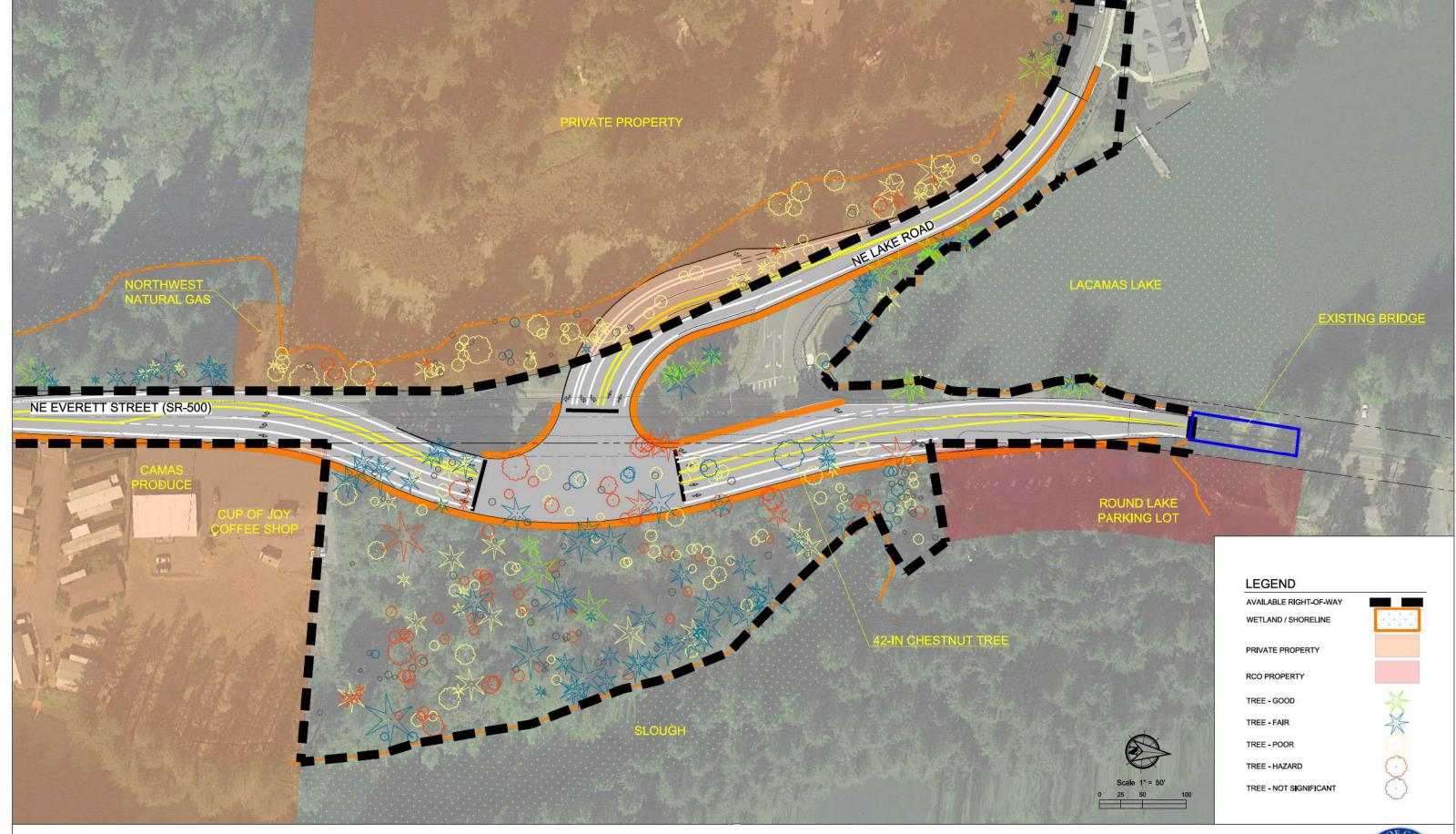






LAKE RD & EVERETT ST INTERSECTION IMPROVEMENTS SIGNALIZED INTERSECTION - ALTERNATIVE 1

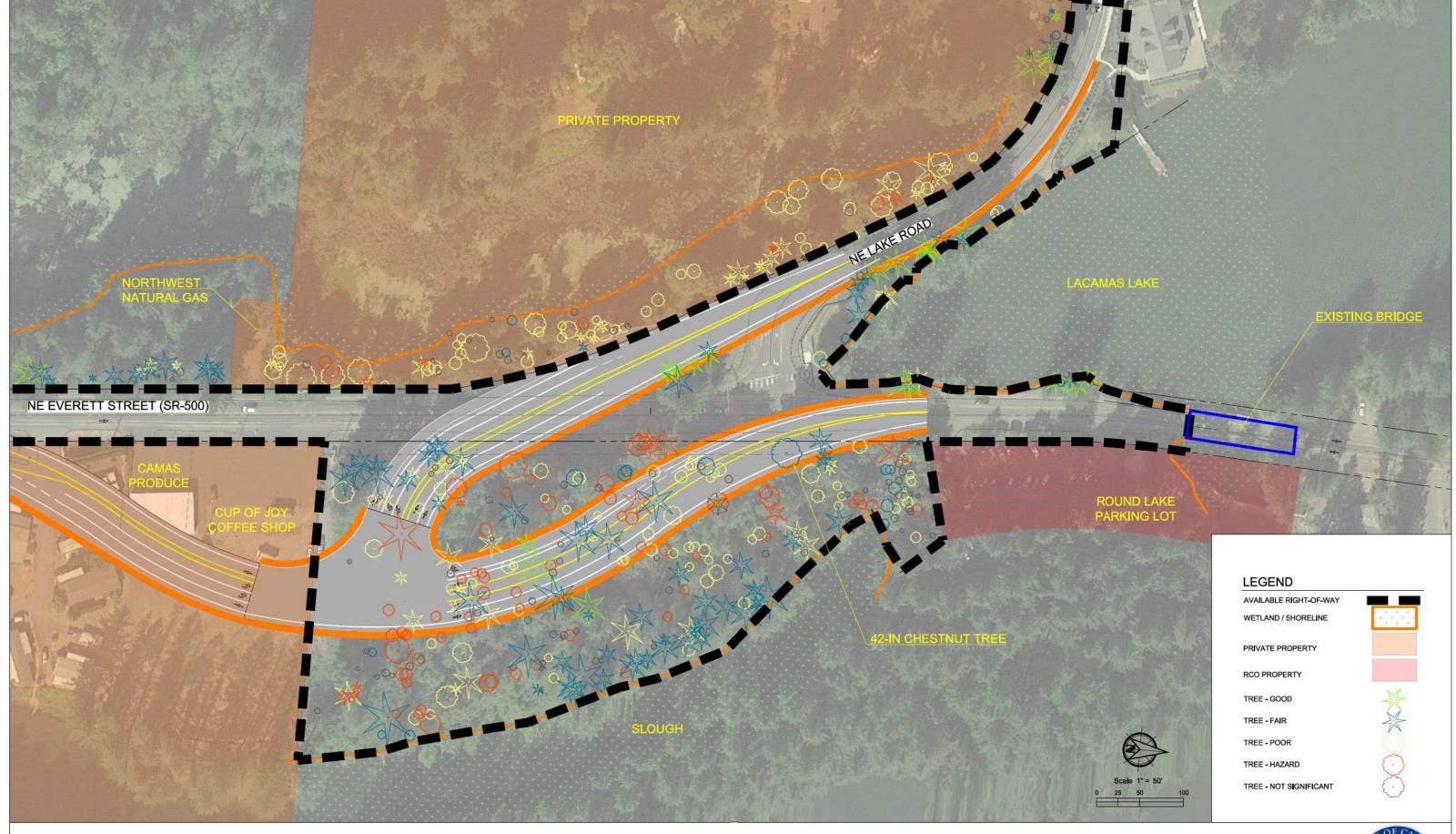






LAKE RD & EVERETT ST INTERSECTION IMPROVEMENTS SIGNALIZED INTERSECTION - ALTERNATIVE 2

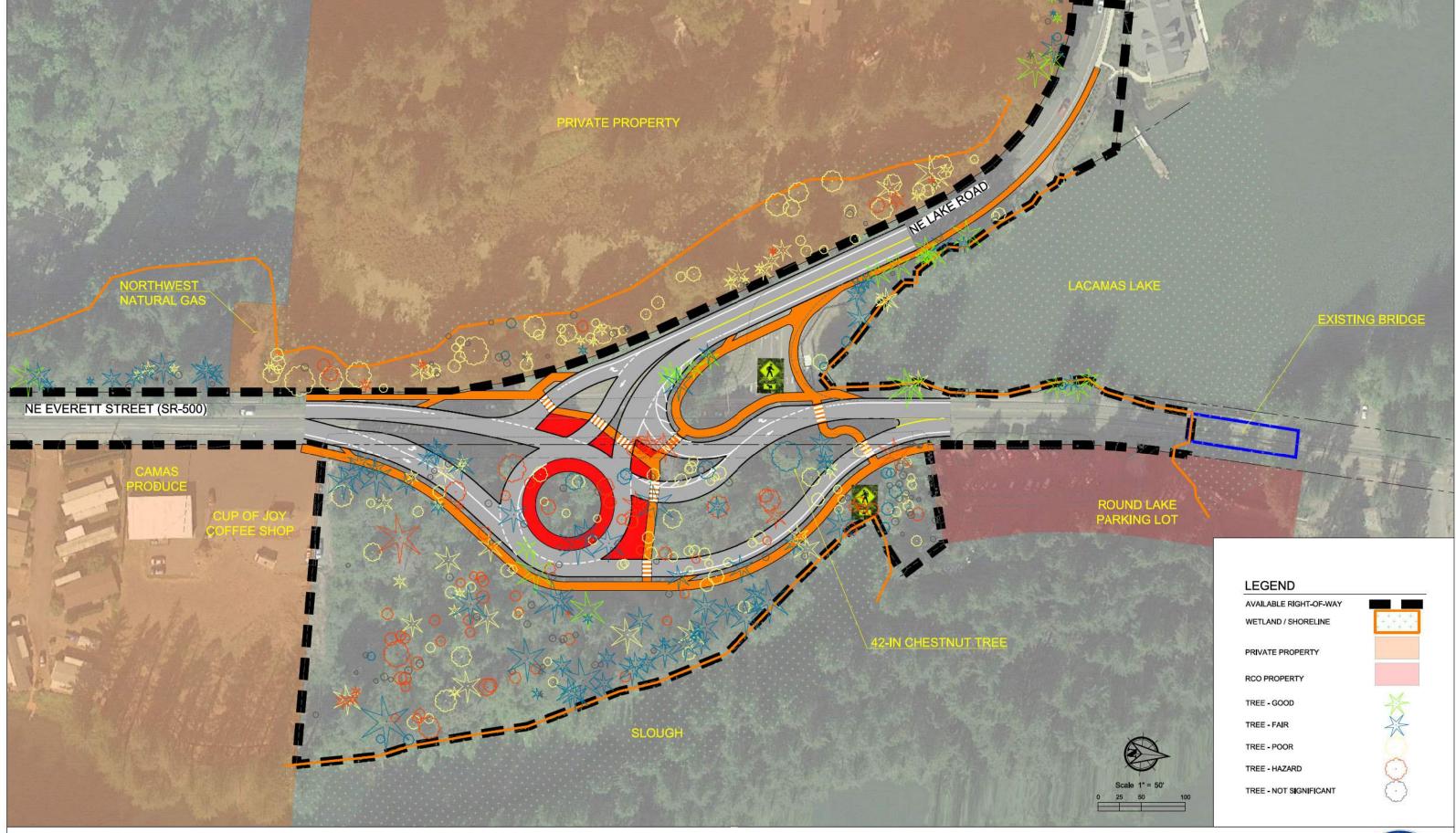






LAKE RD & EVERETT ST INTERSECTION IMPROVEMENTS SIGNALIZED INTERSECTION - ALTERNATIVE 3

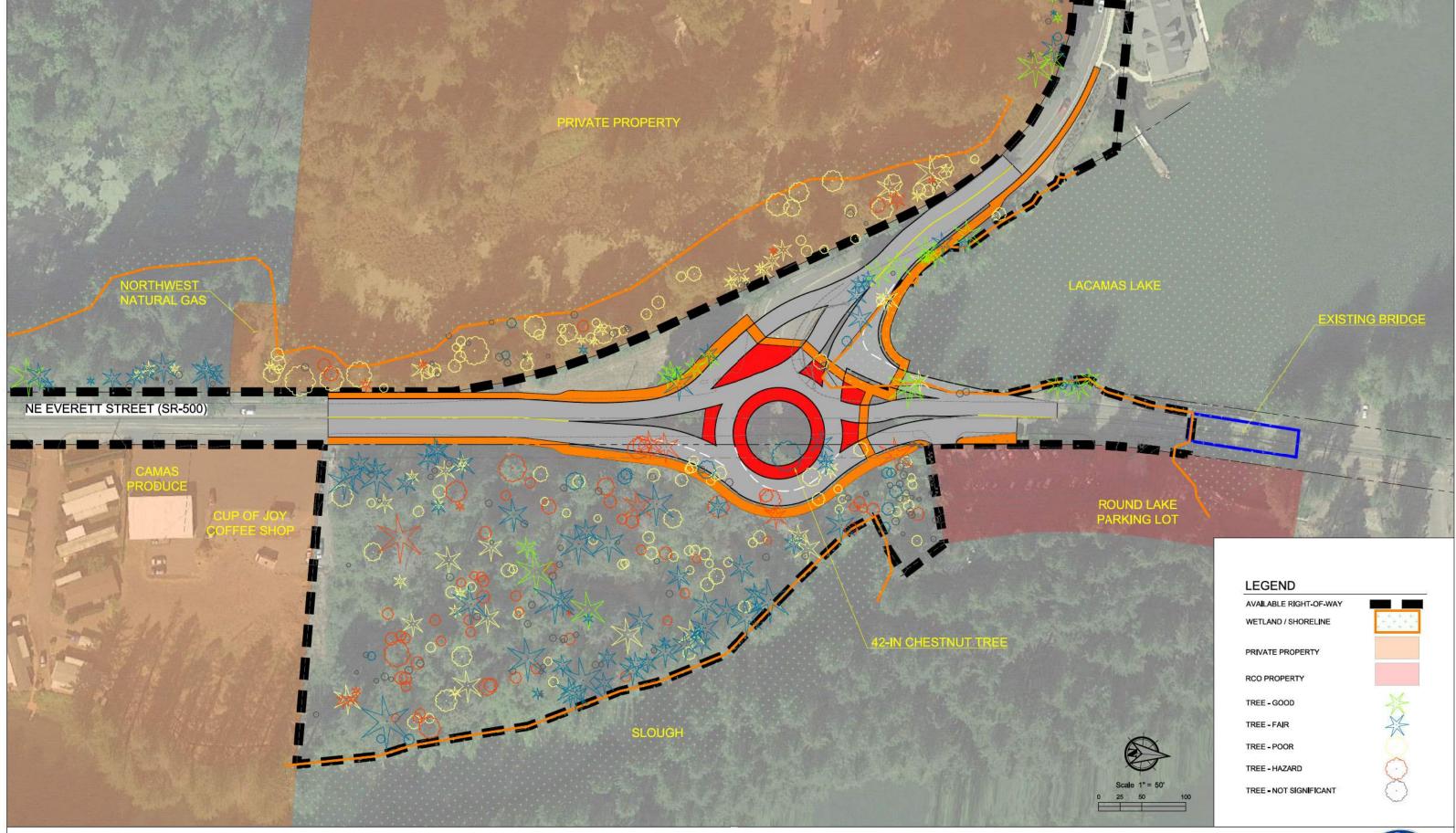






LAKE RD & EVERETT ST INTERSECTION IMPROVEMENTS ROUNDABOUT ALTERNATIVE 1

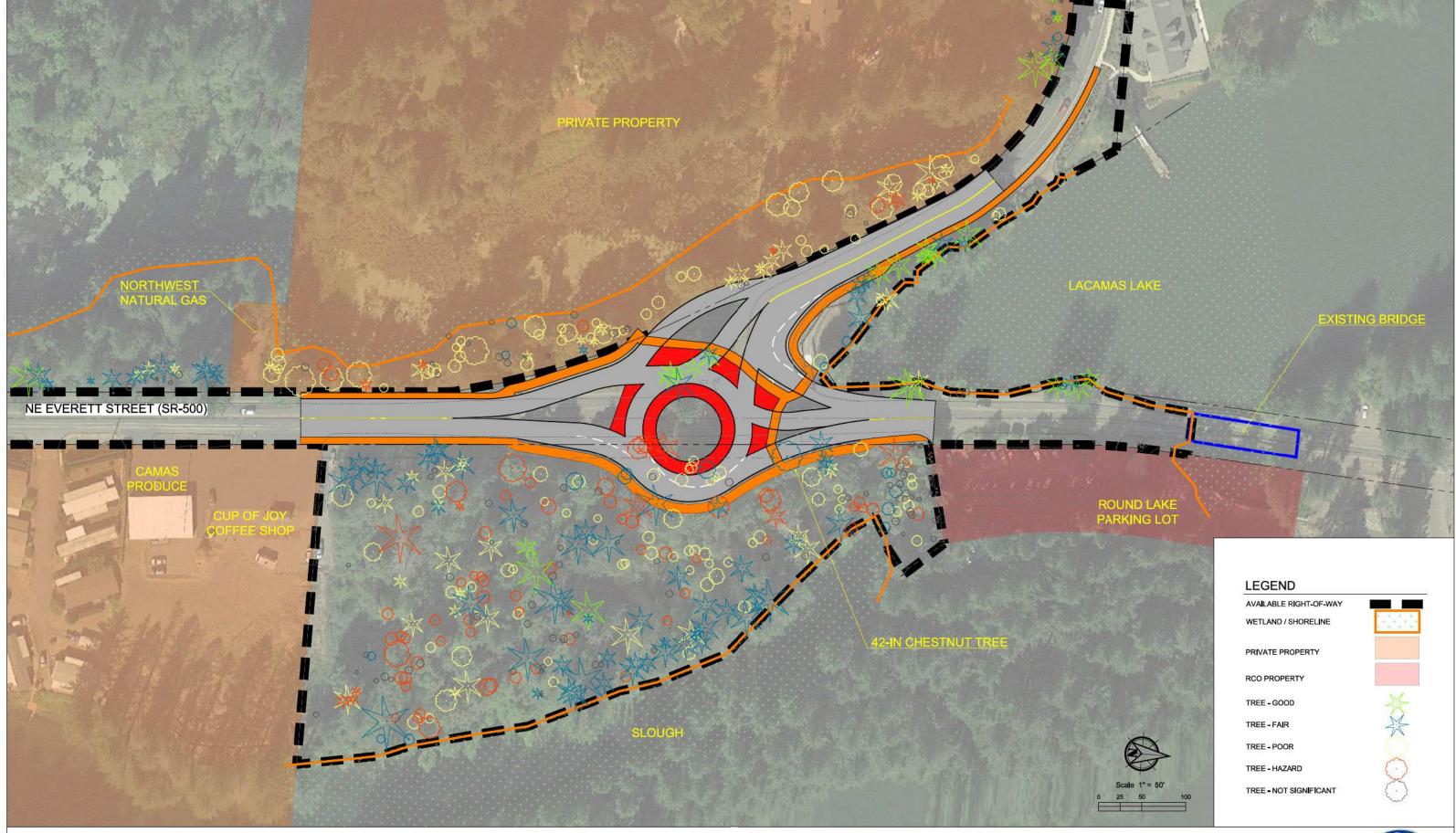






LAKE RD & EVERETT ST INTERSECTION IMPROVEMENTS ROUNDABOUT ALTERNATIVE 2







LAKE RD & EVERETT ST INTERSECTION IMPROVEMENTS ROUNDABOUT ALTERNATIVE 3



Appendix B Cost Estimates

NE Everett Street and NW Lake Road Roundabout City of Camas

Concept Engineer's Estimate Prepared by PBS Cost Summary by Alternative March 12, 2019

	Signal			Roundabout			
Item	Alt 1	Alt 2	Alt 3	Alt 1	Alt 2	Alt 3	
Roadway Improvements*	\$6,430,000	\$6,430,000	\$6,430,000	\$5,850,000	\$5,850,000	\$5,850,000	
Bridge Replacement*	\$9,470,000	\$0	\$0	\$0	\$0	\$0	
Round Lake Parking Impacts*	\$660,000	\$0	\$0	\$0	\$0	\$0	
Private Property Impact	\$330,000	\$680,000	\$3,240,000	\$25,000	\$35,000	\$105,000	
City Property Impact	\$225,000	\$475,000	\$625,000	\$505,000	\$150,000	\$140,000	
Utility Adjustment & Relocation*	\$1,170,000	\$1,220,000	\$270,000	\$270,000	\$1,090,000	\$1,120,000	
Construction Staging/Traffic Control	\$1,330,000	\$900,000	\$900,000	\$180,000	\$1,160,000	\$1,160,000	
Walls	\$0	\$0	\$0	\$0	\$1,630,000	\$390,000	
Wetland Impacts (Direct)	\$0	\$45,000	\$0	\$0	\$110,000	\$0	
Total Cost	\$19,620,000	\$9,750,000	\$11,470,000	\$6,830,000	\$10,030,000	\$8,770,000	

Cost Add Alternatives	Additive Costs			
Project Aesthetics	\$500,000 - \$1,000,000			
Pedestrian Overpass	\$2,750,000			
Additional Parking	\$660,000			

NE Everett Street and NW Lake Road Roundabout City of Camas

Concept Engineer's Estimate Prepared by PBS Baseline Signalized Alternative Roadway Improvement Cost March 12, 2019

Item No. Quantity Unit		Unit	Description		Unit Price		Combined Total	
1	1		Mobilization (10%)	\$	330,000.00	\$	330,000	
2	1	LS	Construction Surveying (1.5%)	\$	50,000.00	\$	50,000	
			Preparation					
3		LS	Clearing and Grubbing	\$	20,000.00	\$	20,000	
4	1	LS	Removal of Structures and Obstructions	\$	122,000.00	\$	122,000	
			Grading					
5	14,000	CY	Roadway Excavation Incl. Haul	\$	25.00	\$	350,000	
6	14,000		Gravel Borrow Incl. Haul	\$	20.00	\$	280,000	
	0.400	TON	Surfacing	Φ.	00.00	Φ.	057.000	
7	9,400		Crushed Surfacing Base Course	\$	38.00	\$	357,200	
8	4,800	ION	HMA CL 1/2" PG 70-22	\$	120.00	\$	576,000	
			Storm Sewer					
9	2,150	LF	Schedule A Storm Sewer Pipe	\$	80.00	\$	172,000	
10	22	EA	Catch Basin	\$	2,000.00	\$	44,000	
11	13	EA	Manhole 48 In. Diam	\$	3,500.00	\$	45,500	
12	1	LS	Water Quality	\$	100,000.00	\$	100,000	
			Erosion Control and Water Pollution Control					
13	1	LS	Erosion Control and Water Pollution Control	\$	20,000.00	\$	20,000	
	<u>-</u>			тт		<u> </u>		
			Roadside Restoration					
14	21,500	SF	Basic Landscaping	\$	8.00	\$	172,000	
			Other Items					
15	4,100	LF	Cement Conc. Traffic Curb	\$	35.00	\$	143,500	
16	2,200		Cement Conc. Sidewalk	\$	90.00	\$	198,000	
17		EA	Cement Conc. Curb Ramp	\$	3,500.00	\$	21,000	
18	11	EA	Field Adjustment for Utility Crossings	\$	5,000.00	\$	55,000	
19	17		Existing Utility Structure Adjustment	\$	2,500.00	\$	42,500	
20	1	LS	Illumination System	\$	190,000.00	\$	190,000	
21	1	LS	Signal	\$	350,000.00	\$	350,000	
21	1	LS	Permanent Signing	\$	25,000.00	\$	25,000	
22	1	LS	Permanent Striping	\$	20,000.00	\$	20,000	
23	2,150	LF	Joint Utility Trench	\$	10.00	\$	21,500	
24	1	LS	RRFB	\$	100,000.00	\$	100,000	
		_	Total			\$	3,805,000	
			Contingency (30%)			\$	1,141,000	
			Construction Total			\$	4,946,000	
			Engineering PS+E (15%)			\$	742,000	
			Construction Management (15%)			\$	742,000	
			Total			\$	6,430,000	

Concept Engineer's Estimate Prepared by PBS Baseline Roundabout Alternative Roadway Improvement Cost March 12, 2019

Item No.	Quantity	Unit	Description		Unit Price	(Combined Total
1		LS	Mobilization (10%)	\$	300,000.00	\$	300,000
2		LS	Construction Surveying (1.5%)	\$	45,000.00		45,000
			, ,		,		,
			Preparation	_		_	
3		LS	Clearing and Grubbing	\$	20,000.00	\$	20,000
4	1	LS	Removal of Structures and Obstructions	\$	130,000.00	\$	130,000
			Grading				
5	10,000		Roadway Excavation Incl. Haul	\$	25.00	\$	250,000
6	10,000	CY	Gravel Borrow Incl. Haul	\$	20.00	\$	200,000
			Surfacing				
7	4,100	TON	Crushed Surfacing Base Course	\$	38.00	\$	156,000
8	1,900		HMA CL 1/2" PG 70-22	\$	120.00		228,000
			Otoma Comon				
9	1,500	1 =	Storm Sewer Schedule A Storm Sewer Pipe	\$	80.00	\$	120,000
10		EA	Catch Basin	<u>Ψ</u>	2,000.00	\$	30,000
11		EA	Manhole 48 In. Diam	<u>Ψ</u>	3,500.00		35,000
12		LS	Water Quality	<u>Ψ</u>	100,000.00		100,000
				Ψ		<u> </u>	.00,000
40			Erosion Control and Water Pollution Control		00 000 00	•	00.000
13	1	LS	Erosion Control and Water Pollution Control	\$	20,000.00	\$	20,000
			Roadside Restoration				
14	54,000	SF	Basic Landscaping	\$	8.00	\$	432,000
			Other Items				
15	4,700	LF	Cement Conc. Traffic Curb	\$	35.00	\$	164,500
16	850	LF	Cement Conc. Roundabout Curb	\$	50.00	\$	42,500
17	750		Cement Conc. Pavement	\$	800.00	\$	600,000
18	2,100		Cement Conc. Sidewalk	\$	90.00	\$	189,000
19		EA	Cement Conc. Curb Ramp	\$	3,500.00	\$	10,500
20	7	EA	Field Adjustment for Utility Crossings	\$	5,000.00	\$	35,000
21	9	EA	Existing Utility Structure Adjustment	\$	2,500.00	\$	22,500
22			Illumination System	\$	170,000.00	\$	170,000
23	1	LS	Permanent Signing	\$	25,000.00	\$	25,000
24		LS	Permanent Striping	\$	20,000.00	\$	20,000
25	1,500		Joint Utility Trench	\$	10.00	\$	15,000
26	1	LS	RRFB	\$	100,000.00	\$	100,000
			Total			\$	3,460,000
			Contingency (30%)			\$	1,040,000
			Construction Total			\$	4,500,000
			Engineering PS+E (15%)			\$ 6	675,000
			Construction Management (15%)			\$	675,000
			Total			\$	5,850,000

Concept Engineer's Estimate Prepared by PBS Round Lake Parking Lot Impact Cost March 12, 2019

	O a matita .				С	ombined
tem No.	Quantity		Description (4000)	 Unit Price	•	Total
1		LS	Mobilization (10%)	\$ 34,000.00	\$	34,000
2	1	LS	Construction Surveying (1.5%)	\$ 5,100.00	\$	5,100
			Traffic Control			
3	1	LS	Project Temporary Traffic Control (15%)	\$ 51,000.00	\$	51,000
			Preparation			
4	1	LS	Clearing and Grubbing	\$ 5,000.00	\$	5,000
5	1	LS	Removal of Structures and Obstructions	\$ 15,000.00	\$	15,000
			Grading			
6	1,000	CY	Earthwork	\$ 25.00	\$	25,000
			Surfacing			
7	610	TON	Crushed Surfacing Base Course	\$ 38.00	\$	23,180
8		TON	HMA CL 1/2" PG 70-22	\$ 120.00	\$	61,200
			Storm Sewer			
9	300	LF	Schedule A Storm Sewer Pipe	\$ 80.00	\$	24,000
10	4		Catch Basin	\$ 2,000.00	\$	8,000
11	3	EA	Manhole 48 In. Diam	\$ 3,500.00	\$	10,500
12	1	LS	Water Quality	\$ 27,000.00	\$	27,000
			Erosion Control and Water Pollution Control			
13	1	LS	Erosion Control and Water Pollution Control	\$ 10,000.00	\$	10,000
			Other Items			
14	600	LF	Cement Conc. Traffic Curb	\$ 35.00	\$	21,000
15	120	SY	Cement Conc. Sidewalk	\$ 90.00	\$	10,800
16	2	EA	Cement Conc. Curb Ramp	\$ 3,500.00	\$	7,000
			Total		\$	338,000
			Contingency (30%)		\$	102,000
			Construction Total		\$	440,000
	15,000		Property Acquisition	\$ 5.00	\$	75,000
-	1	EA	Property Acquisition Process	\$ 15,000.00	\$	15,000
			Engineering PS+E (15%)		\$	65,000
			Construction Management (15%)		\$	65,000
			Total		\$	660,000

Concept Engineer's Estimate Prepared by PBS Everett Street Bridge Replacement Cost March 12, 2019

tem No.	Quantity	Unit	Description		Unit Price	(Combined Total
1		LS	Mobilization (10%)	\$	560,000.00	\$	560,000
2		LS	Construction Surveying (1.5%)	φ \$	90,000.00		90,000
		LO	Construction Surveying (1.5%)	φ	90,000.00	Ф	90,000
			Traffic Control				
3	1	LS	Project Temporary Traffic Control (20%)	\$	1,120,000.00	\$	1,120,000
			Preparation				
4	1	LS	Clearing and Grubbing	\$	10,000.00	\$	10,00
5		LS	Removal of Structures and Obstructions	\$	5,000.00		5,000
			Grading				
6	2,000	CY	Roadway Excavation Incl. Haul	\$	25.00	\$	50,000
7	6,000		Gravel Borrow Incl. Haul	\$	20.00		120,000
			Surfacing				
8	1,650		Crushed Surfacing Base Course	\$	38.00		62,70
9	790	TON	HMA CL 1/2" PG 70-22	\$	120.00	\$	94,80
			Storm Sewer				
10	450		Schedule A Storm Sewer Pipe	\$	80.00	\$	36,000
11		EA	Catch Basin	\$	2,000.00		10,00
12		EA	Manhole 48 In. Diam	\$	3,500.00		14,000
13	1	LS	Water Quality	\$	32,000.00	\$	32,00
			Erosion Control and Water Pollution Control				
14	1	LS	Erosion Control and Water Pollution Control	\$	50,000.00	\$	50,000
			Other Items				
15	1	LS	Temporary Bridge	\$	2,420,000.00	\$	2,420,000
16		LS	Retaining Walls	\$	800,000.00		800,000
17	900	LF	Cement Conc. Traffic Curb	\$	35.00		31,50
18	700	SY	Cement Conc. Sidewalk	\$	90.00	\$	63,000
19		EA	Cement Conc. Curb Ramp	\$	3,500.00	\$	14,00
			Total			\$	5,590,00
			Contingency (30%)			\$	1,680,00
			Construction Total			\$	7,270,00
			Engineering PS+E (15%)			\$	1,100,00
			Construction Management (15%)			\$	1,100,000
			Total			\$	9,470,00

Concept Engineer's Estimate Prepared by PBS Alternative-Dependent Cost Summary (Signal Alternative 1) March 12, 2019

tem No.	Quantity	Unit	Description		Unit Price		Combined Total
			OTHER COSTS FOR SIGNAL ALTERNATIVE 1				
			Wetland Impacts	•	000 000 00	•	
1	-	Acre	Wetland Impact	\$	300,000.00	\$	-
2	-	LS	Wetland Impact Permitting	\$	30,000.00	\$	-
			Wetland Impact Subtotal			\$	-
			Contingency (30%)			\$	-
			Wetland Impact Total			\$	-
			Retaining Walls				
3	-	SF	Retaining Walls	\$	65.00	\$	-
			Dataining Wall Cubtotal			¢	
			Retaining Wall Subtotal Contingency (30%)			\$ \$	-
			Construction Total			\$	
			Engineering PS+E (15%)			\$	-
			Construction Management (15%)			\$	
			Retaining Wall Total			\$	-
			Traffic Control/Staging				
4	2,100		Barrier	\$	40.00	\$	84,0
5			Flagging	\$	4,800.00	\$	76,00
6	1	LS	Misc Traffic Control	\$	50,000.00	\$	50,00
7 8	1 1	EA LS	Temp Signal	\$	150,000.00 660,000.00	\$	150,00 660,00
0	1	LS	Staging	\$	660,000.00	Ф	000,00
			Traffic Control/Staging Subtotal			\$	1,020,00
			Contingency (30%)			\$	310,00
			Traffic Control/Staging Total			\$	1,330,00
			Private Property Impact Costs				
9	19,000	SF	Property Acquisition	\$	10.00	\$	190,00
10	4	EA	Property Acquisition Processing	\$	15,000.00	\$	60,00
11	_	EA	Relocation (Commercial)	\$	1,000,000.00	\$	-
12	-	EA	Relocation (Residential)	\$	250,000.00	\$	-
			Private Property Impact Subtotal			\$	250,00
			Contingency (30%) Private Property Impact Total			\$ \$	80,00 330,0 0
			Private Property impact rotal			Þ	330,00
			City Property Impact (Legacy Lands)				
13	32,000	SF	Legacy Lands Acquisition	\$	5.00	\$	160,00
			City Property Subtotal			\$	160,00
			Contingency (30%)			\$	50,00
	1	EA	Property Acquisition Processing			\$	15,00
			City Property Total			\$	225,00

Concept Engineer's Estimate Prepared by PBS Alternative-Dependent Cost Summary (Signal Alternative 1) March 12, 2019

em No.	Quantity	Unit	Description	Unit Price	(Combined Total
			Heller have and On the			
			Utility Impact Costs	 		
14		EA	Overhead Utility Pole Relocations (by Others)	\$ 10,000.00	\$	130,000
15	11	LS	Overhead Realignment (by Others)	\$ 500,000.00	\$	500,000
			Utility Impact Subtotal		\$	630,000
			Contingency (30%)		\$	190,000
			Construction Total		\$	820,000
	11,000	SF	Easement	\$ 10.00	\$	110,00
			Engineering PS+E (15%)		\$	120,00
			Construction Management (15%)		\$	120,000
			Utility Impact Total		\$	1,170,000

Concept Engineer's Estimate Prepared by PBS Alternative-Dependent Cost Summary (Signal Alternative 2) March 12, 2019

Item No.	Quantity	Unit	Description		Unit Price	C	ombined Total
			OTHER COSTS FOR SIGNAL ALTERNATIVE 1				
			Wetland Impacts	_			= 000
1		Acre	Wetland Impact	\$	300,000.00	\$	5,000
2	1	LS	Wetland Impact Permitting	\$	30,000.00	\$	30,000
			Wetland Impact Subtotal			\$	35,000
			Contingency (30%)			\$	10,000
			Wetland Impact Total			\$	45,000
			Data in in at Malla				
3		SF	Retaining Walls Retaining Walls	\$	65.00	\$	_
		<u> </u>		Ψ	00.00	Ψ	
			Retaining Wall Subtotal			\$	-
			Contingency (30%)			\$	-
			Construction Total			\$	-
			Engineering PS+E (15%)			\$	-
			Construction Management (15%)			\$	
			Retaining Wall Total			\$	-
			Traffic Control/Staging				
4	2,100	I F	Barrier	\$	40.00	\$	84,000
5		Week	==:::=:	\$	4,800.00	\$	76,000
6	10	LS	Misc Traffic Control	\$	50,000.00	\$	50,000
7	1	EA	Temp Signal	\$	150,000.00		150,000
8	1	LS	Staging	\$	330,000.00	\$	330,000
			Traffic Control/Staging Subtotal			\$	690,000
			Contingency (30%)			\$	210,000
			Traffic Control/Staging Total			\$	900,000
			District Branch Lawrence Control				
9	21,400	SF	Private Property Impact Costs Property Acquisition	\$	10.00	\$	214,000
10	4	EA	Property Acquisition Processing	\$	15,000.00	\$	60,000
11		EA	Relocation (Commercial)	\$	1,000,000.00	\$	- 00,000
12	1	EA	Relocation (Residential)	\$	250,000.00	\$	250,000
			Private Property Impact Subtotal			\$	524,000
			Contingency (30%)			\$	156,000
			Private Property Impact Total			\$	680,000
13	70,000	SF	City Property Impact (Legacy Lands) Legacy Lands Acquisition	\$	5.00	\$	350,000
10	70,000	51		Ψ	5.00		
			City Property Subtotal			\$	350,000
	4	ΕΛ	Contingency (30%)			\$	110,000
	1	EA	Property Acquisition Processing			\$	15,000
			City Property Total			\$	475,000

Concept Engineer's Estimate Prepared by PBS Alternative-Dependent Cost Summary (Signal Alternative 2) March 12, 2019

tem No.	Quantity	Unit	Description	Unit Price	(Total
			Utility Impact Costs			
14	15	EA	Overhead Utility Pole Relocations (by Others)	\$ 10,000.00	\$	150,000
15		LS	Overhead Realignment (by Others)	\$ 500,000.00	\$	500,000
			Utility Impact Subtotal		\$	650,000
			Contingency (30%)		\$	200,000
			Construction Total		\$	850,000
	11,000	SF	Easement	\$ 10.00	\$	110,000
			Engineering PS+E (15%)		\$	130,000
			Construction Management (15%)		\$	130,000
			Utility Impact Total		\$	1,220,000

Concept Engineer's Estimate Prepared by PBS Alternative-Dependent Cost Summary (Signal Alternative 3) March 12, 2019

	Overetite						Combined
Item No.	Quantity	Unit	Description OTHER COSTS FOR SIGNAL ALTERNATIVE 4		Unit Price		Total
			OTHER COSTS FOR SIGNAL ALTERNATIVE 1				
4		۸۵۳۵	Wetland Impacts	Φ.	200 000 00	Φ.	
2	-	Acre	Wetland Impact Wetland Impact Permitting	<u>\$</u> \$	300,000.00	\$	-
	-	LS	welland impact Permitting	Ъ	30,000.00	\$	-
			Wetland Impact Subtotal			\$	_
			Contingency (30%)			\$	
			Wetland Impact Total			\$	
			Wettand Impact Total			Ψ	
			Retaining Walls				
3	-	SF	Retaining Walls	\$	65.00	\$	-
			Retaining Wall Subtotal			\$	-
			Contingency (30%)			\$	-
			Construction Total			\$	•
			Engineering PS+E (15%)			\$	-
			Construction Management (15%)			\$	-
			Retaining Wall Total			\$	-
			Troffic Control/Stoning				
4	2,100	16	Traffic Control/Staging Barrier	Ф.	40.00	Φ.	84,000
5		Week		\$ \$	4,800.00	\$ \$	76,000
6	10	LS	Misc Traffic Control	\$	50,000.00		50,000
7	1	EA	Temp Signal	\$	150,000.00		150,000
8	1	LS	Staging	\$	330,000.00	\$	330,000
-	<u> </u>						
			Traffic Control/Staging Subtotal			\$	690,000
			Contingency (30%)			\$	210,000
			Traffic Control/Staging Total			\$	900,000
			Private Property Impact Costs				
9	68,200		Property Acquisition	\$	10.00	\$	682,000
10		EA	Property Acquisition Processing	\$	15,000.00		60,000
11 12	<u>1</u> 3	EA EA	Relocation (Commercial)	\$	1,000,000.00 250,000.00	\$ \$	1,000,000
12	3	EA	Relocation (Residential)	\$	∠50,000.00	ф	750,000
			Private Property Impact Subtotal			\$	2,492,000
			Contingency (30%)			\$	748,000
			Private Property Impact Total			\$	3,240,000
						Ψ	J,= .U,UU
			City Property Impact (Legacy Lands)				
13	94,000	SF	Legacy Lands Acquisition	\$	5.00	\$	470,000
			City Property Subtotal			\$	470,000
			Contingency (30%)			\$	140,000
	1	EA	Property Acquisition Processing			\$	15,000
			City Property Total			\$	625,000

Concept Engineer's Estimate Prepared by PBS Alternative-Dependent Cost Summary (Signal Alternative 3) March 12, 2019

em No.	Quantity	Unit	Description	Unit Price	C	ombined Total
			Utility Impact Costs			
14	9	EA	Overhead Utility Pole Relocations (by Others)	\$ 10,000.00	\$	90,000
15	-	LS	Overhead Realignment (by Others)	\$ 500,000.00	\$	-
			Utility Impact Subtotal		\$	90,000
			Contingency (30%)		\$	30,000
			Construction Total		\$	120,000
	11,000	SF	Easement	\$ 10.00	\$	110,000
			Engineering PS+E (15%)		\$	20,000
			Construction Management (15%)		\$	20,000
			Utility Impact Total		\$	270,000

Concept Engineer's Estimate Prepared by PBS Alternative-Dependent Cost Summary (Roundabout Alternative 1) March 12, 2019

tem No.	Quantity	Unit	Description		Unit Price	C	ombined Total
			OTHER COSTS FOR SIGNAL ALTERNATIVE 1				
		_	Wetland Impacts				
1	-	Acre	Wetland Impact	\$	300,000.00	\$	-
2	-	LS	Wetland Impact Permitting	\$	30,000.00	\$	-
			Wetland Impact Subtotal			\$	_
			Contingency (30%)			\$	-
			Wetland Impact Total			\$	-
			·				
			Retaining Walls				
3	-	SF	Retaining Walls	\$	65.00	\$	-
			Retaining Wall Subtotal			\$	-
			Contingency (30%)			\$	-
			Construction Total			\$	-
			Engineering PS+E (15%)			\$	-
			Construction Management (15%)			\$	-
			Retaining Wall Total			\$	-
			Tueffia Control (Otonio n				
4	775	1.5	Traffic Control/Staging Barrier	Φ.	40.00	Φ.	31,00
5			Flagging	\$ \$	4,800.00	\$	58,00
6	1	LS	Misc Traffic Control	\$	50,000.00	\$	50,00
7		EA	Temp Signal	\$	150,000.00	\$	-
8	-	LS	Staging	\$	300,000.00	\$	-
			Traffic Control/Staging Subtotal			\$	139,00
			Contingency (30%)			\$	41,00
			Traffic Control/Staging Total			\$	180,00
9	500	SE	Private Property Impact Costs Property Acquisition	\$	10.00	\$	5,00
10	1	EA	Property Acquisition Processing		15,000.00	\$	15,00
11	<u> </u>	EA	Relocation (Commercial)	<u>Ψ</u> \$	1,000,000.00	\$	10,00
12	-	EA	Relocation (Residential)	\$	250,000.00	\$	-
			Private Property Impact Subtotal			\$	20,00
			Contingency (30%)			\$	5,00
			Private Property Impact Total			\$	25,00
13	75,000	SF	City Property Impact (Legacy Lands) Legacy Lands Acquisition	\$	5.00	\$	380,00
	. 5,550			Ψ	2.30	·	
			City Property Subtotal			\$	380,00
			Canting and a 1 (200)			Φ	
	1	EA	Contingency (30%) Property Acquisition Processing			\$	110,00 15,00

Concept Engineer's Estimate Prepared by PBS Alternative-Dependent Cost Summary (Roundabout Alternative 1) March 12, 2019

em No.	Quantity	Unit	Description		Unit Price	C	ombined Total
			Utility Impact Costs				
14	9	EA	Overhead Utility Pole Relocations (by Others)	\$	10,000.00	\$	90,000
	9			,		т	90,000
15	-	LS	Overhead Realignment (by Others)	\$	500,000.00	\$	-
			Utility Impact Subtotal			\$	90,000
			Contingency (30%)			\$	30,000
			Construction Total			\$	120,000
	11,000	SF	Easement	\$	10.00	\$	110,00
			Engineering PS+E (15%)			\$	20,00
			Construction Management (15%)			\$	20,00
			Utility Impact Total			\$	270,00

Concept Engineer's Estimate Prepared by PBS Alternative-Dependent Cost Summary (Roundabout Alternative 2) March 12, 2019

tem No.	Quantity	Unit	Description		Unit Price		Combined Total
			OTHER COSTS FOR SIGNAL ALTERNATIVE 1				
4	0.40		Wetland Impacts	•	000 000 00	•	FF 00/
1		Acre	Wetland Impact	\$	300,000.00	\$	55,000
2	1	LS	Wetland Impact Permitting	\$	30,000.00	\$	30,000
			Wetland Impact Subtotal			\$	85,000
			Contingency (30%)			\$	25,000
			Wetland Impact Total			\$	110,000
			Retaining Walls				
3	1	LS	Lake Retaining Wall	\$	960,000.00	\$	960,000
			Retaining Wall Subtotal			\$	960,000
			Contingency (30%)			\$	290,000
			Construction Total			\$	1,250,000
			Engineering PS+E (15%)			\$	190,000
			Construction Management (15%)			\$	190,000
			Retaining Wall Total			\$	1,630,000
			Traffic Control/Staging				
4	775	IF	Barrier	\$	40.00	\$	31,000
5			Flagging	\$	4,800.00	\$	58,000
6	1	LS	Misc Traffic Control	\$	50,000.00	\$	50,000
7	1	EA	Temp Signal	\$	150,000.00	\$	150,000
8	1	LS	Staging	\$	600,000.00	\$	600,000
			Traffic Control/Staging Subtotal			\$	890,000
			Contingency (30%)			\$	270,000
			Traffic Control/Staging Total			\$	1,160,000
			Private Property Impact Costs				
9	1,200	SF	Property Acquisition	\$	10.00	\$	12,000
10	1	EA	Property Acquisition Processing	\$	15,000.00	\$	15,000
11	-	EA	Relocation (Commercial)	\$	1,000,000.00	\$	-
12	-	EA	Relocation (Residential)	\$	250,000.00	\$	-
			Private Property Impact Subtotal Contingency (30%)			\$	27,000
			Private Property Impact Total			\$	35,000
13	21,000	SF	City Property Impact (Legacy Lands) Legacy Lands Acquisition	\$	5.00	\$	105,000
	21,000	<u> </u>		Ψ	0.00		
			City Property Subtotal			\$	105,000
	1	EA	Contingency (30%) Property Acquisition Processing			\$	30,000 15,000
			L LODGLOV AGGUIANION ETOGGAANIO				

Concept Engineer's Estimate Prepared by PBS Alternative-Dependent Cost Summary (Roundabout Alternative 2) March 12, 2019

tem No.	Quantity	Unit	Description	Unit Price	(Combined Total
			Utility Impact Costs			
14	8	EA	Overhead Utility Pole Relocations (by Others)	\$ 10,000.00	\$	80,000
15	1	LS	Overhead Realignment (by Others)	\$ 500,000.00	\$	500,000
			Utility Impact Subtotal		\$	580,000
			Contingency (30%)		\$	180,000
			Construction Total		\$	760,000
	11,000	SF	Easement	\$ 10.00	\$	110,000
			Engineering PS+E (15%)		\$	110,000
			Construction Management (15%)		\$	110,000
			Utility Impact Total		\$	1,090,000

Concept Engineer's Estimate Prepared by PBS Alternative-Dependent Cost Summary (Roundabout Alternative 3) March 12, 2019

tem No.	Quantity	Unit	Description		Unit Price		Combined Total
			OTHER COSTS FOR SIGNAL ALTERNATIVE 1				
		_	Wetland Impacts				
1	-	Acre	Wetland Impact	\$	300,000.00	\$	-
2	-	LS	Wetland Impact Permitting	\$	30,000.00	\$	-
			Wetland Impact Subtotal			\$	-
			Contingency (30%)			\$	-
			Wetland Impact Total			\$	-
			Retaining Walls				
3	3,500	SF	Lake Retaining Wall	\$	65.00	\$	228,00
			Retaining Wall Subtotal			\$	228,00
			Contingency (30%)			\$	70,00
			Construction Total			\$	298,00
			Engineering PS+E (15%)			\$	46,00
			Construction Management (15%)			\$	46,00
			Retaining Wall Total			\$	390,00
			T (1) A 1 101				
4	775	1.5	Traffic Control/Staging Barrier	Φ.	40.00	Φ.	24.00
<u>4</u> 5			=	\$	40.00	\$ \$	31,00
6	12	LS	Flagging Misc Traffic Control	\$ \$	4,800.00 50,000.00	\$	58,00 50,00
7	<u>1</u>	EA	Temp Signal	\$	150,000.00	\$	150,00
8	1	LS	Staging Staging	\$	600,000.00	\$	600,00
			Traffic Control/Staging Subtotal			\$	890,00
			Contingency (30%)			\$	270,00
			Traffic Control/Staging Total			\$	1,160,00
			Duivete Dranasty Impact Coats				
9	5,000	QE.	Private Property Impact Costs Property Acquisition	Ф.	10.00	Φ	50,00
10		EA	Property Acquisition Processing	\$ \$	15,000.00	\$ \$	30,00
11		EA	Relocation (Commercial)	<u>Ψ</u>	1,000,000.00	\$	30,00
12	-	EA	Relocation (Residential)	\$	250,000.00	\$	<u>-</u>
			Private Property Impact Subtotal			\$	80,0
			Contingency (30%) Private Property Impact Total			\$ \$	25,00 105,0 0
40	40.000	C.E.	City Property Impact (Legacy Lands)	•	F.00	·	05.0
13	19,000	51	Legacy Lands Acquisition	\$	5.00	\$	95,00
			City Property Subtotal			\$	95,0
			Contingency (30%)			\$	30,00
	1	EA	Property Acquisition Processing			\$	15,00
			City Property Total			\$	140,0

Concept Engineer's Estimate Prepared by PBS Alternative-Dependent Cost Summary (Roundabout Alternative 3) March 12, 2019

tem No.	Quantity	Unit	Description	Unit Price	(Combined Total
			Utility Impact Costs	 		
14	9	EA	Overhead Utility Pole Relocations (by Others)	\$ 10,000.00	\$	90,000
15	1	LS	Overhead Realignment (by Others)	\$ 500,000.00	\$	500,000
			Utility Impact Subtotal		\$	590,000
			Contingency (30%)		\$	180,000
			Construction Total		\$	770,000
	11,000	SF	Easement	\$ 10.00	\$	110,000
			Engineering PS+E (15%)		\$	120,000
			Construction Management (15%)		\$	120,000
			Utility Impact Total		\$	1,120,000
			Utility Impact Total		\$	1,12

Appendix C Draft Traffic Report



INTERSECTION CONTROL MEMORANDUM

NE Lake Road/SR500 (NE Everett Street) Intersection Traffic Operations Analysis

Date: February 7, 2019

KAI Project #:23377

To: City of Camas

From: Hermanus Steyn, PE & Jamestaun Kraupp, EI

cc: Greg Jellison, PE & Cory Kratovil, PE

The City of Camas is conducting a planning and design project to improve the capacity and traffic conditions at the intersection of NE Lake Road and SR500 (NE Everette Street). The planning portion of this project is an assessment of the existing and projected 2040 conditions at the intersection to inform the intersection control evaluation. Signal and roundabout treatments have been identified as part of an operations analysis to provide the advantages and disadvantages of each. This information will assist the City of Camas define the project improvements moving forward, as well as right-of-way needs to be determined.

This memorandum provides a summary of the planning methodology, analysis, and alternatives considered. Key topics include:

- Existing intersection facilities: pedestrian/bicycle facilities, transit routes, intersection lane configuration, surrounding infrastructure.
- Existing traffic conditions: traffic control, and peak hour conditions.
- Intersection operation analysis assuming 2040 Regional Transportation Council (RTC) traffic volumes for a "No Build" intersection condition.
- Intersection operation analysis assuming 2040 RTC traffic volumes for an improved signalized intersection configuration.
- Intersection operation analysis assuming 2040 RTC traffic volumes for a roundabout configuration.
- A summary of intersection improvement needs and outstanding considerations that should be further discussed with the City of Camas

SUMMARY OF STUDY RECOMMENDATIONS

Table 1 summarizes the intersection control alternatives considered along with detailed considerations for each alternative.

Table 1: Summary of NE Lake Road and NE Everett Street Alternatives

Intersection Alternative	Details/Considerations
No Build	Maintain the existing lane configuration and signal timing of the intersection, with no improvements to the roadway geometry, intersection, or signal timing.
Improved Signalized Intersection	Widen intersection to provide dual left turn lanes with extended pockets along the eastbound and northbound approaches to meet capacity needs in the 2040 condition. Signal retiming optimized for intersection efficiency.
Multilane Roundabout	Implement a multilane roundabout with channelized right turns on the southbound and eastbound approaches to meet capacity needs in the 2040 condition. A roundabout would also provide traffic calming along the SR500 corridor.

PROJECT BACKGROUND

The study T-intersection of NE Lake Road and NE Everett Street is located south of to a pivotal bridge crossing surrounded by three large bodies of water and will be an essential intersection as areas to the north develop. This segment of SR500 is a regional connection to the City of Camas where there is limited access across the bodies of water. Both NE Lake Road and SR500 are classified as minor arterials according to the online Washington Department of Transportation (WSDOT) Functional Classification Map.

This portion of SR500 is a major north-south route connecting the center of downtown Camas to residential areas, educational facilities such as elementary schools, middle schools, and a high school, recreational areas and lodges along the lake, local hikes in the area, and local commercial developments. Figure 1 shows a general vicinity map and the study intersection.

2016 Study of NE Lake Road/SR500 Intersection

In 2016 a previous study, NW 6th Avenue / Everett Street (SR500) Corridor Study PBS Engineering and Environmental and DKS Associates, was completed for the NE Lake Road/SR500 intersection as part of a larger corridor study for the City of Camas. In this study, they defined improvements to intersections and segments of roadway within the city limits. The proposed improvements were based on an operational analysis of alternatives between a roundabout corridor and a signalized corridor with roundabouts at specific intersections.

##- Study Intersections

Site Vicinity Map Camas, Washington Figure 1



INTERSECTION ANALYSIS METHODOLOGY

The signalized stop controlled intersection analyses described in this memorandum were performed in accordance with the procedures stated in the *2000 Highway Capacity Manual* using Synchro 7. Analysis of intersection operations with roundabouts was conducted in accordance with the *Highway Capacity Manual 6th Editions* methodology using HCS7 and WSDOT roundabout methodology guidance.

To ensure the analyses were based on a reasonable worst-case scenario, the intersection evaluation used the weekday AM and PM peak hour volumes from traffic counts completed in January 2019, see Appendix A. The study times were expanded to include revised school start and end times that had been adjusted in the fall of 2018.

The 2040 future volumes were determined by following the National Cooperative Highway Research Program Report 255 (NCHRP 255) *Highway Traffic Data for Urbanized Project Planning and Design* and determining the growth rate based on the existing and 2040 RTC base models.

EXISTING CONDITIONS

The existing conditions analysis identifies the site conditions and current operational and geometric characteristics of the intersection in the study area. Kittelson & Associates, Inc. (Kittelson) staff visited and inventoried the NE Lake Road/SR500 intersection in January 2019. At that time, Kittelson collected information regarding site conditions, adjacent land uses, existing traffic operations, pedestrian facilities, bicycle facilities, transit routes, and lane configuration in the study area.

Traffic Counts

Weekday AM and PM turning movement counts along with tube counts were collected at the intersection of NE Lake Road and NE Everett Street on January 15th, 2019.

- Weekday AM counts conducted from 7:00 9:00 AM, peak hour 7:50 8:50 AM
- Weekday PM counts conducted from 2:30 5:30 PM, peak hour 3:15 4:15 PM

Pedestrian Facilities, Bicycle Facilities, and Transit Routes

Currently, there are limited existing pedestrian and bicycle facilities at the intersection and approaching segments of roadway where there is a lack of active transportation facilities surrounding the study area.

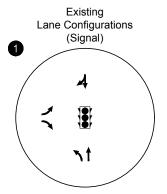
Further, there are no designated transit routes along the corridor.

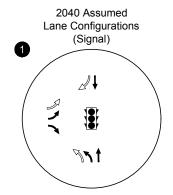
Traffic Operations Analysis

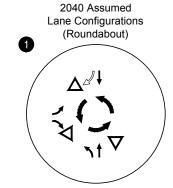
Figure 2 shows the existing lane configurations and traffic control devices at NE Lake Road/SR500 intersection. Figure 3 summarizes the existing intersection traffic volumes and operations. The two analysis periods in the weekday AM and PM were evaluated using signal timing data provided by Clark County, see Appendix B. The existing weekday AM peak hour represents the worst-case condition due to a higher Volume to Capacity Ratio (v/c). See Appendix C for the existing conditions Synchro 7 worksheets.

Figure 2 – Existing A.M. and P.M. peak hour turning movements figure











- TRAFFIC SIGNAL

- ROUNDABOUT

- PLANNED LANE CHANGE (ADDITION)

Existing & Year 2040 Assumed Lane Configurations & Traffic Control Devices Camas, Washington

Figure 2



LOS = INTERSECTION LEVEL OF SERVICE

Del = INTERSECTION AVERAGE CONTROL DELAY V/C = CRITICAL VOLUME-TO-CAPACITY RATIO Existing & 2040 Traffic Conditions Weekday AM & PM Peak Hours Camas, Washington

Figure 3



FUTURE CONDITIONS ANALYSIS

The 2040 RTC base model for the intersection of NE Lake Road and NE Everett accounts for the future residential, commercial, and industrial development of the City of Camas to the north. This will impact the travel demand patterns and capacity needs of the intersection.

With future development surrounding the study intersection and the existing community infrastructure such as educational facilities like an elementary school, a middle school, high schools, recreational areas and lodges along the lake, trails in the area, and local commercial developments. The future pedestrian volumes were assumed to increase (e.g., 20 pedestrians crossing each leg of the intersection during the peak hour) to reflect the anticipated activity and to be addressed as part of the intersection improvements.

See Appendix D for the 2015 and 2040 RTC Base Model projects for the Intersection.

Analysis Periods

The City of Camas seeks to provide sufficient intersection capacity to accommodate typical peak commuter travel demand. As was documented in the existing conditions analysis, peak travel demand in the study area currently occurs during the weekday AM peak hour. Weekday AM and PM peak hour travel demand model data provided by the RTC indicates that weekday AM peak hour volumes are generally expected to remain higher than the weekday PM peak hour volumes. The future conditions operations analysis focuses on both weekday AM and PM peak hour volumes at the study intersection.

Traffic Volume Development

Future year 2040 intersection turning movement volumes were developed using travel demand model information provided by RTC. Specifically, RTC provided travel demand modeling for base year 2015 and future year 2040 conditions reflecting on the planned regional transportation network for the weekday AM and PM peak hour.

Using the existing year 2019 intersection turn movement counts and the future year 2040 RTC traffic volume projections, year 2040 weekday AM and PM peak hour intersection turn movement projections were developed following the NCHRP 255 post-processing methodology. See Appendix E.

"No-Build" Future Intersection Operations

Future intersection operations were analyzed assuming no signal or other intersection improvements at the study intersection. Analysis of the future study intersection operations under this "No build" scenario found the existing intersection configurations yielded unacceptable conditions at the study intersection with the future 2040 traffic volumes.

The intersection is anticipated to operate at LOS F with a V/C ratio greater than one during the weekday AM peak hour and LOS Ewith a V/C ratio greater than one during the weekday PM peak hour. Queue lengths at the 95th percentile is shown in Table 2 and Table 3 for the weekday AM and PM peak hours, respectively.

Appendix F contains the 2040 No-Build weekday AM and PM peak hour analysis worksheets produced by Synchro 7.

EVALUATION OF INTERSECTION IMPROVEMENT ALTERNATIVES

A signalized intersection alternative and a multi-lane roundabout alternative were considered at the study intersection. A summary of the findings and implications at of the intersection is presented below.

Alternative #1 -Signalized Intersection Alternative

For this alternative, the study intersection was assumed to be improved by providing dual eastbound left turn lanes, dual northbound left turn lanes, and single southbound and eastbound right-turn lanes. The signal timing for the intersection was optimized.

With the widening of the intersection and projected 2040 vehicle volumes, the HCM 2000 analysis indicates that the intersection would operate at a LOS C in both the weekday AM and PM with V/C ratios of 0.76 and 0.64, respectively. Queue lengths at the 95th percentile are shown in Table 2 and Table 3 for the weekday AM and PM peak hours, respectively. Appendix G shows the optimized signal analysis and queue analysis worksheets for the weekday AM and PM peak hour traffic conditions produced by Synchro 7.

Alternative #2 -Roundabout Alternative

This alternative evaluates a multi-lane roundabout with turn lanes based on the travel patterns.

With the intersection re-constructed as a roundabout and projected 2040 vehicle volumes, the HCM 6th Edition analysis provided by HCS7 indicates that the roundabout would operate at a LOS C and LOS B during the weekday AM and PM peak hour, respectively. Queue lengths at the 95th percentile are shown in Table 2 and Table 3 for the weekday AM and PM peak hours, respectively. Appendix H shows the 2040 analysis of the roundabout configuration.

Queue Analysis

Queues are rounded to the nearest 25 foot interval for all movements. "+" indicated that the 95th percentile volume may exceed the capacity of the intersection, resulting in a longer queue.

Table 2: NE Lake Road/SR500 Intersection, Weekday AM Peak Hour Queue Lengths

			95th Percentile	Queue Length (feet)	
Direction	Lane Group	Existing	"No Build"	Alternative #1 Signalized Intersection	Alternative #2 Multilane Roundabout
Eastbound	Left	400	425	275+	100
Edstboullu	Right	50	75	175	75
Northbound	Left	300	775+	350+	75
Northbound	Thru	200	400	475	125
Southbound	thru	800+	1,675+	875	265
Southbound	Right	n/a	n/a	200	75

Table 3: NE Lake Road/SR500 intersection, Weekday PM Peak Hour Queue Lengths

			95th Percentile	Queue Length (feet)	
Direction	Lane Group	Existing	"No Build"	Alternative #1 Signalized Intersection	Alternative #2 Multilane Roundabout
Eastbound	Left	225	275	175	50
Eastboulld	Right	100	175	300	125
Northbound	Left	350+	425+	225	50
Northboulla	Thru	125	300	450	100
Southbound	thru	675+	1,225+	575	100
Southbound	Right	n/a	n/a	50	75

Performance of Intersection Improvement Options

Table 4 and Table 5 illustrate the weekday AM and PM peak hour intersection operational performance measures for the No-Build and two intersection alternatives for the study intersection.

Table 4: NE Lake Road/SR500 Intersection, 2040 Weekday AM Peak Hour Operations Comparison

Discotion	Laura Granna	L	evel-of-Servi	ice	Volum	ne-to-Capacity I	Ratio	Tota	l Delay (seco	nds)
Direction	Lane Group	No-Build	Alt #1	Alt #2	No-Build	Alt #1	Alt #2	No-Build	Alt #1	Alt #2
Fa ath a cod	Left	E	E	С	0.83	0.72	0.56	58.5	59.6	15.4
Eastbound	Right	D	С	В	0.18	0.29	0.45	38.5	21.7	12.3
No which accord	Left	F	E	А	>1.0	0.77	0.48	181.1	58.6	9.4
Northbound	Thru	В	В	В	0.51	0.52	0.65	10.6	12.0	13.5
Couthbound	Thru	F	D	D	>1.0	0.84	0.86	266.6	41.0	29.3
Southbound	Right	n/a	В	В	n/a	0.26	0.50	n/a	10.9	11.2
Interse	ection	F	С	С	>1.0	0.76	n/a	146.2	33.6	16.5

Table 5: NE Lake Road/SR500 Intersection, 2040 Weekday PM Peak Hour Operations Comparison

Discotion	Lawa Guarra	L	evel-of-Servi	ice	Volum	ne-to-Capacity I	Ratio	Tota	l Delay (seco	nds)
Direction	Lane Group	No-Build	Alt #1	Alt #2	No-Build	Alt #1	Alt #2	No-Build	Alt #1	Alt #2
Fastbaund	Left	E	D	А	0.75	0.43	0.36	55.4	40.0	9.1
Eastbound	Right	D	В	С	0.45	0.51	0.65	44.4	19.0	16.0
No which accord	Left	D	D	А	0.81	0.55	0.31	54.2	40.4	6.4
Northbound	Thru	А	В	В	0.45	0.51	0.58	6.4	10.5	10.8
Cauthhauad	Thru	F	С	В	>1.0	0.68	0.55	126.2	27.5	11.1
Southbound	Right	n/a	А	А	n/a	0.27	0.44	n/a	8.8	8.9
Inters	ection	E	С	В	>1.0	0.64	n/a	119.1	21.7	10.8

NEXT STEPS

Please review the traffic operations analysis information presented in this memorandum that will become part of the intersection control evaluation and let us know what questions or comments you may have. We would be pleased to further discuss the study findings and the two improvement alternatives as appropriate.

If you have questions as you review this material, please contact us at 503-535-7431.

APPENDIX

Appendix A: Quality Counts Traffic Counts

Appendix B: Clark County Existing Signal Timing

Appendix C: Existing 2019 Weekday AM and PM Synchro Analysis worksheets

Appendix D: 2015 and 2040 Southwest Regional Transportation Council Base Models

Appendix E: NCHRP 255 Analysis Worksheets

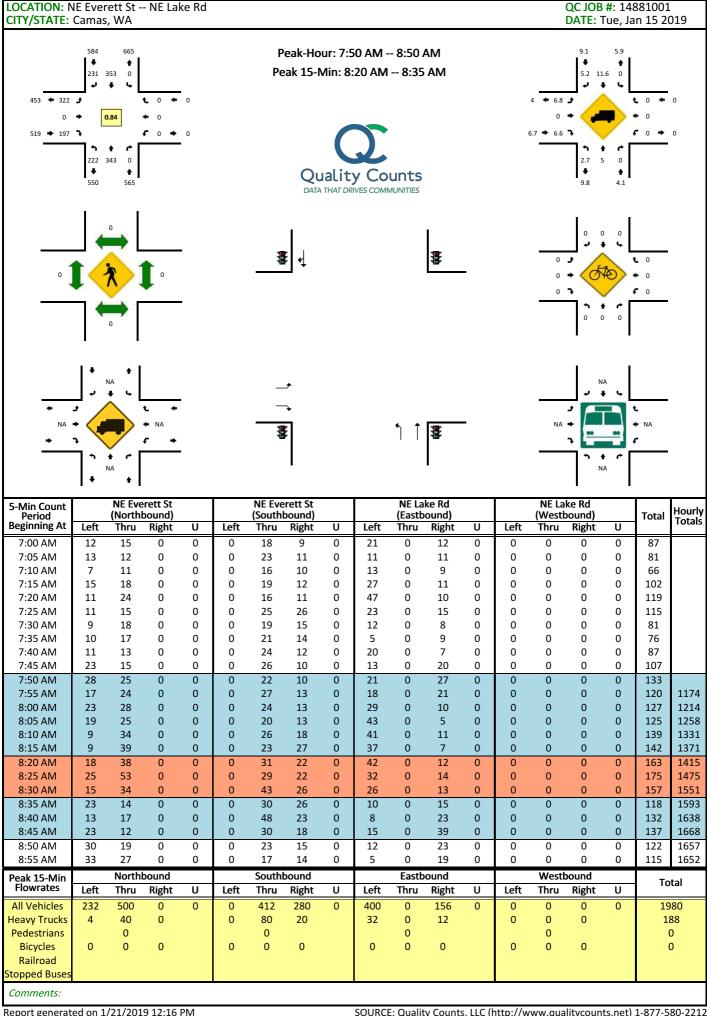
Appendix F: 2040 "No Build" Weekday AM and PM Synchro Worksheets and Queue Worksheets

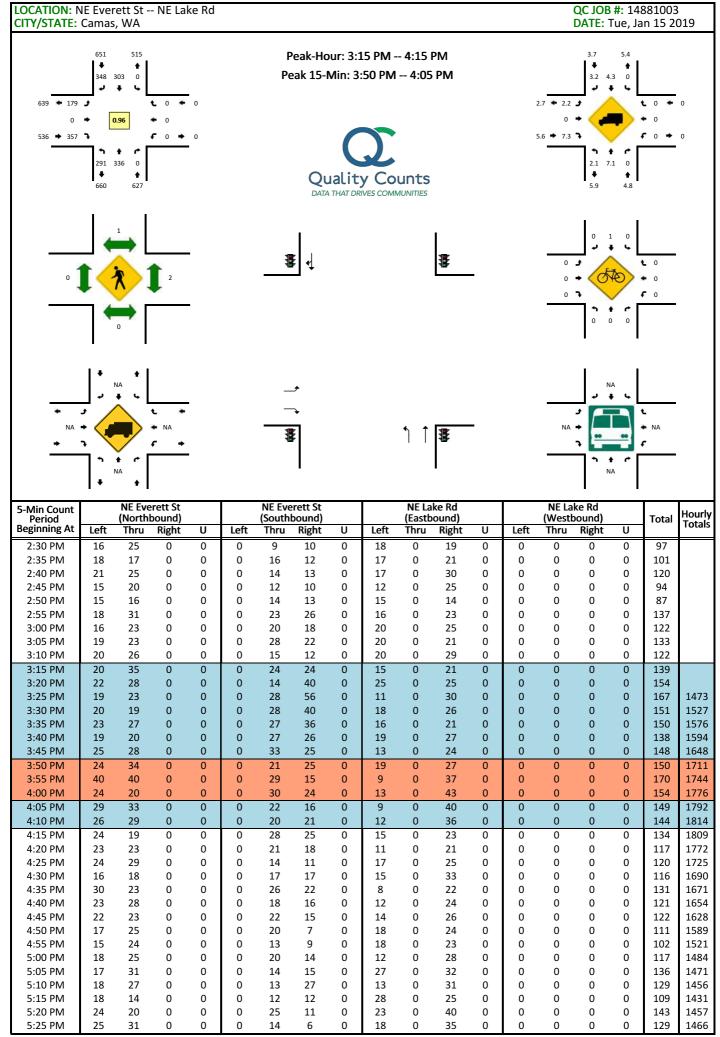
Appendix G: 2040 Improved Signalized Intersection Weekday AM and PM Synchro Worksheets and

Queue Worksheets

Appendix H: 2040 Multilane Roundabout Weekday AM and PM HCS7 Worksheets







5-Min Count Period			erett St bound)				erett St bound)			NE La (Eastb	ke Rd ound)				ke Rd oound)		Total	Hourly Totals
Beginning At	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U		iotais
5:30 PM	16	27	0	0	0	18	15	0	11	0	22	0	0	0	0	0	109	1459
5:35 PM	17	19	0	0	0	14	9	0	21	0	26	0	0	0	0	0	106	1434
5:40 PM	14	26	0	0	0	13	7	0	15	0	21	0	0	0	0	0	96	1409
5:45 PM	20	22	0	0	0	8	16	0	21	0	28	0	0	0	0	0	115	1402
5:50 PM	12	25	0	0	0	25	14	0	16	0	22	0	0	0	0	0	114	1405
5:55 PM	12	15	0	0	0	15	12	0	20	0	24	0	0	0	0	0	98	1401
6:00 PM	23	19	0	0	0	6	6	0	14	0	19	0	0	0	0	0	87	1371
6:05 PM	12	24	0	0	0	19	12	0	14	0	19	0	0	0	0	0	100	1335
6:10 PM	18	21	0	0	0	11	15	0	13	0	22	0	0	0	0	0	100	1306
6:15 PM	12	16	0	0	0	11	9	0	11	0	17	0	0	0	0	0	76	1273
6:20 PM	9	24	0	0	0	15	17	0	18	0	9	0	0	0	0	0	92	1222
6:25 PM	16	22	0	0	0	14	9	0	17	0	14	0	0	0	0	0	92	1185
Peak 15-Min		North	bound			South	bound			Eastb	ound			Westl	oound		То	tal
Flowrates	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	10	ıldı
All Vehicles	352	376	0	0	0	320	256	0	164	0	428	0	0	0	0	0	18	396
Heavy Trucks	16	56	0		0	16	0		0	0	48		0	0	0		1	36
Pedestrians		0				0				0				0			(0
Bicycles	0	0	0		0	0	0		0	0	0		0	0	0		(0
Railroad																		
Stopped Buses																		
Comments:																		

Report generated on 1/21/2019 12:16 PM

SOURCE: Quality Counts, LLC (http://www.qualitycounts.net) 1-877-580-2212



Controller Database Timing Sheet



Station: 4051 - WSDOT - SR500 & Lake rd.(Standard File)

Type: NTCIP 76.x 2070 Ethernet

Firmware:

Created By: HagenR

Modified By:

Reviewed By:

	100	NB		EBR	NBL	SIZ	EBL	PED	17							
Phase Times and Op	tions(1.1			21194	2100111-0				The said	i santi	- Marin			ALC: UNI		Bulli
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Min Green		5		4	4	5	4	4				7				
Gap Ext		4.5		3.5	3.5	4.5	3.5	3.5								
Max1		50		40	-2528	-5055	40	20								
Max2		25		18	12	25	18	20								
Yellow Cir	3	4	3	3	3	4	3	3	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
Red Clr		1		1.	2	1	1	1	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
Walk						7		7								
Ped Clearance						25		17								
Red Revert		2		2	2	2	2	2								
Added Initial		2				2										
Max Initial		20		4	4	20	4									
Time Before Reduce		20				25		8								
Cars Before Reduce	181															
Time To Reduce		10				10										
Reduce By																
Min Gap		3.5		3.5	3.5	3.5	3.5									
Dynamic Max Limit										+1						
Dynamic Max Step																
Startup	RED	RED	RED	RED	RED	RED	RED	RED	RED	RED	RED	RED	RED	RED	RED	RED
Enable	*	X		X	X	X	X	X								
Auto Flash Entry				X		91	X									- 40
Auto Flash Exit	14	X				X										
Non-Actuated 1							•							5.	•	
Non-Actuated 2							•									
Lock Calls						19		¥								
Min Recall		X			547	X	140		1.0							

Phase Times and Op				A COLUMN	100	3.46)	10/4	Marie and the second	1880	The same of the sa	200.040	1 100000		200.00		1 12000
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Max Recall						5.0				181				7/62		76
Ped Recall																
Soft Recall									F 1							
Dual Entry				X	180		X									73.80
Sim Gap Enable					[#3]					5 x	*					
Guarantd Passage								-	F	52	*			141		36.
Rest In Walk																
Cond Service						5.2				10.9						
Added Init Calc													*			138.3
Ring -	1	1	1	1	2	2	2	2								
Concur 1	5	5	7	7	1	1	3	3								
Concur 2	6	6	8	8	2	2	4	4								
Concur 3										Sk-						
Concur 4																
Concur 5																
Concur 6																
Concur 7																
Concur 8																1

Unit Parms(1.2.1)					
	STANDING STANDS		Value		
StartUp Flash	820		7		
Auto Ped Clear			X		
Red Revert		*	2		
Local Flash Start			X		
Allow < 3 sec Yel					
Allow Skip Yel					
MCE Timeout					
Enable Run			X		III.
Start Red Time			8		
Phase Mode	Ti.		STD8		
Startup Calls					
Diamond Mode			4PH		
Stop Time Over Preempt		(*)	٠		
Free Ring Sequence			5		
Clearance Decide		-			
Min Ped Clear Time					
RingAlgo					
Ring Sequences(1.2.4)			RE TEL		
	1	2	the same	3	4
Ring P1	1	5			8
Ring P2	2	6			
Ring P3	3	8			
Ring P4	4	7		*	
Ring P5					
Ring P6					
Ring P7					
Ring P8				1	

Appendix C – Existing Weekday AM and PM Synchro Analysis Worksheets

	۶	•	•	†	+	✓		
Movement	EBL	EBR	NBL	NBT	SBT	SBR		
Lane Configurations	ሻ	7	ሻ		ĵ.			
Traffic Volume (vph)	322	197	222	343	353	231		
Future Volume (vph)	322	197	222	343	353	231		
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900		
Total Lost time (s)	4.0	4.0	5.0	5.0	5.0			
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00			
Frt	1.00	0.85	1.00	1.00	0.95			
Flt Protected	0.95	1.00	0.95	1.00	1.00			
Satd. Flow (prot)	1687	1509	1752	1810	1647			
Flt Permitted	0.95	1.00	0.95	1.00	1.00			
Satd. Flow (perm)	1687	1509	1752	1810	1647			
Peak-hour factor, PHF	0.84	0.84	0.84	0.84	0.84	0.84		
Adj. Flow (vph)	383	235	264	408	420	275		
RTOR Reduction (vph)	0	170	0	0	13	0		
Lane Group Flow (vph)	383	65	264	408	682	0		
Heavy Vehicles (%)	7%	7%	3%	5%	12%	5%		
Turn Type	Prot	Prot	Prot	NA	NA			
Protected Phases	7	4	5	2	6			
Permitted Phases								
Actuated Green, G (s)	35.9	35.9	25.2	85.5	55.3			
Effective Green, g (s)	35.9	35.9	25.2	85.5	55.3			
Actuated g/C Ratio	0.28	0.28	0.19	0.66	0.42			
Clearance Time (s)	4.0	4.0	5.0	5.0	5.0			
Vehicle Extension (s)	3.5	3.0	3.5	4.5	4.5			
Lane Grp Cap (vph)	464	415	338	1186	698			
v/s Ratio Prot	c0.23	0.04	c0.15	0.23	c0.41			
v/s Ratio Perm								
v/c Ratio	0.83	0.16	0.78	0.34	0.98			
Uniform Delay, d1	44.3	35.8	50.0	10.0	36.9			
Progression Factor	1.00	1.00	1.00	1.00	1.00			
Incremental Delay, d2	11.7	0.2	11.4	0.3	28.4			
Delay (s)	56.0	36.0	61.4	10.3	65.3			
Level of Service	Е	D	Е	В	Е			
Approach Delay (s)	48.4			30.4	65.3			
Approach LOS	D			С	Е			
Intersection Summary								
HCM 2000 Control Delay	48.2	Н	CM 2000	Level of Service		D		
	HCM 2000 Volume to Capacity ratio 0.92							
Actuated Cycle Length (s)			130.4	S	um of lost	time (s)	1	8.0
Intersection Capacity Utiliza	ation		74.5%	IC	CU Level c	of Service		D
Analysis Period (min)			15					
c Critical Lane Group								

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Lane Group	EBL	EBR	NBL	NBT	SBT
Lane Group Flow (vph)	383	235	264	408	695
v/c Ratio	0.83	0.40	0.78	0.34	0.98
Control Delay	60.5	6.5	67.1	11.5	66.1
Queue Delay	0.0	0.0	0.0	0.0	0.0
Total Delay	60.5	6.5	67.1	11.5	66.1
Queue Length 50th (ft)	313	0	220	154	~639
Queue Length 95th (ft)	400	47	299	198	#790
Internal Link Dist (ft)	381			511	417
Turn Bay Length (ft)	70		175		
Base Capacity (vph)	519	862	377	1226	710
Starvation Cap Reductn	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0
Reduced v/c Ratio	0.74	0.27	0.70	0.33	0.98

Intersection Summary

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Volume exceeds capacity, queue is theoretically infinite.
 Queue shown is maximum after two cycles.

^{# 95}th percentile volume exceeds capacity, queue may be longer.

Queue shown is maximum after two cycles.

Movement
Lane Configurations
Traffic Volume (vph)
Future Volume (vph) 179 357 291 336 303 348 Ideal Flow (vphpl) 1900 1900 1900 1900 1900 1900 190
Ideal Flow (vphpl)
Total Lost time (s)
Lane Util. Factor 1.00 1.00 1.00 1.00 1.00 1.00 Frpb, ped/bikes 1.00 1.00 1.00 1.00 1.00 1.00 1.00 Flpb, ped/bikes 1.00 1.00 1.00 1.00 1.00 1.00 Flpb, ped/bikes 1.00 1.00 1.00 1.00 1.00 I.00 I.00 I.00
Fipb, ped/bikes 1.00 1.00 1.00 1.00 0.93 Frt 1.00 0.85 1.00 1.00 0.93 Fit Protected 0.95 1.00 0.95 1.00 1.00 Satd. Flow (prot) 1770 1509 1770 1776 1704 Fit Permitted 0.95 1.00 0.95 1.00 1.00 Satd. Flow (perm) 1770 1509 1770 1776 1704 Fit Permitted 0.95 1.00 0.95 1.00 1.00 Satd. Flow (perm) 1770 1509 1770 1776 1704 Peak-hour factor, PHF 0.96 0.96 0.96 0.96 0.96 0.96 Adj. Flow (vph) 186 372 303 350 316 362 RTOR Reduction (vph) 0 315 0 0 20 0 Lane Group Flow (vph) 186 57 303 350 659 0 Confl. Peds. (#/hr) 2 1 Heavy Vehicles (%) 2% 7% 2% 7% 4% 3% Turn Type Prot Prot Prot NA NA Protected Phases 7 4 5 2 6 Permitted Phases Actuated Green, G (s) 17.6 17.6 27.6 87.7 55.1 Effective Green, g (s) 17.6 17.6 27.6 87.7 55.1 Actuated g/C Ratio 0.15 0.15 0.24 0.77 0.48 Clearance Time (s) 4.0 4.0 5.0 5.0 5.0 Vehicle Extension (s) 3.5 3.0 3.5 4.5 4.5 Lane Grp Cap (vph) 272 232 427 1362 821 v/s Ratio Port v/c Ratio 0.68 0.25 0.71 0.26 0.80
Frit 1.00 0.85 1.00 1.00 0.93 Fit Protected 0.95 1.00 0.95 1.00 1.00 Satd. Flow (prot) 1770 1509 1770 1776 1704 Fit Permitted 0.95 1.00 0.95 1.00 1.00 Satd. Flow (perm) 1770 1509 1770 1776 1704 Fit Permitted 0.95 1.00 0.95 1.00 1.00 Satd. Flow (perm) 1770 1509 1770 1776 1704 Peak-hour factor, PHF 0.96 0.96 0.96 0.96 0.96 0.96 Adj. Flow (vph) 186 372 303 350 316 362 RTOR Reduction (vph) 0 315 0 0 20 0 Lane Group Flow (vph) 186 57 303 350 659 0 Confl. Peds. (#/hr) 2 2 1 Heavy Vehicles (%) 2% 7% 2% 7% 4% 3% Turn Type Prot Prot Prot NA NA Protected Phases 7 4 5 2 6 Permitted Phases Actuated Green, G (s) 17.6 17.6 27.6 87.7 55.1 Effective Green, g (s) 17.6 17.6 27.6 87.7 55.1 Actuated Green, G (s) 1.76 17.6 27.6 87.7 55.1 Actuated Green, G (s) 4.0 4.0 5.0 5.0 5.0 Vehicle Extension (s) 3.5 3.0 3.5 4.5 4.5 Lane Grp Cap (vph) 272 232 427 1362 821 v/s Ratio Prot v/c Ratio 0.68 0.25 0.71 0.26 0.80
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Fit Permitted 0.95 1.00 0.95 1.00 1.00 Satd. Flow (perm) 1770 1509 1770 1776 1704 Peak-hour factor, PHF 0.96 0.96 0.96 0.96 0.96 0.96 Adj. Flow (vph) 186 372 303 350 316 362 RTOR Reduction (vph) 0 315 0 0 20 0 Lane Group Flow (vph) 186 57 303 350 659 0 Confl. Peds. (#/hr) 2 2 1 Heavy Vehicles (%) 2% 7% 2% 7% 4% 3% Turn Type Prot Prot Prot NA NA Protected Phases 7 4 5 2 6 Permitted Phases Actuated Green, G (s) 17.6 17.6 27.6 87.7 55.1 Effective Green, g (s) 17.6 17.6 27.6 87.7 55.1 Actuated g/C Ratio 0.15 0.15 0.24 0.77 0.48 Clearance Time (s) 4.0 4.0 5.0 5.0 5.0 Vehicle Extension (s) 3.5 3.0 3.5 4.5 4.5 Lane Grp Cap (vph) 272 232 427 1362 821 v/s Ratio Prot v/c Ratio 0.68 0.25 0.71 0.26 0.80
Satd. Flow (perm) 1770 1509 1770 1776 1704 Peak-hour factor, PHF 0.96 0.96 0.96 0.96 0.96 0.96 Adj. Flow (vph) 186 372 303 350 316 362 RTOR Reduction (vph) 0 315 0 0 20 0 Lane Group Flow (vph) 186 57 303 350 659 0 Confl. Peds. (#/hr) 2 2 1 4 4 3% Confl. Peds. (#/hr) 2 2 1 4 3% 4 3% Turn Type Prot Prot Prot NA NA NA NA NA Protected Phases 7 4 5 2 6 Permitted Phases Actuated Green, G (s) 17.6 17.6 27.6 87.7 55.1 Effective Green, g (s) 17.6 17.6 27.6 87.7 55.1 Actuated Green, G (s) 4.0 4.0 5.0 5.0
Peak-hour factor, PHF 0.96 0.96 0.96 0.96 0.96 0.96 Adj. Flow (vph) 186 372 303 350 316 362 RTOR Reduction (vph) 0 315 0 0 20 0 Lane Group Flow (vph) 186 57 303 350 659 0 Confl. Peds. (#/hr) 2 2 1 4% 3% Torn Type Prot Prot Prot NA NA Permitted Phases 7 4 5 2 6 Permitted Phases 7 17.6 27.6 87.7 55.1 Actuated Green, G (s) 17.6 17.6 27.6
Adj. Flow (vph) 186 372 303 350 316 362 RTOR Reduction (vph) 0 315 0 0 20 0 Lane Group Flow (vph) 186 57 303 350 659 0 Confl. Peds. (#/hr) 2 2 1 Heavy Vehicles (%) 2% 7% 2% 7% 4% 3% Turn Type Prot Prot Prot NA NA Protected Phases 7 4 5 2 6 Permitted Phases Actuated Green, G (s) 17.6 17.6 27.6 87.7 55.1 Effective Green, g (s) 17.6 17.6 27.6 87.7 55.1 Actuated g/C Ratio 0.15 0.15 0.24 0.77 0.48 Clearance Time (s) 4.0 4.0 5.0 5.0 5.0 Vehicle Extension (s) 3.5 3.0 3.5 4.5 4.5 Lane Grp Cap (vph) 272 232 427 1362 821 v/s Ratio Prot 0.68 0.25 0.71 0.26 0.80
RTOR Reduction (vph) 0 315 0 0 20 0 Lane Group Flow (vph) 186 57 303 350 659 0 Confl. Peds. (#/hr) 2 2 1 Heavy Vehicles (%) 2% 7% 2% 7% 4% 3% Turn Type Prot Prot NA NA Protected Phases 7 4 5 2 6 Permitted Phases Actuated Green, G (s) 17.6 17.6 27.6 87.7 55.1 Effective Green, g (s) 17.6 17.6 27.6 87.7 55.1 Actuated g/C Ratio 0.15 0.15 0.24 0.77 0.48 Clearance Time (s) 4.0 4.0 5.0 5.0 5.0 Vehicle Extension (s) 3.5 3.0 3.5 4.5 4.5 Lane Grp Cap (vph) 272 232 427 1362 821 v/s Ratio Prot v/c Ratio 0.68 0.25 0.71 0.26 0.80
Lane Group Flow (vph) 186 57 303 350 659 0 Confl. Peds. (#/hr) 2 2 1 Heavy Vehicles (%) 2% 7% 2% 7% 4% 3% Turn Type Prot Prot Prot NA NA Permitted Phases 7 4 5 2 6 Permitted Phases Actuated Green, G (s) 17.6 17.6 27.6 87.7 55.1 Effective Green, g (s) 17.6 17.6 27.6 87.7 55.1 Actuated g/C Ratio 0.15 0.15 0.24 0.77 0.48 Clearance Time (s) 4.0 4.0 5.0 5.0 5.0 Vehicle Extension (s) 3.5 3.0 3.5 4.5 4.5 Lane Grp Cap (vph) 272 232 427 1362 821 v/s Ratio Perm V/c Ratio 0.68 0.25 0.71 0.26 0.80
Confl. Peds. (#/hr) 2 2 1 Heavy Vehicles (%) 2% 7% 2% 7% 4% 3% Turn Type Prot Prot Prot NA NA Protected Phases 7 4 5 2 6 Permitted Phases Actuated Green, G (s) 17.6 17.6 27.6 87.7 55.1 Effective Green, g (s) 17.6 17.6 27.6 87.7 55.1 Actuated g/C Ratio 0.15 0.15 0.24 0.77 0.48 Clearance Time (s) 4.0 4.0 5.0 5.0 5.0 Vehicle Extension (s) 3.5 3.0 3.5 4.5 4.5 Lane Grp Cap (vph) 272 232 427 1362 821 v/s Ratio Prot c0.11 0.04 c0.17 0.20 c0.39 v/s Ratio Perm v/c Ratio 0.68 0.25 0.71 0.26 0.80
Heavy Vehicles (%) 2% 7% 2% 7% 4% 3% Turn Type Prot Prot Prot NA NA Protected Phases 7 4 5 2 6 Permitted Phases Actuated Green, G (s) 17.6 17.6 27.6 87.7 55.1 Effective Green, g (s) 17.6 17.6 27.6 87.7 55.1 Actuated g/C Ratio 0.15 0.15 0.24 0.77 0.48 Clearance Time (s) 4.0 4.0 5.0 5.0 5.0 Vehicle Extension (s) 3.5 3.0 3.5 4.5 4.5 Lane Grp Cap (vph) 272 232 427 1362 821 v/s Ratio Perm v/s Ratio Perm 0.68 0.25 0.71 0.26 0.80
Turn Type
Protected Phases 7 4 5 2 6 Permitted Phases Actuated Green, G (s) 17.6 17.6 27.6 87.7 55.1 Effective Green, g (s) 17.6 17.6 27.6 87.7 55.1 Actuated g/C Ratio 0.15 0.15 0.24 0.77 0.48 Clearance Time (s) 4.0 4.0 5.0 5.0 5.0 Vehicle Extension (s) 3.5 3.0 3.5 4.5 4.5 Lane Grp Cap (vph) 272 232 427 1362 821 v/s Ratio Prot c0.11 0.04 c0.17 0.20 c0.39 v/s Ratio Perm v/c Ratio 0.68 0.25 0.71 0.26 0.80
Permitted Phases Actuated Green, G (s) 17.6 17.6 27.6 87.7 55.1 Effective Green, g (s) 17.6 17.6 27.6 87.7 55.1 Actuated g/C Ratio 0.15 0.15 0.24 0.77 0.48 Clearance Time (s) 4.0 4.0 5.0 5.0 5.0 Vehicle Extension (s) 3.5 3.0 3.5 4.5 4.5 Lane Grp Cap (vph) 272 232 427 1362 821 v/s Ratio Prot c0.11 0.04 c0.17 0.20 c0.39 v/s Ratio Perm v/c Ratio 0.68 0.25 0.71 0.26 0.80
Actuated Green, G (s) 17.6 17.6 27.6 87.7 55.1 Effective Green, g (s) 17.6 17.6 27.6 87.7 55.1 Actuated g/C Ratio 0.15 0.15 0.24 0.77 0.48 Clearance Time (s) 4.0 4.0 5.0 5.0 5.0 Vehicle Extension (s) 3.5 3.0 3.5 4.5 4.5 Lane Grp Cap (vph) 272 232 427 1362 821 v/s Ratio Prot c0.11 0.04 c0.17 0.20 c0.39 v/s Ratio Perm v/c Ratio 0.68 0.25 0.71 0.26 0.80
Effective Green, g (s) 17.6 17.6 27.6 87.7 55.1 Actuated g/C Ratio 0.15 0.15 0.24 0.77 0.48 Clearance Time (s) 4.0 4.0 5.0 5.0 5.0 Vehicle Extension (s) 3.5 3.0 3.5 4.5 4.5 Lane Grp Cap (vph) 272 232 427 1362 821 v/s Ratio Prot c0.11 0.04 c0.17 0.20 c0.39 v/s Ratio Perm v/c Ratio 0.68 0.25 0.71 0.26 0.80
Actuated g/C Ratio 0.15 0.15 0.24 0.77 0.48 Clearance Time (s) 4.0 4.0 5.0 5.0 5.0 Vehicle Extension (s) 3.5 3.0 3.5 4.5 4.5 Lane Grp Cap (vph) 272 232 427 1362 821 v/s Ratio Prot c0.11 0.04 c0.17 0.20 c0.39 v/s Ratio Perm v/c Ratio 0.68 0.25 0.71 0.26 0.80
Clearance Time (s) 4.0 4.0 5.0 5.0 5.0 Vehicle Extension (s) 3.5 3.0 3.5 4.5 4.5 Lane Grp Cap (vph) 272 232 427 1362 821 v/s Ratio Prot c0.11 0.04 c0.17 0.20 c0.39 v/s Ratio Perm v/c Ratio 0.68 0.25 0.71 0.26 0.80
Vehicle Extension (s) 3.5 3.0 3.5 4.5 4.5 Lane Grp Cap (vph) 272 232 427 1362 821 v/s Ratio Prot c0.11 0.04 c0.17 0.20 c0.39 v/s Ratio Perm v/c Ratio 0.68 0.25 0.71 0.26 0.80
Lane Grp Cap (vph) 272 232 427 1362 821 v/s Ratio Prot c0.11 0.04 c0.17 0.20 c0.39 v/s Ratio Perm v/c Ratio 0.68 0.25 0.71 0.26 0.80
v/s Ratio Prot c0.11 0.04 c0.17 0.20 c0.39 v/s Ratio Perm v/c Ratio 0.68 0.25 0.71 0.26 0.80
v/s Ratio Perm v/c Ratio 0.68 0.25 0.71 0.26 0.80
v/c Ratio 0.68 0.25 0.71 0.26 0.80
Uniform Delay, d1 45.7 42.5 39.7 3.9 25.0
Progression Factor 1.00 1.00 1.00 1.00
Incremental Delay, d2 7.2 0.6 5.5 0.2 6.3
Delay (s) 52.9 43.1 45.2 4.0 31.3
Level of Service D D A C
Approach Delay (s) 46.4 23.1 31.3
Approach LOS D C C
Intersection Summary
HCM 2000 Control Delay 32.9 HCM 2000 Level of Service C
HCM 2000 Volume to Capacity ratio 0.79
Actuated Cycle Length (s) 114.3 Sum of lost time (s) 18.0
Intersection Capacity Utilization 75.0% ICU Level of Service D
Analysis Period (min) 15

c Critical Lane Group

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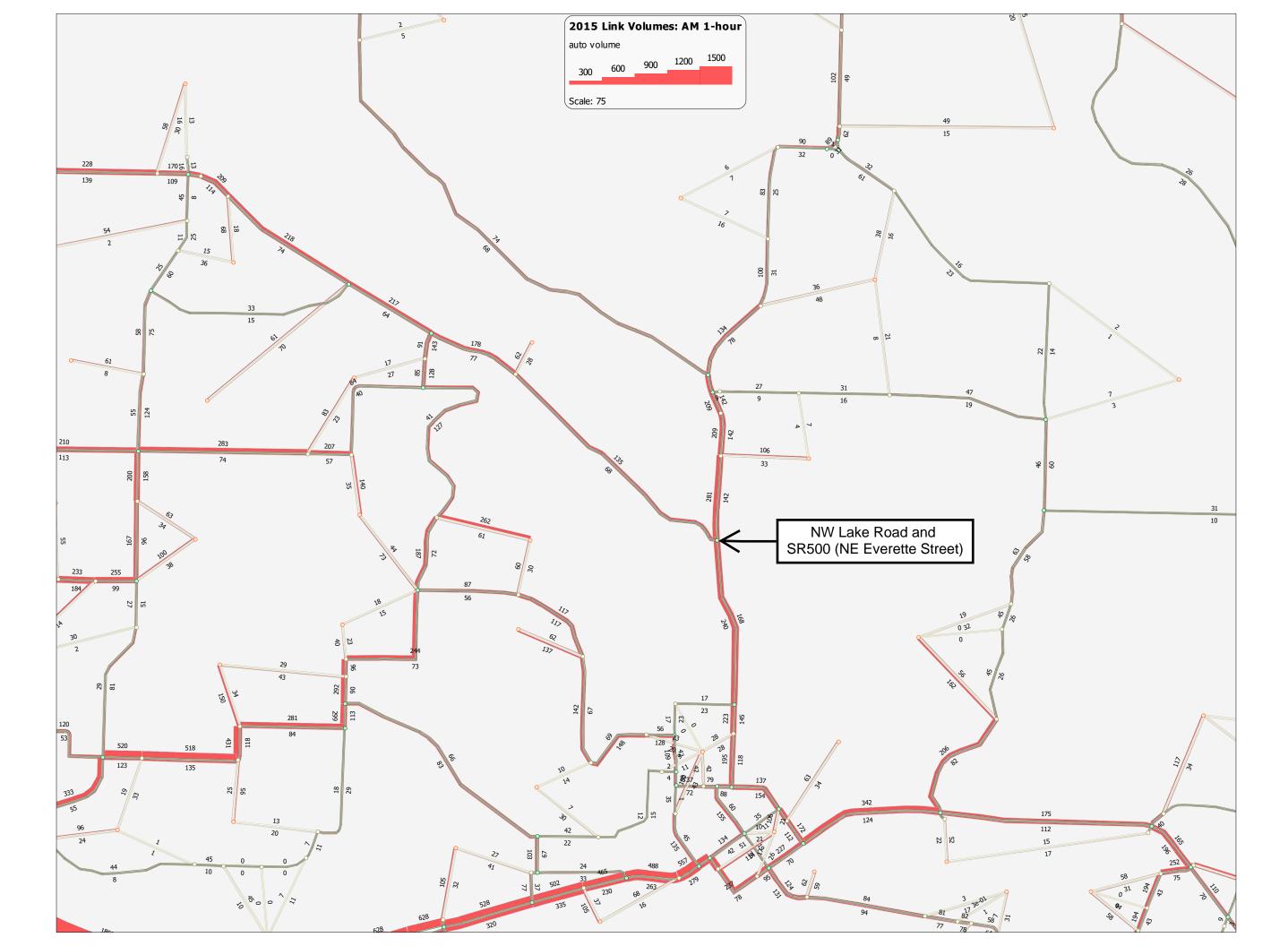
	•	\rightarrow	1	†	ţ
Lane Group	EBL	EBR	NBL	NBT	SBT
Lane Group Flow (vph)	186	372	303	350	679
v/c Ratio	0.68	0.68	0.71	0.26	0.81
Control Delay	58.8	11.2	50.8	4.8	33.5
Queue Delay	0.0	0.0	0.0	0.0	0.0
Total Delay	58.8	11.2	50.8	4.8	33.5
Queue Length 50th (ft)	131	0	205	62	394
Queue Length 95th (ft)	207	89	#328	118	#670
Internal Link Dist (ft)	381			511	417
Turn Bay Length (ft)	70		175		
Base Capacity (vph)	620	1009	434	1369	841
Starvation Cap Reductn	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0
Reduced v/c Ratio	0.30	0.37	0.70	0.26	0.81
Intersection Summary					

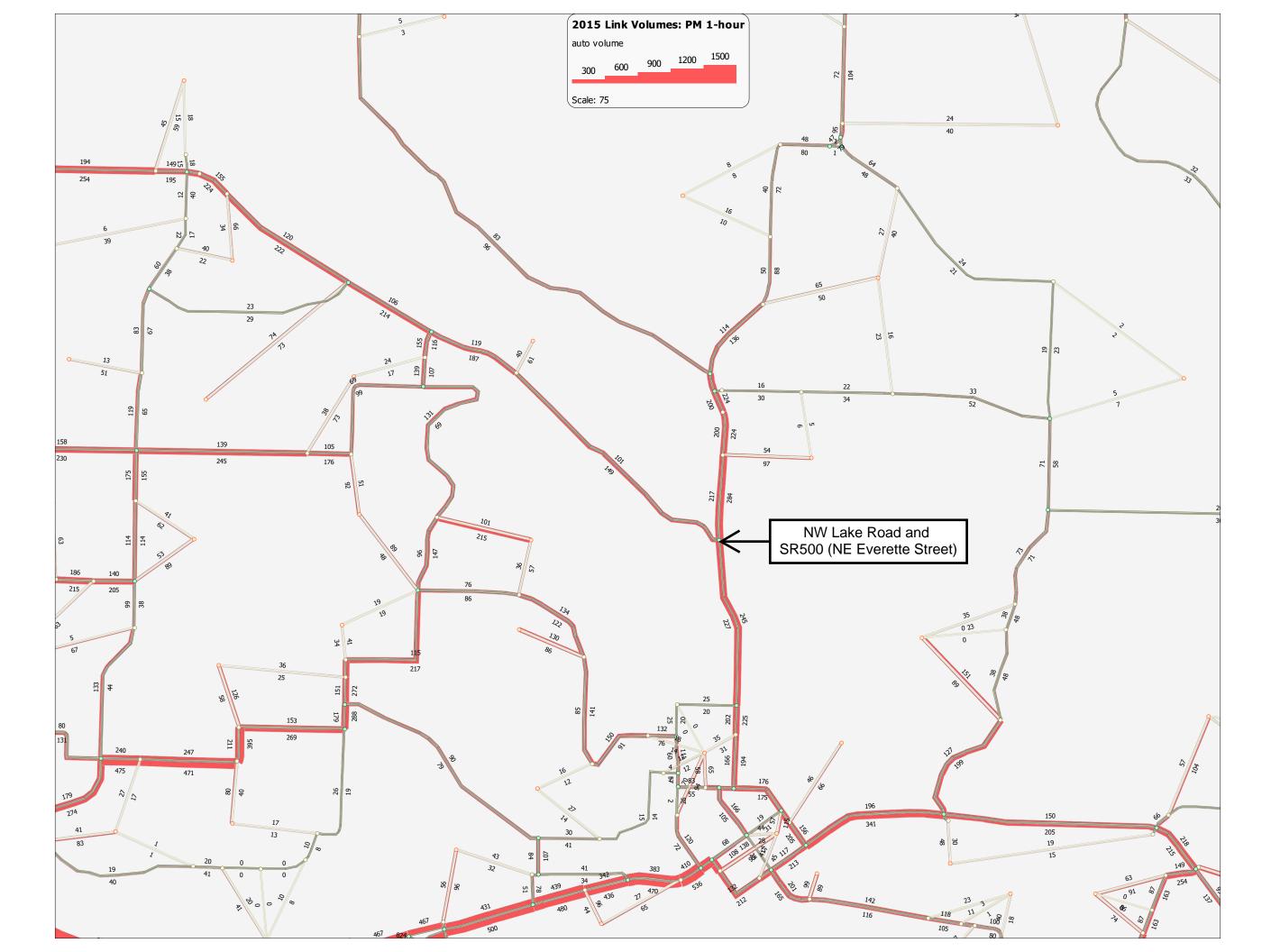
^{# 95}th percentile volume exceeds capacity, queue may be longer.

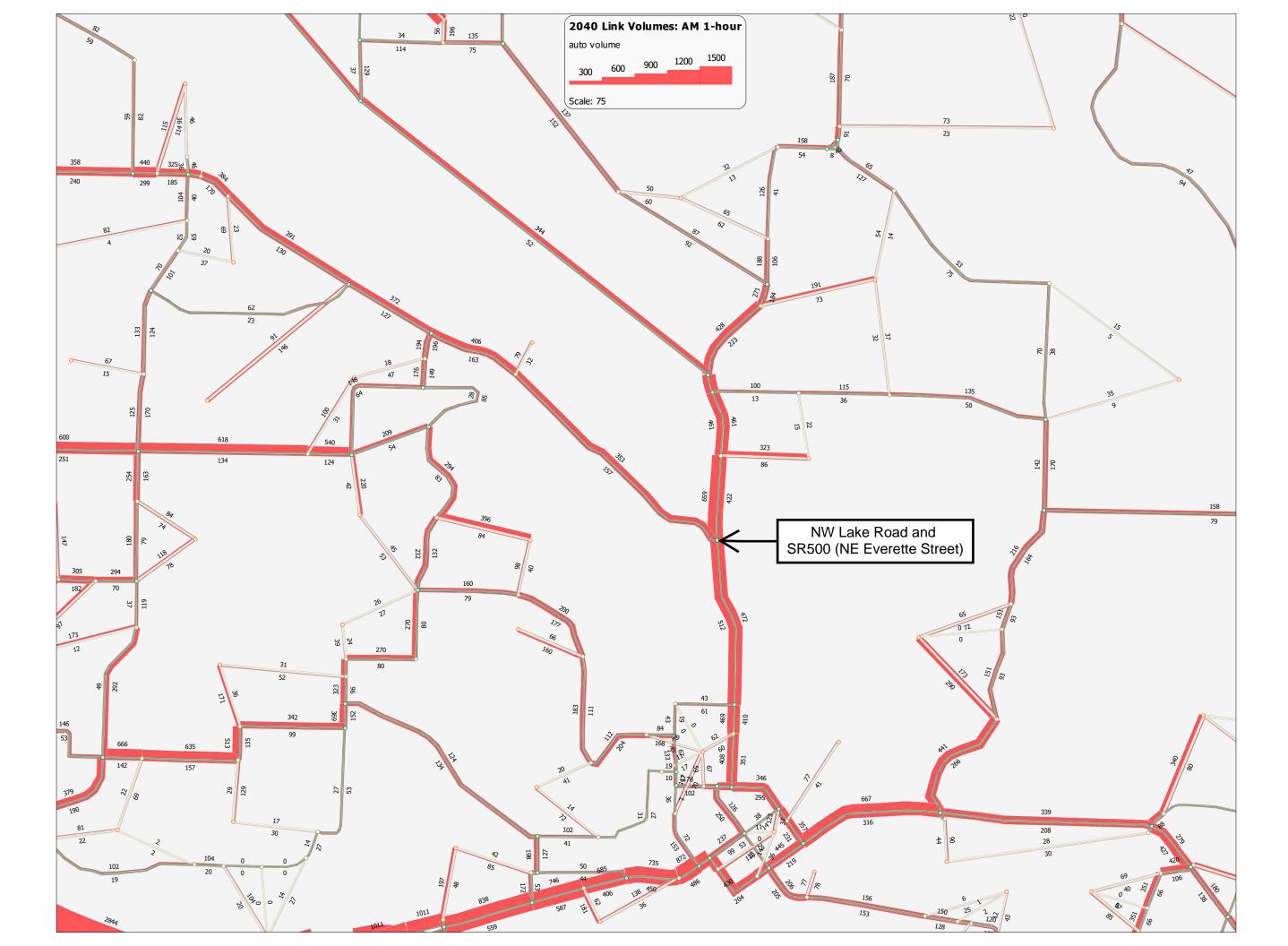
Queue shown is maximum after two cycles.

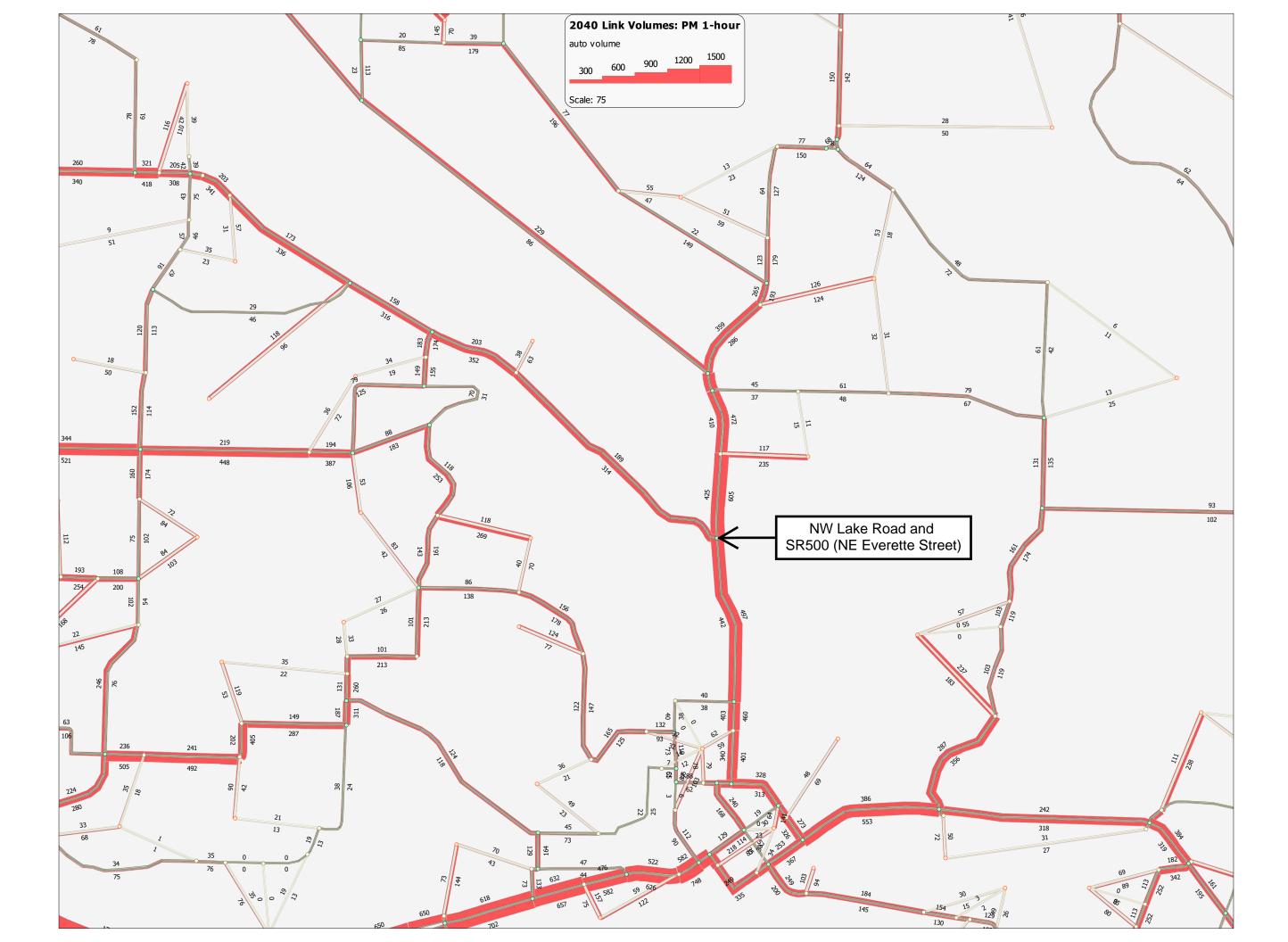
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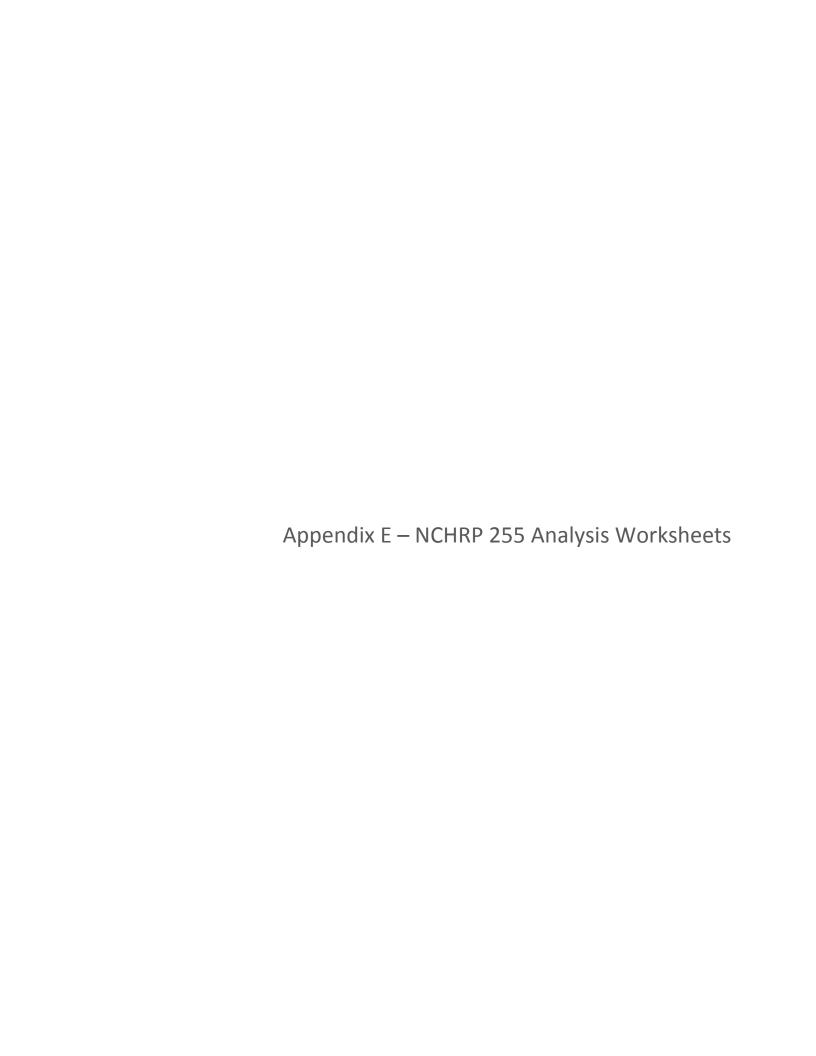
Appendix D – 2015 and 2040 Southwest Regional Transportation Council Base Models











Project #: Project Name: City, State: 23377

Lake Rd and Everett St Roundabout

Camas, Washington
Year 2019 Existing Traffic Conditions, Weekday AM Peak Hour Scenario:

Date:

1/30/2019
H:\23\23377 - Lake Rd and Everett St Roundabout\Synchro
AR Filename/Path

Prepared By:

Existing Count Year: 2019
Base Model Year 2015
Future Model Year 2040

1																
						Existing Link	Base Model	Future Model		Adjusted Base Model	Base Model: Existing	Ratio Method (Existing *	Difference Method (Ex. +	Average of Ratio & Difference	Selected 255	Growth Factor (From Ex.
Intersection Name	Leg	Movement	Left	Thru	Right	Volume	Link Volume	Link volume	Growth Factor	Volumes	Volume	Future/Base)	Future - Base)	Method	Volume	Count Year)
	Courth	In	222	343	1	566	168	472	0.0724	217	0.383	1233	821	1027	1027	181%
<u> </u>	South	Out	1	353	197	551	240	512	0.0453	284	0.515	995	779	887	887	161%
를 SE	West	In	322	1	197	520	68	157	0.0524	82	0.158	993	595	794	595	114%
ret ke	wesi	Out	222	1	231	454	135	353	0.0646	170	0.374	943	637	790	790	174%
NE Everett : NW Lake F	North	In	1	353	231	585	281	659	0.0538	341	0.584	1129	903	1016	1016	174%
₩ ≥	NOITH	Out	322	343	1	666	142	422	0.0789	187	0.280	1505	901	1203	901	135%
₹ [∠]	East	In	1	1	1	3	3	3	0.0000	3	1	3	3	3	3	100%
	⊏ası	Out	1	1	1	3	3	3	0.0000	3	1	3	3	3	3	100%
						3348	1040	2581	0	1287	0	6717	4642	5679	5679	170%

Removed Link	Check
rest	Summary
Okay	Okay
	Test Okay Okay Okay Okay Okay Okay Okay Okay

1					Final Volumes	S			
								Initial 255	
						Base Model	Future Model	Future	Adjusted Link
Int. Name	Approach	Movement	Left	Thru	Right	Link Volume	Link Volume	Volume	Volume
	South	ln	426	577	0	168	472	1027	1004
<u> </u>	South	Out	0	629	257	240	512	887	Adjusted Link Volume
장윤	West	ln	324	0	257	68	157	595	581
verett Lake I	West	Out	426	0	363	135	353	595 790 1016	790
La Ke	North	ln	0	629	363	281	659	1016	993
N N	NOILII	Out	324	577	1	142	422	790 1016	901
₽ Z	East	In	0	0	0	0	0	0	0
	⊏ası	Out	0	0	0	0	0	0	0
						1040	2581	5222	5163

Volume
Override
1027
887
595
790
1016
901
0
0
5222

Project #: Project Name: City, State: Scenario: Date:

23377
Lake Rd and Everett St Roundabout
Camas, Washington
Year 2019 Existing Traffic Conditions, Weekday PM Peak Hour
1/11/2019

Filename/Path H:\23\23377 - Lake Rd and Everett St Roundabout\Synchro

Prepared By: AR

Existing Count Year: 2019
Base Model Year 2015

Future Model Year	2040
1	

Intersection Name	Leg	Movement	Left	Thru	Right	Existing Link Volume	Base Model Link Volume	Future Model Link volume	Base to Future A Model Growth Factor	Adjusted Base Model Volumes	Base Model: Existing Volume	Ratio Method (Existing * Future/Base)	Difference Method (Ex. + Future - Base)	Average of Ratio & Difference Method	Selected 255 Volume	Growth Factor (From Ex. Count Year)
	South	ln	291	336	1	628	245	497	0.0411	285	0.454	1094	840	967	967	154%
<u> </u>	South	Out	1	303	357	661	227	442	0.0379	261	0.395	1118	842	980	980	148%
St. St.	West	ln	179	1	357	537	149	314	0.0443	180	0.335	937	671	804	804	150%
ke ret	west	Out	291	1	348	640	101	189	0.0349	115	0.180	1051	714	883	714	112%
NE Everett NW Lake F	North	In	1	303	348	652	217	425	0.0383	250	0.384	1107	827	967	967	148%
<u></u>	NOTH	Out	179	336	1	516	284	605	0.0452	335	0.650	931	786	858	858	166%
Z ²	Foot	In	1	1	1	3	3	3	0.0000	3	1	3	3	3	3	100%
	East	Out	1	1	1	3	3	3	0.0000	3	1	3	3	3	3	100%
						3640	1229	2478	0	1429	0	6313	4689	5501	5501	151%

tor			
		Removed Link	Check
r)	New Link Test	Test	Summary
	Okay	Okay	Okay

1					Final Volume	s			
Int. Name	Approach	Movement	Left	Thru	Right	Base Model Link Volume	Future Model Link Volume	Initial 255 Future Volume	Adjusted Lin
	Courth	In	313	587	0	245	497	967	901
_	South	Out	0	501	478	227	442	980 804	980
PS SS	\A/+	In	270	0	478	149	314	804	749
verett Lake F	West	Out	313	0	400	101	189	714	714
La		In	0	501	400	217	425	967	901
۾ ٰ ٰ	North	Out	270	587	0	284	605	714	858
필요		In	0	0	0	0	0	0	0
	East	Out	0	0	0	0	0	0	0
						1229	2478	5295	5110

Volume
Override
967
980
804
714
967
858
0
0
5295

Appendix F – 2040 "No Build" Weekday AM and PM Synchro Worksheets and Queue Worksheets

	•	•	•	†	+	4	
Movement	EBL	EBR	NBL	NBT	SBT	SBR	
Lane Configurations	*	7	7	^	ĵ.		
Traffic Volume (vph)	324	257	426	577	629	363	
Future Volume (vph)	324	257	426	577	629	363	
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	
Total Lost time (s)	4.0	4.0	5.0	5.0	5.0		
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00		
Frpb, ped/bikes	1.00	1.00	1.00	1.00	0.98		
Flpb, ped/bikes	1.00	1.00	1.00	1.00	1.00		
Frt	1.00	0.85	1.00	1.00	0.95		
Flt Protected	0.95	1.00	0.95	1.00	1.00		
Satd. Flow (prot)	1752	1568	1752	1845	1715		
Flt Permitted	0.95	1.00	0.95	1.00	1.00		
Satd. Flow (perm)	1752	1568	1752	1845	1715		
Peak-hour factor, PHF	0.90	0.90	0.90	0.90	0.90	0.90	
Adj. Flow (vph)	360	286	473	641	699	403	
RTOR Reduction (vph)	0	215	0	0	11	0	
Lane Group Flow (vph)	360	71	473	641	1091	0	
Confl. Peds. (#/hr)	20	20	20			20	
Heavy Vehicles (%)	3%	3%	3%	3%	3%	3%	
Turn Type	Prot	Prot	Prot	NA	NA		
Protected Phases	7	4	5	2	6		
Permitted Phases							
Actuated Green, G (s)	32.2	32.2	28.1	88.2	55.1		
Effective Green, g (s)	32.2	32.2	28.1	88.2	55.1		
Actuated g/C Ratio	0.25	0.25	0.22	0.68	0.43		
Clearance Time (s)	4.0	4.0	5.0	5.0	5.0		
Vehicle Extension (s)	3.5	3.0	3.5	4.5	4.5		
Lane Grp Cap (vph)	435	390	380	1257	730		
v/s Ratio Prot	c0.21	0.05	c0.27	0.35	c0.64		
v/s Ratio Perm							
v/c Ratio	0.83	0.18	1.24	0.51	1.49		
Uniform Delay, d1	46.0	38.2	50.7	10.1	37.1		
Progression Factor	1.00	1.00	1.00	1.00	1.00		
Incremental Delay, d2	12.5	0.2	130.5	0.6	229.5		
Delay (s)	58.5	38.5	181.1	10.6	266.6		
Level of Service	E	D	F	В	F		
Approach Delay (s)	49.6			83.0	266.6		
Approach LOS	D			F	F		
Intersection Summary							
HCM 2000 Control Delay			146.2	H	CM 2000	Level of Service	F
HCM 2000 Volume to Capa	acity ratio		1.29				
Actuated Cycle Length (s)			129.4	S	um of lost	time (s)	18.0
Intersection Capacity Utiliza	ation		109.2%	IC	CU Level c	of Service	Н
Analysis Period (min)			15				
o Critical Lana Croup							

c Critical Lane Group

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	•	•	•	†	ļ
Lane Group	EBL	EBR	NBL	NBT	SBT
Lane Group Flow (vph)	360	286	473	641	1102
v/c Ratio	0.83	0.47	1.24	0.51	1.49
Control Delay	62.3	6.8	173.1	12.7	257.1
Queue Delay	0.0	0.0	0.0	0.0	0.0
Total Delay	62.3	6.8	173.1	12.7	257.1
Queue Length 50th (ft)	286	0	~496	244	~1283
Queue Length 95th (ft)	404	68	#759	394	#1657
Internal Link Dist (ft)	381			511	417
Turn Bay Length (ft)	70		175		
Base Capacity (vph)	542	921	380	1257	740
Starvation Cap Reductn	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0
Reduced v/c Ratio	0.66	0.31	1.24	0.51	1.49

Intersection Summary

Queue shown is maximum after two cycles.

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Volume exceeds capacity, queue is theoretically infinite.
 Queue shown is maximum after two cycles.

^{# 95}th percentile volume exceeds capacity, queue may be longer.

	•	•	•	†		4	
Movement	EBL	EBR	NBL	NBT	SBT	SBR	
Lane Configurations	ች	7	ች	†	f.		
Traffic Volume (vph)	231	478	318	587	501	400	
Future Volume (vph)	231	478	318	587	501	400	
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	
Total Lost time (s)	4.0	4.0	5.0	5.0	5.0		
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00		
Frpb, ped/bikes	1.00	1.00	1.00	1.00	0.97		
Flpb, ped/bikes	1.00	1.00	1.00	1.00	1.00		
Frt	1.00	0.85	1.00	1.00	0.94		
Flt Protected	0.95	1.00	0.95	1.00	1.00		
Satd. Flow (prot)	1752	1568	1752	1845	1691		
Flt Permitted	0.95	1.00	0.95	1.00	1.00		
Satd. Flow (perm)	1752	1568	1752	1845	1691		
Peak-hour factor, PHF	0.96	0.96	0.96	0.96	0.96	0.96	
Adj. Flow (vph)	241	498	331	611	522	417	
RTOR Reduction (vph)	0	367	0	0	14	0	
Lane Group Flow (vph)	241	131	331	611	925	0	
Confl. Peds. (#/hr)	20	20	20			20	
Heavy Vehicles (%)	3%	3%	3%	3%	3%	3%	
Turn Type	Prot	Prot	Prot	NA	NA		
Protected Phases	7	4	5	2	6		
Permitted Phases							
Actuated Green, G (s)	21.9	21.9	28.0	88.2	55.2		
Effective Green, g (s)	21.9	21.9	28.0	88.2	55.2		
Actuated g/C Ratio	0.18	0.18	0.24	0.74	0.46		
Clearance Time (s)	4.0	4.0	5.0	5.0	5.0		
Vehicle Extension (s)	3.5	3.0	3.5	4.5	4.5		
Lane Grp Cap (vph)	322	288	411	1366	783		
v/s Ratio Prot	c0.14	0.08	c0.19	0.33	c0.55		
v/s Ratio Perm							
v/c Ratio	0.75	0.45	0.81	0.45	1.18		
Uniform Delay, d1	46.0	43.3	43.0	6.0	31.9		
Progression Factor	1.00	1.00	1.00	1.00	1.00		
Incremental Delay, d2	9.5	1.1	11.2	0.4	94.3		
Delay (s)	55.4	44.4	54.2	6.4	126.2		
Level of Service	Е	D	D	Α	F		
Approach Delay (s)	48.0			23.2	126.2		
Approach LOS	D			С	F		
ntersection Summary							
HCM 2000 Control Delay			67.1	Н	CM 2000	Level of Service	Е
HCM 2000 Volume to Capa	acity ratio		1.03				
Actuated Cycle Length (s)	•		119.1	S	um of lost	time (s)	18.0
Intersection Capacity Utilization	ation		93.7%		U Level c		F
Analysis Period (min)			15				
Critical Lana Croup							

c Critical Lane Group

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	•	•	4	†	↓
Lane Group	EBL	EBR	NBL	NBT	SBT
Lane Group Flow (vph)	241	498	331	611	939
v/c Ratio	0.75	0.76	0.80	0.45	1.19
Control Delay	60.8	14.5	59.6	7.8	126.1
Queue Delay	0.0	0.0	0.0	0.0	0.0
Total Delay	60.8	14.5	59.6	7.8	126.1
Queue Length 50th (ft)	177	31	240	158	~858
Queue Length 95th (ft)	266	153	#422	282	#1211
Internal Link Dist (ft)	381			511	417
Turn Bay Length (ft)	70		175		
Base Capacity (vph)	589	1052	412	1366	792
Starvation Cap Reductn	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0
Reduced v/c Ratio	0.41	0.47	0.80	0.45	1.19

Intersection Summary

Queue shown is maximum after two cycles.

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Volume exceeds capacity, queue is theoretically infinite.
 Queue shown is maximum after two cycles.

^{# 95}th percentile volume exceeds capacity, queue may be longer.

Appendix G	– 2040 Improved Signalized Intersection Weekday AM and PM Synchro Worksheets and Queue Worksheets
	and FIVI Synchro Worksheets and Queue Worksheets

	۶	\rightarrow	4	†	ļ	✓		
Movement	EBL	EBR	NBL	NBT	SBT	SBR		
Lane Configurations	ሻሻ	7	ሻሻ	↑	†	1		
Traffic Volume (vph)	324	257	426	577	629	363		
Future Volume (vph)	324	257	426	577	629	363		
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900		
Total Lost time (s)	4.0	4.5	5.0	5.0	5.0	5.0		
Lane Util. Factor	0.97	1.00	0.97	1.00	1.00	1.00		
Frpb, ped/bikes	1.00	1.00	1.00	1.00	1.00	1.00		
Flpb, ped/bikes	1.00	1.00	1.00	1.00	1.00	1.00		
Frt	1.00	0.85	1.00	1.00	1.00	0.85		
Flt Protected	0.95	1.00	0.95	1.00	1.00	1.00		
Satd. Flow (prot)	3400	1568	3400	1845	1845	1568		
Flt Permitted	0.95	1.00	0.95	1.00	1.00	1.00		
Satd. Flow (perm)	3400	1568	3400	1845	1845	1568		
Peak-hour factor, PHF	0.90	0.90	0.90	0.90	0.90	0.90		
Adj. Flow (vph)	360	286	473	641	699	403		
RTOR Reduction (vph)	0	69	0	041	099	147		
Lane Group Flow (vph)	360	217	473	641	699	256		
Confl. Peds. (#/hr)	20	20	20	041	033	20		
Heavy Vehicles (%)	3%	3%	3%	3%	3%	3%		
Turn Type Protected Phases	Prot 7	pt+ov 4 5	Prot	NA 2	NA	pt+ov 6 7		
	1	4 5	5		6	0 /		
Permitted Phases	10.0	62.0	24.2	00.0	60.6	0E E		
Actuated Green, G (s)	19.9	63.9	24.3	89.9	60.6	85.5		
Effective Green, g (s)	19.9	63.9	24.3	89.9	60.6	85.5		
Actuated g/C Ratio	0.15	0.48	0.18	0.67	0.45	0.64		
Clearance Time (s)	4.0		5.0	5.0	5.0			
Vehicle Extension (s)	3.5	=	3.5	4.5	4.5	202		
Lane Grp Cap (vph)	503	744	614	1233	831	996		
v/s Ratio Prot	c0.11	c0.14	c0.14	0.35	c0.38	0.16		
v/s Ratio Perm	2 = 2	0.00	0	0.50	0.04	2.00		
v/c Ratio	0.72	0.29	0.77	0.52	0.84	0.26		
Uniform Delay, d1	54.6	21.5	52.4	11.3	32.7	10.7		
Progression Factor	1.00	1.00	1.00	1.00	1.00	1.00		
Incremental Delay, d2	5.0	0.2	6.1	0.6	8.3	0.2		
Delay (s)	59.6	21.7	58.6	12.0	41.0	10.9		
Level of Service	E	С	Е	В	D	В		
Approach Delay (s)	42.8			31.7	30.0			
Approach LOS	D			С	С			
Intersection Summary								
HCM 2000 Control Delay			33.6	Н	CM 2000	Level of Service)	С
HCM 2000 Volume to Cap	acity ratio		0.76					
Actuated Cycle Length (s)			134.5	S	um of los	t time (s)		18.0
Intersection Capacity Utiliz	ation		66.2%	IC	U Level	of Service		С
Analysis Period (min)			15					
o Critical Lana Croup								

c Critical Lane Group

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Movement	EBL	EBR	NBL	NBT	SBT	SBR			
Lane Configurations	ሻሻ	7	ሻሻ	†	↑	7			
Traffic Volume (vph)	231	478	318	587	501	400			
Future Volume (vph)	231	478	318	587	501	400			
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900			
Total Lost time (s)	4.0	4.5	5.0	5.0	5.0	5.0			
Lane Util. Factor	0.97	1.00	0.97	1.00	1.00	1.00			
Frpb, ped/bikes	1.00	1.00	1.00	1.00	1.00	1.00			
Flpb, ped/bikes	1.00	1.00	1.00	1.00	1.00	1.00			
Frt	1.00	0.85	1.00	1.00	1.00	0.85			
Flt Protected	0.95	1.00	0.95	1.00	1.00	1.00			
Satd. Flow (prot)	3400	1568	3400	1845	1845	1568			
Flt Permitted	0.95	1.00	0.95	1.00	1.00	1.00			
Satd. Flow (perm)	3400	1568	3400	1845	1845	1568			
Peak-hour factor, PHF	0.96	0.96	0.96	0.96	0.96	0.96			
Adj. Flow (vph)	241	498	331	611	522	417			
RTOR Reduction (vph)	0	113	0	0	0	153			
Lane Group Flow (vph)	241	385	331	611	522	264			
Confl. Peds. (#/hr)	241	20	20	011	JZZ	204			
Confl. Bikes (#/hr)	20	20	20			1			
Heavy Vehicles (%)	3%	3%	3%	3%	3%	3%			
Turn Type Protected Phases	Prot 7	pt+ov	Prot	NA 2	NA 6	pt+ov 6 7			
Permitted Phases	1	4 5	5	2	0	0 /			
	17.5	51.1	18.8	67.9	44.1	66.6			
Actuated Green, G (s)	17.5	51.1	18.8	67.9	44.1	66.6			
Effective Green, g (s)	0.17	0.49	0.18	0.65	0.42	0.63			
Actuated g/C Ratio	4.0	0.49	5.0	5.0	5.0	0.03			
Clearance Time (s)	3.5		3.5	4.5					
Vehicle Extension (s)		704			4.5	000			
Lane Grp Cap (vph)	565	761	607	1190	773	992			
v/s Ratio Prot	0.07	c0.25	0.10	c0.33	c0.28	0.17			
v/s Ratio Perm	0.40	0.54	0.55	0.54	0.00	0.07			
v/c Ratio	0.43	0.51	0.55	0.51	0.68	0.27			
Uniform Delay, d1	39.3	18.4	39.3	9.9	24.7	8.5			
Progression Factor	1.00	1.00	1.00	1.00	1.00	1.00			
Incremental Delay, d2	0.6	0.5	1.1	0.6	2.8	0.2			
Delay (s)	40.0	19.0	40.4	10.5	27.5	8.8			
Level of Service	D	В	D	В	C	A			
Approach Delay (s)	25.8			21.0	19.2				
Approach LOS	С			С	В				
Intersection Summary									
HCM 2000 Control Delay			21.7	Н	CM 2000	Level of Servic		С	
HCM 2000 Volume to Capa	city ratio		0.64			2 2 2 2 2 3 3 1 1 0			
Actuated Cycle Length (s)	,		105.2	S	um of los	t time (s)	18	3.0	
Intersection Capacity Utiliza	ation		66.0%			of Service		C	
Analysis Period (min)			15						
c Critical Lane Group									
5 Sillious Lario Oroup									

	۶	\rightarrow	4	†	ţ	4
Lane Group	EBL	EBR	NBL	NBT	SBT	SBR
Lane Group Flow (vph)	360	286	473	641	699	403
v/c Ratio	0.71	0.35	0.76	0.52	0.84	0.38
Control Delay	67.6	13.4	65.3	14.9	45.7	9.0
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	67.6	13.4	65.3	14.9	45.7	9.0
Queue Length 50th (ft)	193	92	254	362	665	119
Queue Length 95th (ft)	#258	165	#343	467	856	189
Internal Link Dist (ft)	381			511	417	
Turn Bay Length (ft)	70	70	175			100
Base Capacity (vph)	621	873	762	1453	1133	1153
Starvation Cap Reductn	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0
Reduced v/c Ratio	0.58	0.33	0.62	0.44	0.62	0.35
Intersection Summary						

^{# 95}th percentile volume exceeds capacity, queue may be longer.

Queue shown is maximum after two cycles.

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2: NE Everett St & NE Lake Rd

	•	•	4	†	ļ	4
Lane Group	EBL	EBR	NBL	NBT	SBT	SBR
Lane Group Flow (vph)	241	498	331	611	522	417
v/c Ratio	0.42	0.58	0.54	0.51	0.68	0.37
Control Delay	48.4	13.8	47.7	13.2	32.5	2.2
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	48.4	13.8	47.7	13.2	32.5	2.2
Queue Length 50th (ft)	66	124	96	147	237	0
Queue Length 95th (ft)	169	298	219	439	566	45
Internal Link Dist (ft)	381			511	417	
Turn Bay Length (ft)	200	200	300			300
Base Capacity (vph)	839	1049	1030	1640	1388	1322
Starvation Cap Reductn	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0
Reduced v/c Ratio	0.29	0.47	0.32	0.37	0.38	0.32
Intersection Summary						

Appendix H – 2040 Multilane Roundabout Weekday AM and PM HCS7 Worksheets

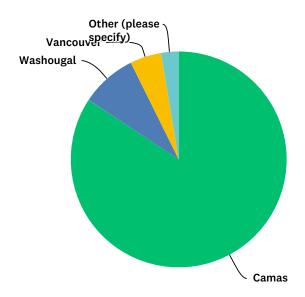
	HCS7 Roundabouts Report																	
General Information			Site Informa							on								
Analyst	AR						Inte	ersection			NW Everett / NW Lake Rd							
Agency or Co.	KAI						E/W	V Street I	Name		NW Lake Road							
Date Performed	1/15/	2019					N/S	Street N	lame		NW Everett Street							
Analysis Year	2019						Ana	alysis Tim	ne Perio	l (hrs)	0.25							
Time Analyzed	AM Peak Hour							k Hour F	actor		0.90							
Project Description	Year 2	Year 2040 Traffic Conditions									Camas	, WA						
Volume Adjustments	s and	Site C	haract	teristic	S													
Approach		E	В			W	′B		\top	N	В				SB			
Movement	U L T R U L							R	U	L	Т	R	U	L	Т	R		
Number of Lanes (N)	0	1	0	0	0	0	0	0	0	1	1	0	0	0	1	0		
Lane Assignment				-						L	Т			·		T		
Volume (V), veh/h	0	324		257					0	426	577		0		629	363		
Percent Heavy Vehicles, %	0	3		3					0	3	3		0		3	3		
Flow Rate (VPCE), pc/h	0 371 294								0	488	660		0		720	415		
Right-Turn Bypass	Yielding						ne			No	ne			Yie	lding			
Conflicting Lanes	cting Lanes 1								\top		1			1				
Pedestrians Crossing, p/h	estrians Crossing, p/h 20									(0				20			
Critical and Follow-U	Јр Неа	adway	/ Adju	stmen	t													
Approach				EB		Т		WB		Τ	NB		Т		SB			
Lane			Left	Right	Bypass	Le	ft	Right	Bypas	Left	Right	Вура	ss	Left	Right	Bypass		
Critical Headway (s)				4.9763	4.9763					4.5436	4.5436				4.9763	4.9763		
Follow-Up Headway (s)				2.6087	2.6087	6087				2.5352	2.5352				2.6087	2.6087		
Flow Computations,	Capac	ity ar	nd v/c	Ratios														
Approach				EB		Τ	WB			Τ	NB				SB			
Lane			Left	Right	Bypass	Le	ft	Right	Bypas	Left	Right	Вура	ss	Left	Right	Bypass		
Entry Flow (v _e), pc/h				371	294					488	660		Т		720	415		
Entry Volume veh/h				360	285					474	641	641			699	403		
Circulating Flow (v _c), pc/h				720				1519			371				488			
Exiting Flow (vex), pc/h				0				488			1031				720			
Capacity (c _{pce}), pc/h				662	662					1013	1013				839	839		
Capacity (c), veh/h				641	641					984	984				812	812		
v/c Ratio (x)				0.56	0.45					0.48	0.65				0.86	0.50		
Delay and Level of S	ervice	1																
Approach				EB				WB			NB		Т		SB			
Lane			Left	Right	Bypass	Le	ft	Right	Bypas	Left	Right	Вура	ss	Left	Right	Bypass		
Lane Control Delay (d), s/veh				15.4	12.3					9.4	13.5				29.3	11.2		
Lane LOS			СВ							А	В				D	В		
95% Queue, veh			3.5 2.3							2.7	5.0				10.6	2.8		
Approach Delay, s/veh				14.0						11.8				22.7				
Approach LOS	В										В С							
Intersection Delay, s/veh LO						16.5					C							
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				HCS	7 Ro	und	abo	uts	Re	port									
General Information							Site Information												
Analyst	AR						Intersection					NW Everett / NW Lake Rd							
Agency or Co.	KAI						E/V	V Street	Nar	me		NW Lake Road							
Date Performed	1/15/	2019					N/S Street Name					NW Everett Street							
Analysis Year	2019	Ana	alysis Tii	me l	Period (hrs)	0.25												
Time Analyzed	PM P	eak Hou	ır			Pea	ak Hour	Fact	tor		0.96	0.96							
Project Description	Year 2040 Traffic Conditions							isdiction	1			Camas,	WA						
Volume Adjustments	and	Site C	harac	teristic	S														
Approach			EB			V	/B				N	В			SB				
Movement	U	L	Т	R	U	L	Т	R	Î	U	L	Т	R	U	L	Т	R		
Number of Lanes (N)	0	1	0	0	0	0	0	0		0	1	1	0	0	0	1	0		
Lane Assignment											L	Т					Т		
Volume (V), veh/h	0	270		478				\Box	Ī	0	313	587		0		501	400		
Percent Heavy Vehicles, %	0	3		3						0	3	3		0		3	3		
Flow Rate (VPCE), pc/h	0	290		513						0	336	630		0		538	429		
Right-Turn Bypass		Yielding No.									No	ne			Y	ielding			
Conflicting Lanes		1									1			1					
Pedestrians Crossing, p/h		20						0								20			
Critical and Follow-U	and Follow-Up Headway Adjustment																		
Approach				EB		Т		WB				NB		Т		SB			
Lane			Left	Right	Bypas	s Le	eft	Right	В	Bypass	Left	Right	Вура	ss	Left	Right	Bypass		
Critical Headway (s)				4.9763	4.9763	3			T		4.5436	4.5436				4.9763	4.9763		
Follow-Up Headway (s)				2.6087	2.6087	,			T		2.5352	2.5352				2.6087	2.6087		
Flow Computations,	Capa	city a	nd v/c	Ratios	;														
Approach				EB			WB			NB					SB				
Lane			Left	Right	Bypas	s Le	eft Right Bypass			Bypass	Left	Right	Вура	ss	Left	Right	Bypass		
Entry Flow (v _e), pc/h				290	513				T		336	630				538	429		
Entry Volume veh/h				282	498					326 612						417			
Circulating Flow (vc), pc/h				538			1256					290				336			
Exiting Flow (vex), pc/h				0				336				920				538			
Capacity (c _{pce}), pc/h				797	797				Τ		1091	1091				980	980		
Capacity (c), veh/h				772	772						1059	1059				948	948		
v/c Ratio (x)				0.36	0.65				Т		0.31	0.58				0.55	0.44		
Delay and Level of S	ervice																		
Approach				EB				WB				NB		Т		SB			
Lane			Left	s Le	eft	Right	В	Bypass	Left	Right	Вура	ss	Left	Right	Bypass				
Lane Control Delay (d), s/veh									6.4	10.8				11.1	8.9				
Lane LOS		A C									А	В				В	А		
95% Queue, veh		1.7 4.8							Π		1.3	3.8				3.5	2.3		
Approach Delay, s/veh		13.5										9.3				10.1			
Approach LOS		В										A B							
Intersection Delay, s/veh LO	S					10.8								В					
Copyright © 2019 University of	Elorida	All Diabt	c Poconio	nd.	Ш	^\$7 ਜM	Round	dabouts	Vor	sion 7/	1		(onor	atod: 1/	25/2010 9	·21·11 AM		

Appendix D Online Survey Results

Q1 Where do you reside?

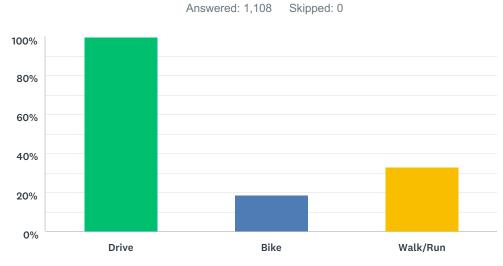
Answered: 1,108 Skipped: 0



ANSWER CHOICES	RESPONSES	
Camas	84.30%	934
Washougal	8.39%	93
Vancouver	4.69%	52
Other (please specify)	2.62%	29
TOTAL		1,108

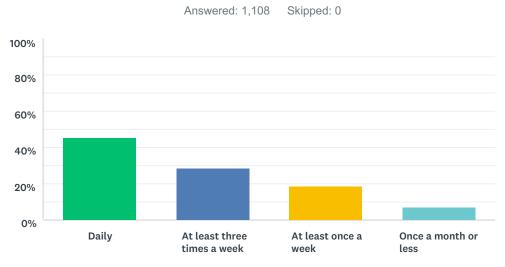
Where	do you reside?
Other	(please specify)
1	North of Camas but have Camas address and zip
2	Livingston Mtn but I consider myself a resident of Camas
3	North Bonneville
4	Camas Produce
5	N. Bonneville
6	Just north of Camas city limits, north of Lacamas lake
7	Very East Clark County
8	Fern Prairie
9	Battle Ground was in Camas for 4 years
10	fern prairie
11	Portland
12	Livingston Mtn. area of Unincorporated Clark County
13	Clark County
14	Fern Prairie
15	hills north of washougal
16	outside Camas (Fern Prairie, near the airport)
17	Alaska
18	Boring
19	Reside in yacolt own house in Camas
20	Portland
21	Brush Prairie
22	Fern Prairie just outside "city limits"
23	Fern Prairie
24	Building home in Camas/Livingston Mtn; hope to finish by May
25	Portland
26	Camas Urban Growth Boundary - Clark County
27	Cowlitz County
28	Clark County
29	outside camas

Q2 Do you drive, bike, or walk/run through the intersection? (Select all that apply.)



ANSWER CHOICES	R CHOICES RESPONSES	
Drive	99.55%	1,103
Bike	18.68%	207
Walk/Run	32.85%	364
Total Respondents: 1,108		

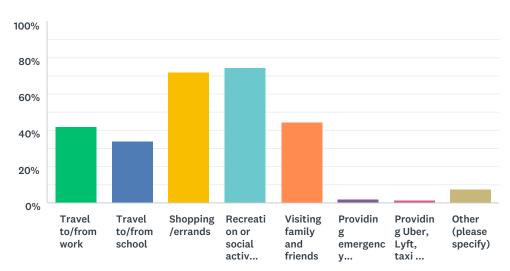
Q3 How often do you use the Lake Road/Everett Street intersection?



ANSWER CHOICES	RESPONSES	
Daily	45.67%	506
At least three times a week	28.70%	318
At least once a week	18.50%	205
Once a month or less	7.13%	79
TOTAL		1,108

Q4 What reasons do you have for using the intersection? (Select all that apply.)





ANSWER CHOICES	RESPONSES	
Travel to/from work	41.88%	464
Travel to/from school	33.75%	374
Shopping/errands	71.93%	797
Recreation or social activities	74.55%	826
Visiting family and friends	44.68%	495
Providing emergency response services or transport	2.08%	23
Providing Uber, Lyft, taxi or other rideshare services	1.35%	15
Other (please specify)	7.31%	81
Total Respondents: 1,108		

What r	easons do you have for using the intersection? (Select all that apply.)
	(please specify)
1	On way to recreate
2	Intersection lacks parking for recreation
-	Use it as an alternative route.
3	
4	to and from Dr.
5	Preferred route throuh area. Pretty
6	To and from doctor appt & Post Office
7	Travel multiple times daily through lake road and everette
8	Live around the corner from the Intersection
9	rides to medical appointments
10	owner of Camas Produce
11	Travel to my property, Travel to church
12	School bus driver for Camas Schools
13	Drive school bus for Camas
14	Dr appts
15	CSD activities, kid after-school activities downtown
16	Travel to and from church
17	Church and recreation
18	I choose to avoid intersection a certain times, when the high school let's out & rush hour
19	To get home
20	Getting son to swim team
21	I would love to drive this way but have found a different way because this traffic make me late.
22	I live there
23	Picking up from high school
24	biking (may be under Recreation)
25	Travel to soccer practice
26	Traveling to CHS to pick up student or attend an event
27	Church
28	Work
29	Library
30	Access to travel west into the gorge for roadtrips
31	Taking my daughter to preschool
32	Coast to Coast/ Camas Produce
33	Professional services
34	Attend Church
35	Travel to/from appointments
36	Picking up mail from Post Office
37	I want to
38	We use it daily multiple time only live a block away
39	Sunday to church
40	Drive school bus for Camas
41	High School activities
42	Camas school bus driver who lives on Everett very close to the intersection
43	Doctor & Dental appointments
44	For work
45	Main way in and out of town to hwy

46	church
47	school bus driver
48	Going to the park
49	Going to church-related activities
50	It's 1 of only a couple means to connect Camas to East Vancouver.
51	Delivering products to customers, working with the deli to provide food for our business
52	I bike through the intersection 2-3 times per week as part of my training regimen
53	Church
54	travel to church & back several times weekly
55	Church
56	No particular reason
57	Doctor appointments
58	city of camas parks employee so frequent travel
59	to/from volunteer work
60	Selling real estate
61	travel to/from church
62	Walking my dogs
63	I teach in Camas and sometimes have meetings at the high school.
64	Charity work at community center
65	sports and to the freeway
66	Because it is a beautiful drive
67	church
68	Kid pickups/dropoffs
69	Church
70	To/from church
71	back and forth to town
72	Church
73	To hike the trails around Round Lake
74	Volunteering
75	Meetings at Lacamas Lodge
76	Volunteer at Lacamas park
77	Drive it for work multiple times a day. (School bus driver)
78	Going to the parks
79	Business trips
80	Library
81	Girl Scouts, Volunteering, Music lessons

Q5 What are some of the issues you've experienced with the current intersection?

818 responses

What a	are some of the issues you've experienced with the current intersection?
	a comment:
1	Gets really backed up when the high school gets out.
2	Where is new parking
3	traffic
4	Long Backups in the morning. Long backups turning left on to lake road
5	Certain times of day traffic can back up well up Lake road
6	Back up and wait time
7	Traffic backup at current light is horrible
8	Long backup on lake road
9	Large amounts of traffic and backlog around school start/end hours
10	Park visitors park on the street create parking
11	Coming down lake road to shop at Camas produce making a left turn with traffic in the back is narrow,
	wider road to allow for left turn would be nice
12	Has no shoulders still people park at the stop light and go walking the park
13	Park entry by intersection does not have enough parking
14	Long waits to get through light, unable to turn out of LaCamas park
15	Traffic, lack of protected right onto lake road
16	Lots of traffic around school times
17	need to be able to left turn in to Camas Produce and Coast to Coast seafood cart!
18	Really long lines
19	Traffic back up
20	Traffic
21	Red light running to turn left
22	Long backups.
23	Traffic backed up. Not enough room for pedestrians or bikers on side of road.
24	
	Long wait times stopped at the light waiting for it to change and making left hand turns congestion. A
	round about might fix this. Also when you walk back and forth between the lakes parks it is scary
	because of all the traffic a pedestrian land bridge would be very beneficial for Walkers and bikers.
25	safety issue, need turn lane into Camas Produce.
26	HUGE backups! Also not always secure that oncoming cars will stop for my motorcycle.
27	Long waits to turn left from Lake. Difficulty getting in and out of the Round Lake parking lot. Parking
	insufficient in that lot.
28	Long wait times
29	long traffic delayscongestion
30	Traffic backups!!!
31	Long waits
32	Long wait.
33	Busy
34	Long backup on Lake Road to turn south onto Everett - turn lane is blocked by traffic turning north.
35	Mostly it is after or before school when the traffic is so heavy.
36	Significant traffic congestion.
37	Some days there are a line of cars on lake road trying to turn left.
38	, ,
	The traffic gets really backed up, causing delays. There's too much traffic for so many people.

39	Opposing traffic sometimes doesn't yield to left green light vehicles
40	Large backups, especially around school start/end times
41	Occasional traffic (school time), otherwise no issues.
42	Long line of traffic going eastbound on Lake Rd at times
43	It can get pretty congested at times.
44	Traffic at beginning/end of school day
45	Too many people
46	I don't always make it through the light and need to wait for the next one.
47	it gets really clogged and backed up in the morning school commute times
48	
	No issues. Certain times of day the traffic backs up on lake road usuallly around 6pm. I turn right to go
	southbound on everette. The signal is good but if the right turnlane could be extended that will help
49	Extremely slow during school bus peak hours. and foot traffic crossing is difficult.
50	Trouble turning left from NE 35th onto Everett going south due to backup in traffic.
51	terrible backups during school commute. why don't they use busses we pay for?
52	
	Busy with highschool traffic in morning and afternoon, busy in evening when commuters come home
53	Crossing Everett as a pedestrian
54	I use my bike from neighborhood close to the high school to go use the park by the lodge or shop at
	Camas produce there is no safe way to get to Camas produce unless I go the wrong way from the stop
	light
55	intersection by a park limited legal parking, no access to local businesss
56	Congestion
57	safty issues for Camas Produce's customers traveling south and trying to make a left turn to shop at
	Camas Produce.
58	traffic backs up very quickly
59	Backups and delays
60	Long backups
61	At school start end times it can back up for a 1/2 mile at least
62	No issues, I'm patient!
63	Long waits during school dismissal times
64	Backed up, had to wait for more than one light cycle.
65	Not widen enough from Lake Rd to make a right to Everett, coupled with people not knowing they can
	make a right on red.
66	Is frequently backed up.
67	Lwalk at Lacamac Bark (at Bound Lake) coveral marnings a week. Turning left out of the newling let is
	I walk at Lacamas Park (at Round Lake) several mornings a week. Turning left out of the parking lot is
60	difficult at the best of times. It will be nearly impossible if a round about replaces the stop light. Too small for volume of traffic.
68	
69 70	Bad cross walk, congestion, poor sidewalk, Congestion
71	Traffic backed up
72	Large backups in the morning and after school.
73	Actually, I have no problems with the intersection
74	There can be a lot of congestion build up. Also, people turning right from lake often get stuck behind
'4	the long line of cars turning left, making congestion worse.
75	Traffic backups at the light; concerns with people walking
/5	Traine backups at the light, concerns with people walking

76	No way to downtown if the traffic is backed up.
77	Traffic
78	Occasional major traffic delays; highly un-optimized walk signals
79	Speed of traffic, no sidewalks, flow
80	Congested flow of traffic.
81	
	It is a bottleneck for those turning right into Lake Rd as well as everyone coming from Lake Rd.
82	Extreme back ups during school hours. Unsafe for bicycles and podestrians because of no sidewalks
	along Everett.
83	Poor bike crossing
84	Backups and extremely long waits.
85	Very long waits after school and in the afternoon
86	hard to cross the road as a pedestrian; hard to use bike lane as a biker
87	It can back up during school related times, beginning of school day or sports events.
88	Long delays
89	Excessive traffic during morning and afternoon commute times and special events
90	Long lines at peak times
91	Traffic congestion
92	Long wait times to make a right turn from Lake onto Everett.
93	A lot of traffic after school
94	Backup of traffic in all directions, long delays
95	During certain times traffic can be backed up making a wall of vehicles.
96	Long lines backing up Lake Road
97	Back up issues in the morning and afternoon school commute
98	Traffic delays
99	Unsafe u turns when traffic backs up on lake road
100	
	Long delays. Especially frustrating when there is a huge line of traffic on one road and little traffic on
	the other and yet the signal doesn't seem able to adapt to the changing traffic patterns.
101	Excessively long wait times to pass through the intersection at various peak times of the day, e.g. before
	and after high school begins/ends.
102	Congestion, limited visibility
103	the light takes a long time, and is pretty chaotic. people make many illegal turns
104	
40-	There are too many cars coming into town from both the lake road and out of from the high school area
105	Would be nice to have a pedestrian bridge.
106	It takes forever and sousse traffic and is constantly some accepted and it soulle and board it COME
107	It takes forever and causes traffic and is constantly super congested and it sucks and I want it GONE
107	Long waits Vehicles are backed up too long at the Lights
108 109	venicies are backed up too long at the lights
109	When I was a nappy in the 1st neighborhood to the left on Lake Pd. I would see almost on a daily basis
	When I was a nanny in the 1st neighborhood to the left on Lake Rd. I would see almost on a daily basis Camas High School teenage drivers run red lights. Also the congestion from people going to and from
	the schools from those neighborhoods off of Lake Rd. is awful. One time it took me 45 minutes to get
	from there to my house in the Goot Park neighborhood where I have lived for 20+ years. That's when I
	started taking the long way home.
110	Everett is not 4 lanes. Thats really is the biggest issue here. All else would work itself out
110	Liverett is not a lanes. Thats really is the biggest issue here. All else would work itself out

111	Long lines/wait times. Trying to take a right onto Everett is a nightmare, especially getting stuck behind
	everyone waiting to take a left.
112	Long waits during school hours
113	Wait is too long
114	Congestion during peak school commute hours
115	Usually none, except when school gets out at the high school or other times when traffic is higher, it
	gets backed up.
116	I walk Round Lake & can't get out for many minutes if the school traffic is occurring. Young drivers often
	make poor choices from what I've seen (high school kids.)
117	Long waits
118	no right turn lanes
119	Difficult for pedestrians or people on bikes on the side near the lake and lacamas lodge
120	Traffic during school opening and let out time is bad.
121	Roundabout would keep traffic moving smoothly. Left hand turn from downtown West is should not be
	blinking; too much traffic.
122	It gets extremely backed up before school/when school lets out.
123	Major congestion backing up on Lake street. A right turn lane there would alleviate some of the
	problem.
	Morning and afternoon traffic to/from Camas High causes major delays.
125	heavy traffic during school start and end times
126	Traffic - bad backups on Lake Road when there are activities at the high school.
127	back up because of turn,extra cars due to schools
128	Very backed up in the morning commute
129	Long wait at stop sign
130	Too many cars trying to go in one direction and not enough lanes.
131	I live not far from this intersection. We cannot get out of our street during congestion. The wait times
	can be very long.
132	Delays during heavy traffic times.
133	
	Too much congestion during school hours. Too much congestion and not enough planning/parking or
	code enforcement during the Lake's Spring/Summer recreational months. It is out of control!
	Narrow Road, long waits due to highschool traffic and no room for bicycles.
135	I don't have any issues.
136	Back up on Lake Road and the back up on Everett from the high school
137	Long lines to turn left onto Everett from lake road.
138	Before and after school hours it becomes very congested. It also very hard during anytime of the day to
	enter or exit round lake parking lot.
139	
	Extensive traffic that lacks effective flow. There is also significant mixed congestion between cars,
	buses, pedestrians, runners and cyclists. I think that a way to separate non motorized traffic and
	pedestrians in crossing the road and lake is essential. Perhaps a separate bridge but certainly not using
	the same road or roundabout. That is inviting accidents.
140	The back up on lake road from the school is the challenge - from the backup of the light turning from
	high school, then getting backed up onto Everett. Maybe a turn lane onto lake would help? Or a
	updated light sequence? Thank you for asking
141	Not much

142	If it is when school is letting out, I will get caught up in a masjid traffic jam. I try to leave the area before
	then.
143	Long delays
144	Delays
145	The intersection has always been perfectly fine with the exception of when there has been
	construction. However, I never travel this route during morning rush hours.
146	Lack of sidewalks on BOTH SIDES of Everett Street. Look where people already walk. Sidewalks should
	go all the way from high school to downtown Camas.
147	The backups on lake road heading towards Everett can be lengthy causing traffic to wait through several
	lights to turn north on to Everett.
148	Get's crowded during school commute but never too bad unless there is construction.
149	
	Hoping roundabout is strongly considered. For either option, hope most effective design to create safe
	travel is used, even if private property needs to be acquired. Now is the time to make this intersection
	effective for the heavy traffic flow. It is not going to decrease, only grow.
150	No parking, to much traffic always backed up, to many people on bike and no sidewalks, people going
	around other cars in not a lane waiting for the light, need wider turn lanes
151	Traffic can often be backed up west of Everett all the way to lacamas lane in the morning. I have seen it
	backed up all the way to Sierra.
152	We live off 35th and the congestion that happens in the morning and evening makes it almost
	impossible to get out onto Everett. Please keep that in mind for those visiting the lake and the 30
	homes that must use 35th to get to and from home daily.
153	Lots of backed up traffic.
154	To many cars, not enough lanes, short lights
155	Traffic backs up. Confused drivers.
156	left turn from NE Lake Rd. to NE Everett is so long on waiting during peak hours in morning
157	Traffic congestion, long waits on lights
158	Waiting too long at that intersection, especially between 3 p.m. and 5 p.m.
159	Congestion @ long wait times to get through the light
160	Long waits to get on Everett from Lake
161	Long lines of traffic when high school lets out.
162	Long wait to turn
163	stay away b4 school and after. traffic backed up past light to high school
164	Lake Road gets backed up too far
165	There is congestion and backup at certain busy times but I'm not sure a roundabout would solve the
	issue. I see potential for more accidents plus all the trees and beauty that would be destroyed in the
	process.
166	Traffic
167	Long wait times at the i tee section during rush hour: school start times and after school, Friday night
	event times.
168	Blind spots. Crossing the streets is not safe for cyclists and Pedestrians
169	I often cannot safely turn left on to Everett from 35th in the morning going to work. Its then very
	difficult to turn right on to lake road b/c there is no turn lane. I cannot get home easily because in the
	afternoon cars/traffic is backed all the way up lake road because the intersection is so busy. It's not safe
	for drivers, hikers or bikers. Please do something.

170	
1,0	When the high school lets kids out at the end of the day, traffic between Leadbetter and Lake is horribly
	backed up. Also in the evening when people are getting off of work, there is a lot of congestion.
171	backed up. 7430 in the evening when people are getting on or work, there is a for or congestion.
1/1	Safety issueTurn Lane needed for Camas Produceyou have to understand and respect that all who
	shop there deserve to be safealso that we support local businessTHAT is key to our area.
172	Excessive traffic, especially weekend and after 3:00pm
173	Congestion during school communtes
174	Sharp turn in narrow area without enough warning. Long wait times.
	Lots of traffic
175	
176	Congestion
177	Heavy traffic
178	Traffic Congestion
179	Really long line on Lake to turn onto Everett
180	Traffic congestion
181	Turning left onto Lake road can be tricky
182	Construction of allows moved by more labeled a constitution to the labeled National Constitution and Constit
40-	Cars parked along road bc parking lot too small for the lake. Narrow road and too many vehicles
183	WAAAY too many cars coming/going from the schools. They should use the buses, since taxpayers are
	paying for the buses. This would alleviate 80 percent of morning and afternoon traffic. Then we
	wouldn't have to waste money on "improvements".
184	Long wait times dictated by Camas High School schedule.
185	Very long delays when school is letting out
186	The school traffic
187	Illegal street parking causes unsafe conditions need more parking by the intersection
188	the amount of traffic during school times.
189	Traffic backed up long distances on Lake Rd. Blind right hand curve by Lacamas Lake Lodge. Long waits
	at traffic lights.
190	Traffic backs up
191	Long lines of traffic - people not paying attention when it's their turn to go.
192	The back up waiting for a green light
193	
	Traffic backs up pass turn to CHS in the afternoon as late as 25 minutes after school dismissal. When
	warm weather kids running and having fun by the lakes, but not paying attention to traffic.
194	It gets pretty backed up with traffic in the am and afternoon due to school, events, etc. I'm concerned
	about the environmental effects of the traffic.
195	I have had no issues
196	Backed up traffic
197	Long waits, stupid congestion for our once small townfrustrating
198	Traffic
199	Common answer: traffic delay. A roundabout won't solve it! People neededing to go north on Everett
L	from lake will NEVER yield during busy times! It will be worse then the light.
200	Long wait times in am and pm
201	Mostly backups. Hard to cross.
202	Long back up during school starts/dismissals
203	
	Ability to leave the parking lot at Round lake safely heading towards the Everett/Lake Road Intersection

204	
204	Excessive wait times at certain hours. Also bike and pedestrian access takes time and requires care.
205	Traffic
206	Traine
200	Several times I've almost been side-swiped while on my bike by a car entering the bike lane. I try not to
	drive to Lacamas Park for several reasons but this is a dangerous intersection for cyclists. Also, I've
	gotten stuck in traffic on Lake Rd. like many other motorists.
207	Coming infrim Lske rd is congested.
208	Long delays during school pick up/drop off.
209	Traffic backed up from CHS to Lake road during school start/end times, also long back ups on early
209	evening when people are coming home from work
210	It's terribly hard to ever turn out if the park lot because of the intersection. Also, there is an extreme
210	backup every morning due to Camas HS traffic and the fact that it's a one lane road! It is far too long of
	a wait and is a dangerous intersection for new teenaged drivers to have to try to rush through to get to
	school since the wait is so long!
211	Large backups during school to and from hours.
211	Large backups during scribor to and from flours.
212	Backed up traffic and unsafe running/biking conditions for high school athletes or commuting students.
213	Slow traffic (from Camas High School) and construction slow downs
	impatient drivers on red light rt turns, inability to see approaching traffic
214	Heavy traffic before and after high school.
216	Heavy congestion.
217	Long waits, usually coming down Lake Rd
217	the backup at the intersection goes all directions. Time has to be added on to any trip to that area.
210	Getting onto Everett from side roads is a pain and is dependent on someone (s) being nice enough to
	let you onto the road.
219	Long waits at the light during peak travel hours.
220	Such congestion now especially since Camas High was built. I lived in the area for 25 years, never seen it
220	so bad. Round about may just work good.
221	None really. A little busy at peak hours.
	I have experienced long delays because of traffic in almost all directions of the current T traffic layout.
	Long delays when taking my son to the high school (going North) and longer delays when returning
	home (going South) I have experienced delays when going west on lake road from Everett and going
	east on lake road during "rush hour" trying to get to Everett. Using the Lacamas lake recreation parking
	area is not easy during these hours.
223	Long traffic delays. Tight spaces for cyclists.
224	Too long of wait for lights because of usually school buses
225	
	There needs to be a right hand turning lane at the very least. (Going from lake road onto Everett). Really
	needs to be a three lane road but I dunno of that's possible in that small space.
226	There are no problems except to avoid between 3:10 and 3:40. Otherwise fine.
227	long back ups on lake rd turning south onto Everett.
228	Traffic jam
229	Long delays on Lake Road, backed up traffic both ways
230	Traffic before/after school
231	Long delays during CHS start & end times. Accidents often increase during that time frame. Weekends
	are difficult with park access and parking along the road.
	and an individual and

232	Need easy access to camas produce form the roundabout
233	Traffic
234	Turning through busy traffic. Trying to exit the park lot is difficult as well.
235	Heavy traffic. Come to a complete stop. A roundabout would be more efficient
236	Need defined turn lane from south bound to west bound
237	I want to make sure that there is continued easy access to Camas Produce as I have to turn there for
	work in my truck.
238	Cars being backed up in ridiculously long lines waiting for the light
239	Long wait, heavy traffic
240	
	"Safety issue. Please provide turning lane for customers coming the roundabout to Camas Produce".
241	Heavy traffic
242	I avoid it if it's around or after 5pm
243	I work at Camas High School. It is very crowded in the morning when students are arriving. Sometimes it
	backs up Lake Road past the boat ramp parking lot at Lacamas Lake. I think I've had to cycle through 5-6
	light changes to get through.
244	Traffic congestion.
245	People trying to turn right from lake road to everett get caught up with people turning left onton
	everett bc the right turn lane isnt long enough
246	Heavy traffic
247	Many of the issues with this intersection stem from stupid drivers.
248	Traffic backed up on lake road
249	Long lines waiting for light to turn at traffic times.
250	Occasional conjestion at peak times, but it's not that bad.
251	Long backups at the light.
252	Sometimes it's ambiguous for drivers to know that I am there as a cyclist and that I should have a turn,
	too.
253	Longer lines of cars backed up onto Lake around curves; people aren't expecting to stop suddenly; too
	many cars parked on Lake and Everett in summer for park parking; too many pedestrians and bicyclists
	on roads where there isn't space
	During peak times the wait is excessive
255	Impossible to turn left from lake rd onto Everett unless a car is doing the same. Also, Everett is backed
256	up all the way to the stoplight when the high school gets released.
256	Traffic flow is an issue
257	Back up on Lake Road
258	Extreme traffic backups
259	Long wait time on stop light when people cross the road. It seems 10 seconds too long. Line moves
	slowly due to congestion. No right hand turn lane onto Lake Rd coming from the high school so have to
260	wait for car in front who is heading south to move forward.
260	Long wait times at signal Often there is a backup but coming around the curve makes it hard to see
261 262	Often there is a backup but coming around the curve makes it hard to see.
	Very busy during school hours Severe back ups during school start and finish times
263	Severe back ups during school start and finish times.
264	Enhance entrances at the park and Camas Produce Cars are backed up past 43rd intersection
265	· ·
266	heavy congestion with school traffic twice daily Congestion from high school traffic hefore school starts and after students are released.
267	Congestion from high school traffic before school starts and after students are released

268	
	Long waits in all directions especially during rush hour and the high school start and end times.
269	Extreme traffic congestion. Trouble accessing back onto either Lake or Everett from parking lots due to
	heavy traffic and traffic backups.
270	Traffic congestion
271	Waiting when there shouldn't be a wait if turn lanes existed. Not being able to easily get from round
	Lake to lacamas lake by way of walking.
272	Traffic Jams
273	Back up onto Lake road having to wait 5+ minutes
274	
	Worried about getting into Camas Produce without a turn lane, please consider it for everyone's safety!
275	congestion
276	Gridlock during bus route activity
277	Traffic and backup in morning
278	The light at the high school is not synchronized and causes problems. There is no sidewalk for folks
	walking up. There is no bike lane when coming down lake road and I am forced to use the pedestrian
	crosswalk because cars do bot respect a bike in this intersection
279	hard to turn into and out of Camas Produce
280	Not many issues, but occasionally some backups during peak times
281	Increased congestion. Speeding.
282	
	Whenever CHS have events, the intersection gets congested and it could take 30 min to get through.
	Morning and after school traffic is really bad. Also, we could use a padesteian/bike bridge instead of
	pedestrian Cross walk so it does not disturb the traffic flaws.
283	
	Safety Issue: Please provide a turning lane for us to turn into and it of Camas Produce. Thank you
284	high traffic volume in the mornid afterno. I've seen cars backed up all the way up the hill , by the old
	Lacamas Heights school.
285	Difficult to turn right onto Everett due to traffic backing up on Lake Road, many of whom are waiting to
	turn left.
	major back ups especially when the schools let out
287	Not safe and not enough room for cars, walkers/runners and bikers to use it safetly
288	Mainly I have issues trying to turn left onto Lake Rd from the Heritage Parking Lot. I also think there
	should be more trail hiking car parking there.
289	
	very high traffic volumes in morning and at mid afternoon when high school lets out. Also, there needs
	to be a right turn lane for the transition from 500 to lake road. A good portion of the traffic on 500 at
	that intersection turns onto Lake Road, without a turn lane trqaffic backs up significantly. I think the
	volume of peak traffic will make a round about unsafe and will result in a higher accident level. I've
	noticed that since the population has increased drivers are more impatient and tend to drive more
	recklessly than a few years ago. I think a round about at that location is the wrong solution. Given the
	traffic levels and the lake access by pedestrians crossing 500, a positive control traffic light intersection
	with a right turn lane onto Lake from 500 south bound is the only safe solution to the increasing traffic
	at that location.
290	Long waits at the light, especially when there is road work going on.
291	Traffic banked way up in both directions. After HS gets out it's a mess.

292	
	The left turn lane going from Lake Road to Everett has a disproportionately slow light, and it backs up
	traffic. The design of the road also makes it so that very few cars can turn left at a time. Meanwhile, the
	light that goes straight on Everett is green for too long when there's much fewer traffic on that side.
293	Green light time from lake road is disproportionate to the green light time on Everett from downtown
	to the high school
294	A lot of traffic
295	Traffic waiting to turn left onto Everett block traffic turning right.
296	Traffic
297	Very long waits, anxiety crossing the intersection by foot
298	
	Long traffic lines producing a wait that last de real cycles. Traffic turning into Camas Produce creating
	backups. It is very difficult to turn south out of Camas Produce, a popular store.
299	Concern for pedestrians and cyclists
300	no problem other than long wait at light
301	"Safety issue. Please provide turning lane for customers coming to Camas Produce through the
	roundabout.
302	Long delays and no turn lane into the produce store
303	to much traffic, mostly when the high school lets out, you can't get through the intersection for several
	lights, then evening rush hour is the same thing again
304	Traffic backup
305	People not knowing where they are going and change lanes at last second.
306	Left turn going to Lake Road if your coming from NE Everett St. is very difficult especially if lots of
	vehicles coming from the other way.
307	Delays at certain times of the day.
308	It is so backed up it takes triple the time to get where I'm going
309	
	the largest impact currently is when you are turning left off of Lake Rd and are unable to since the
	pedestrian light has stopped traffic. I understand this is for safety but it really backs up travel and I have
	seen too many people get impatient about waiting, then they make poor choices.
	Traffic. Longer than desired wait at lights especially pre and post school times.
311	Overall it's pretty smooth. Big backups during school drop off times.
312	Major traffic jams similar to a large metropolitan city which is where most of the people causing the
	traffic and problems have come from
313	Very high traffic at certain times-related to school it seems
314	Deslama an laba mandurant the mandurance Deslama dissipa Comment With a dissipation of the dissipation of the
245	Backup on lake road past the park area. Delays during Camas High school start and end of day.
315	safety. need turn lane to Camas produce.
316	Slow traffic at times, like commuting hours and when when school gets out.
317	Long waits to turn left primarily from Lake Road to Northbound Everett and vice versa. Seems to be
240	most problematic during school start and end times and 5:00 PM commute
318	Long wait times during certain times of day
319	Long line- back up when coming down Lake, turning into Camas Produce - please provide a turn lane
220	into the store.
320	Delays Safaty, Turning Jane for camas produce
321	Safety. Turning lane for camas produce
322	Long lines at signal

323	Traffic congestion due to Camas High School.
324	
	no problems ever at this intersection, and ive delivered mail on this route. i hate roundabouts though.
	ive been nearly hit many many times in the dumb Washougal roundabouts. if you install that terrible
	looking roundabout, traffic on everett will never stop for lake road tragfic, creating a traffic nightmare
	and many accidents.theres a place for traffic lights, and this is one of them.
325	Please provide turning lane to Camas Produce for people coming from the roundabout to shop at
	Camas Produce. This is a serious safety issue and should not be ignored.
326	
	Traffic gets backed up especially on lake road when there is extra traffic from schools just getting out
327	Please provide safety studies on roundabout use versus traffic signals.
328	Please provide a turning lane into and out of the Camas Produce packing lot.
329	City did not think ahead about moving the high school, increase in population, and the volume of traffic
	on a 2 lane road. Bad planning on the city's part. I suggest widening 500 from Leadbetter rd to 14th and
	making it 2 lanes in both directions. Let's not do the same mistake as the slough bridge over the
	Columbia and say that you are winding it then "runout of money", then settle for 2 lanes again. No
	improvement in traffic flow.
330	
	Safety issue. Please provide turning lane for customers coming the roundabout to Camas Produce
331	Traffic and bad pedestrian & bike access. Dangerous Shoulders.
332	Cross walks not be available around the entire perimeter of the intersection.
333	I have to allow extra time during school hours, but it didn't bother me, since the traffic is fairy short
224	lived.
334	Grid lock at certain times
335 336	Safety- please make a turn lane for camas produce Delays in the morning due to heavy traffic. Weekends and other times seem to be fine
337	There needs to be a turning lane. When traffic is busy, I can't get out of my driveway.
338	There needs to be a turning lane. When traine is busy, i can't get out of my driveway.
330	Safety issue. Please provide turning lane for customers coming the roundabout to Camas Produce". P
339	congestion
_	Traffic, unsafe for pedestrians and bicycles
341	Long wait times. Overall poor planning by those who decide on the infrastructure.
342	Back up when school is let out
343	Long lines at light
344	I live by Camas high School and travel South for work and visit Camas produce for my daily food run,
	current left turn is a pain, wider road with a left Turn to enter Camas Produce would make me feel
	safer, and more parking for the park would be awesome to have
345	it is very conjested
346	Long lines get through the intersection or getting in and out of the parks.
347	At peak times, the light only lets 7 cars through at a time and it's not fast enough. People turning left off
	of Everett onto Lake Road usually cut the corner
348	Walking space is very limited in general
349	Vehicle congestion. Too many vehicles for the area. Bike riders going around vehicles to get where they
	are going faster. This is Not safe for drivers or riders.
350	Traffic being backed up and unable to turn left on Everette from Lake
351	Busy during school commute
352	Long backups during school start and end times.

353	Too many parents drive kids to school instead of using buses provided by school.
354	Certain times of day the delays are very long.
355	excessive wait times during morning school rush
356	Traffic backed up; pedestrian access
357	Extremely congested at school let out time
	, ,
358	Noticeable increase in congestion during school days, before and after school hours.
359	Congestion during school commute is sometimes a 20 min wait
360	Heavy traffic when the high school begins and ends and heavy traffic about 4:30-5
361	Cars backed up on Lake Rd. past Lacamas Lane to get through the left hand lane. Pedestrian/bicycle
	congestion and parking lot overload which creates unsafe driving due to visual obstructions (parked
	cars at intersections)
362	While Camas doesn't really have a congestion problem, this intersection is severely impacted by school
	traffic on weekdays.
363	Waiting in long lines to turn onto either Lake Rd or Everette especially before and after school. Why
	wasn't something done when the schools were built that are causing the traffic issues. Plus all the
	home construction has made Everett a very busy road.
364	Long wait times and congestion
365	At the stoplight, the left turn lane fills up (especially when a bus is present) so that all southbound
	traffic is held up as far back as the intersection uphilla continual problem. Cars wanting to make a
	right turn at light are waiting for as long as 9 signal light cycles.
366	back up around the lodge during school drop off and pick up hours
367	Long delays - backup of traffic
368	Long delays
369	Too much traffic.
370	Too much congestion
371	Traffic
372	
	Long back-ups on Lake. Long wait for left turn from Everett to Lake. People running the light on Everett.
373	No pedestrian crossing at Fallen leaf park entrance
374	500 coming from the north gets backed up
375	Can be very crowded during school arrival and release hours. Also in the warmer months when people
	are using the facilities at Lacamas.
376	too narrow, needs a right turn lane for south bound Everett. Sometimes light is red for my direction for
	long time and there are no cars crossing through green lights
377	Get behind the school kids and it is a long, long wait
378	Back up traffic.
379	Long wait times and traffic backups on Lake Road.
380	Living in the Lacamas Summit development it can be difficult getting on to Everett when the high school
	students are arriving for or departing from school.
381	what ever you do don't put in a round about they are dangerous I have seen first hand accidents on
	those roundabouts
382	Long waits, hard to get out of Round Lake Parking Lot
383	
	Lack of sidewalk for safe pedestrian access. Hard to pull out of Lacamas Park parking lot heading south
	due to long strings of traffic coming from the high school. Large back ups in the morning on Lake Road
	and in the afternoon on Everett due to kids trying to get to and from HS. Difficulty getting to the right
	hand turn lane from Lake to Everett (southbound) due to too many cars wanting to turn left.
	, , ,

384	Getting to school and getting home from school it is very crowded.
385	When approaching from the west on Lake road I find the turn lane for going south often blocked by cars
	wanting to go south on Everette.
386	
	Not adequate enough to handle volume of traffic - long waits at light due to backups, congestion
387	
	I bike through the park and if you hit traffic it takes a long time to cross and go towards lake road
388	Traffic backed up all directions certain times of day
389	Long backups at peak time
390	No problems
391	Traffic backups on Lake Rd and along Everett north of the intersection. 7-9 a.m. and 2-4 p.m.
392	Blinking left turn signal is a great idea
393	Delays due to traffic volume and the light signal cycle.
394	I plan around peak traffic times to avoid congestion.
395	Unsafe for the growing population. Long wait times at lights.
396	congestion from school traffic
397	Traffic jam during school drop off/pick up
398	No issues
399	Too many speeders!
400	traffic backed up before and after school weekdays
401	Traffic and long lines at the light.
402	
	I am retired so it doesn't bother me to wait at the intersection "at this time". My concern is the lack of
	infrastructure in this area for the hundreds of existing homes and the hundreds more in the planning.
	No matter what is planned for the intersection, it will never solve the future problems that are
	inevitable, unless the matter of infrastructure is addressed. That said, I would be more in favor of the
	signalized intersection because the round about seems a bit large and confusing for the area and the
	signalized intersection appears to leave more of the tree canopy to the east. I would hate to lose the
	beautiful forest ambiance.
403	Long backups on Everett heading south and on Lake rd turning left onto Everett.
404	Long waits in traffic during certain parts of the day.
405	Long warts in traine during certain parts of the day.
103	Obviously it gets very backed up before and after school every day. Before I was a school bus driver I'd
	go all the way around the lake via ledbetter because that was still fast than dealing with the traffic
406	Traffic backup
407	Vehicles cutting the corner from Evertt onto Lake Road
408	Traffic is horrible before/after school, as well as during Summer months in morning and late
	afternoon/evenings
409	long delay from Lake to Everett north or southbound
410	heavy traffic, related to High school, Lake road and Everett
411	,
	Cars not entitled to go through the interdection on Everett coming from the North drive through the
	intersection against their red light when they see northbound cars are turning left on their green arrow.
412	Heavy traffic at times. Especially when everyone is heading to the high school
413	Long delays heading from lake to southbound on Everett due to long line of cars in line to turn left onto
	northbound everett.
414	Crowded, long lines
<u> </u>	

415	Congestion
416	long traffic queues eastbound and southbound into the intersection
417	traffic
418	Long waits during busy commute times.
419	
	Long waits for lights lots of traffic thanks to the schools and neighborhoods being put out here
420	Long wait time to get through light
421	At release time for CHS, I have frequently experienced extremely congested, slow traffic.
422	Hard to turn into produce store . Needs turn lane . Long line from lake road to 500
423	Back up of traffic during high school start and end
424	Long wait times during peak times
425	Crowded; long lines at light
426	the line up of traffic is horrible, and it is a dead stop. I have almost been in an accident because the
	traffic is stopped without any warning.
427	Congestion, poor access to & for parking in the area, delays
428	Traffic delays and congestion
429	Turning left/right on Everett Am/pm with school traffic
430	long lines turning south onto Everett from Lake Road eastbound
431	Major traffic back up at light
432	Many vehicles, long waits, difficulty getting into right lane to turn right, failure of vehicles to wait for
	pedestrians, risky left turning for bicyclists
433	Traffic at school travel times.
434	Lots of congestionespecially with school events and start/stop times of school
435	Traffic backed up when school is starting or ending
436	long lines at times
437	Terrible for pedestrians and bikes.
438	Mainly crossing as a pedestrian or bike rider. Going S. from the intersection on Everett there is not a
	good way. Traffic can be a little backed up as well.
439	Backups during busy times of the day
440	Traffic backs up all the way to CHS after school lets out. Traffic is backed up Lake Rd before school and
	during rush hours. I often use alternative routes which are longer, just to avoid long waits to get
	through the light.
441	Long wait times at the light when High School is about to start or end.
442	I have no issues with this intersection
443	
	When coming into Camas on Lake Rd. and trying to turn right there is a massive pile up because the
	right hand lane is blocked when more than 3 cars are in the left hand turning lane.
444	Hard for bikes and walkers to cross
445	S bound Everett gets very backed up - most of the traffic turns right onto Lake Road, but because the
	turn lane is so small, they must wait at the light with the rest of the south bound traffic. This is also an
	incredibly unsafe intersection for pedestrians, especially during the summer with high traffic flow and
	high pedestrian usage. Needs to be a better separate pedestrian path from round lake parking to
	lacamas lake parking.
446	Lane needed to make right turn from Everett onto Lake
447	Backed up on a regular basis in General, especially during CHS hours. Cannot turn right onto Everett
	from Lake Rd when congested.

448	Traffic backs up before and after school. The intersection also lacks sidewalks as a walker heads
	towards downtown Camas on 500, which can be dangerous for a walker.
449	Left turners cutting corners, all running red lights (true of all intersections not just this one)
450	
	excessively long lines of traffic, especially when the schools get out. Lots of potholes everywhere!
451	Traffic can be backed up almost to the Lake Point neighborhood at times on Lake Rd. Causes you to be
	late to events.
452	It gets extremely backed up during the schoo commute—both to and from.
453	extensive congestion in morning and afternoon
454	Long lines. Long waits. Speeding on lake road.
455	Traffic back up. School related.
456	There are only issues during school-related events (when school is starting or getting out, or big events
	held at CHS).
457	Alway backed up and difficult to get through while school is starting and over
458	Major delays during school start/stop times. I try to avoid making appointments that require travel thru
	this area (N shore is my only other option) during these times. Also the park parking lot does not serve
	its needs. Move it to Crown Road !!!
459	Complete congestion during high school pick up and drop off
460	Long waits, especially before and after school.
461	During High School Start/End times the traffic is horrible. Also during high summer the amount of
	people going to the lake increases. During rush hour there are also more cars coming from Lake Rd
	which can back up pretty good.
462	The turn lane is not long enough to hold all of the vehicles which creates a huge backup very quickly
	when traffic is heavy.
463	
	Traffic backups during mornings and late afternoons when driving on Lake Road headed toward Everett.
464	Clogged during HS drive times and big sporting events
465	Congestion
466	Currently the intersection is fairly safe for all users. Traffic does seem to back up more than what I'd
	expect for a town of our size.
467	That the road is always being worked on.
468	Too much traffic and speed!
469	Traffic bottleneck and biking walking between heritage and lacamas park
470	Traffic backs up. Trails need connections so pedestrians don't walk on road
471	Nothing is wide enough for capacity needed.
472	Taking Left from the Round Lake parking lot can be tricky with intersection and cars/traffic heading
470	south on Everett.
473	Tremendous backup particularly at times when school is starting/ending
474	It gets super backed up with students before school and after.
475	Traffic buildup, needs better pedestrian access.
476	Grid lock during school hours. Feels unsafe to use exit park.
477	Long wait time to get to CHS in the morning!! Long wait!!
478	Only feel effected at high traffic times. A bike path or sidewalk seems would be helpful
479	Bottle neck at stop light. Long waits to turn North from lake road onto Everett
480	Lake Boad should be widehed so you can take a right ente Everett when waiting at the light
404	Lake Road should be widened so you can take a right onto Everett when waiting at the light.
481	General congestion

482	Heavy congestion
483	Long delays and back-ups to the Heritage Trail parking lot or north half way to the light at the high
.00	school, people running red lights
484	Depending on time of day, it can be pretty bad.
485	Long delays mornings and evening
486	backup of traffic up Lake and up Everett during peak hours
487	None really
488	Very busy. Risk for accidents due to speed, visibility, and need to cross traffic to turn on to Lake from
	Everett.
489	
	Ridiculously long backups during school start and release times or special events at the high school.
490	Long traffic lines, waiting for light to change
491	Excessive delays when high school lets out
492	Too much traffic. And when people crossing no traffic is moving. Lake road needs a lane to turn right
	but the left turn lands is backed up. Student drivers.
493	Too much backup on to Lake Road & Everett during peak hours
494	Long waits.
495	Traffic congestion
496	Traffic back ups;
497	Hard to turn right when heavy traffic going left from Lake onto Everett
498	Congestion
499	I did not feel safe walking along the street where there was no sidewalk. The cars speed around the
	turns.
500	Traffic backed up halfway around Lake Rd during certain times and very limited parking by Round Lake.
	Hard to pull out left from the first neighborhood across from the auto repair shop when there's traffic.
	No safe walkways!
501	
	Long wait to get thru intersection, usually due to chs traffic, occasionally due to work commuters
502	Congestion, tight spacing
503	Long delays during commutes and other times
504	I grew up in camas and cannot think of a time I've ever had an issue there.
505	In the mornings and evenings the traffic backs up onto Lake Road and it can rake up to 20 min to get
	thru the light.
506	Back up down lake road because of the turn lanes at the light
507	NO ROUNDABOUT Please!
508	The traffic is really backed up do to the high school traffic
509	Extended traffic & safety
510	Congestion
511	To ffee the short of the soul seed of the
	Traffic will get backed-up frequently as students, teachers and parents travel to Camas High school in
F43	the AM, during lunch break and again when school lets-out in the late afternoon
512	Congestion
513	long backups at the light, used get stuck twing to take my daughter to the high selectional back
F14	long backups at the light, used get stuck trying to take my daughter to the high school and back.
514	Extreme congestion, walking light that lasts too long, left and right turns onto Everett are often blocked
	by an excess of cars turning the opposite direction

515	Long waits during school hours or after 5:00 pm. It can also get super busy with pedestrians during the
	summer months.
516	Long backups
517	There aren't enough lanes to handle the amount of cars using the road on a daily basis.
518	
	Difficulty crossing as a pedestrian in a safe manner. Long back ups when I drive during rush hour
519	Congestion during summer
520	Traffic backup at light
521	When sitting at the light to turn left onto Everett, vehicles making a left turn onto Lake Rd. try to cut the
	corner too close and nearly hitting the front end of the first car. If there were a way to change the lines
	or something to have those drivers take the time to make a wider turn and not cut the corner would be
522	good.
	traffic stopped not moving
523	Lots of traffic during hs start and end time
524 525	Long, long lines
525	Really busy certain times of the day. So I plan my activity around that. Same as going to Portland.
526	I avoid the intersection during peak school hours or during high school events, but I would otherwise
320	use the intersection 7-14 x /week if the traffic flow was more predictable. Also not a safe bike/ped
	corridor
527	Huge backups at start and end of school. Almost impossible at times to make left turn from side streets
327	- 21st during those times
528	Red light runners; congestion; bicyclists; pedestrians
529	Back up during school starts & ends
530	With one lane in both directions, the line of cars backs up past 43rd during key travel hours
531	traffic lights cause a gridlock back up at certain times
532	Traffic is horrible at several times of the day. With Camas High School and all the new houses that
	have/are going in there was not enough planning done ahead of time.
533	Occasional backups
534	excessive wait time during school start and end times.
535	
	Long backup in the morning and at pm rush hour. Pedestrians, bikers, runners are becoming a hazard
	when they don't use the cross walk. Pedestrian crosswalk causes more delays to traffic because all
	directions are stopped. Need bridge for pedetrians and bike lanes.
536	Backed up traffic
537	Everyday before and after school (Camas High School) this intersection becomes extremely congested
	all the way down Lake road.
538	
	Too blind. People speed to make the light and coming from the lodge shoot through the curve turning
	left with reckless disregard. Also the second road you can turn off (38th) isn't a smooth turn off and can
	cause traffic backup. Speeding cars on your tail force a tight right turn, coverings into an oncoming car
	inching forward because the street is obstructed by power pole or parked cars for those turning left off
F20	38th onto Everett/500 so they inch forward which creates more collision risk
539	Likely consistent with other responses I've experienced traffic congestion, long back-up on Lake and
F 40	Everett St. This results in aggressive driving styles and frustrated people.
540	Not easy for pedestrian use. Causes lots of jaywalking
541	At odd times of day, traffic back-ups occur

542	Lights not working. Back up during after school hours
543	High traffic
544	Long wait times
545	Long wait times at the light
546	Major congestion's at certain times of the day
547	Works fine, can't imagine why you would want to waste taxpayer dollars on an intersection that works
	fine when you have SO many other issues that truly need attention and are currently exposing citizens
	to danger
548	Very long wait along Lake Road at high traffic times. When running through that intersection, drivers
	often don't pay close attention when turning right onto Lake Rd and will nearly hit me or running group
	members.
549	Only one lane trying to turn left onto another single lane road, backs up cars almost to Sierra. Makes
	kids late to school.
550	Traffic backs up with school hours
551	at peak hours (school pick up/drop off hours) the traffic gets so backed up also the wild life have been
	startling at times
552	Poor timing of lights and back up of traffic during peak commuting hours
553	
	no turn lane traveling south when turning right on Lake right from Everett/500. Also back up of cars on
	Lake Rd prevents those turning right onto Everett/500 from doing so when light is red.
554	Large backups and unsafe conditions for pedestrians.
555	My biggest concern is past the intersection towards the bridge- people are parked everywhere and
	jutting out- a lot of chaos.
556	Turing to take many come to manage and at the district of della been about a bellevaing with all the bigh select
	Trying to take my son to preschool at the district of daily has been challenging with all the high school
	traffic. Lake is completely backed up and trying to cross Everett is just a feat in itself.
557 558	Traffic that backs up in all directions. The road is not wide enough, traffic is heavy at times of the day and backs all the way up Lake Road,
336	and I don't think it's safe for walkers were runners on the side of the road.
559	and ruon t think it's safe for warkers were runners on the side of the road.
339	LONG LINES, no turn lanes to turn right from Everett onto lake road or any for that matter. No bike
	lanes - very narrow roads, especially when backed up, very unsafe. LONG LINES affecting travel time.
560	CONGESTION!!! Also on warmer days the increased number of pedestrians walking along the
	road/crossing where there is not a designated cross-walk
561	Long wait lines when the high school lets out. I do not like round abouts
562	A very long back up during school times and school events.
563	horrible back up just trying to drive from one school to another at specific hours. This forces me to
	drive through neighborhoods, the long way around
564	Long wait times.
565	Long wait times when nearby schools are starting the day or ending their day. Occasionally, someone
	will run a red light.
566	Long lines at the stop light.
567	Long wait times
568	Huge line-up of traffic on Lake Road
569	Signal transition is long. Lack of sidewalks is dangerous. Traffic congestion is horrible.
570	Long waits in the mornings and evenings
3,0	

571	
	Huge back ups during commute times (am school start, afternoon release, and evening work commute)
572	Large backups coming down to the intersection from lake rd.
573	Too much traffic.
574	Intersection gets backed up during rush and school transit times.
575	Traffic gets really backed up in an attempt to get to the high school.
576	
	I really haven't experienced many troubles. On my way home from work, sometimes I have to wait for a
	light cycle, but other than that, I usually don't experience any slow downs or problems.
577	School time is a bitch
578	Major back up
579	Traffic and long wait times at light
580	Not enough space to right turn when traveling south on Everett and turning onto lake. The crosswalk
	signal supercedes turning left on Everett from lake, causing significant delays on lake. Signalling seems
	to be slow and no responsive to increased traffic.
581	Long waits. Unsafe. The state should help pay for any improvements
582	takes too long coming down the hill on Lake and also turning onto Everett from any side streets during
	peak times can be sketchy
583	
	Long lines if traffic during school and work commutes. Hazardous responses for emergency vehicles
584	Long wait times coming off of Lake and turning left
585	When I walk or jog , I do not feel safe since there is no sidewalk
586	Waiting for walkers/bikes to cross street before I can turn. The right turn onto Lake coming south on
	Everett is a bit sharp.
587	Traffic delays and backup
588	Traffic can be high in that area.
589	Long wait times through the intersection. Cars backed up forever
590	long lines on lake road to get through the lights
591	Long waits, backups.
592	No sidewalk, no lanes to turn right
	awful back up at peak times
594	Long waits in the morning
595	big traffic back up and delays
596	Bottleneck during high school release times and in the evening when Lake Road backs up.
597	A lot of drivers aren't looking for pedestrians in the crosswalks before making a turn. I've seen quite a
	few bicyclists and pedestrians nearly get hit, as well as the risk of a car collision from sudden stops.
598	It gets very backed up before and after school between the two stop lights.
599	CHS events often result in back-ups all the way up to Sierra!
600	well on my way back home from work leaving the high school the congestion is so bad most of the
500	drivers are making a right turn. road is to small for how busy it gets. it should be three or four lanes at
	least
601	People not paying attention
602	backed up traffic
603	Huge line of cars backed up on lake road waiting for light, if you want to turn right you have to wait for
	the cars turning left to get green light because of backup
604	Long delays. Traffic really accumulates during specific periods of the day.
	, , , , , , , , , , , , , , , , , , , ,

605	Lack of pedestrian facilities
606	Very long walk signal for joggers/bikes
607	long line of cars waiting for light to turn green on 500
608	Lack of continuous sidewalk connecting parks and trails
609	Long waits when the high school has gotten out.
610	Long waits
611	Heavily congested. Long wait times. Unsafe pedestrian crossing.
612	busy around high school beginning/end times
613	Extreme traffic back up when headed south
614	Bad traffic at certain times of the day
615	Pedestrian crossings and cars not watching for those pedestrians
616	
	The traffic light backs up during times when people are trying to get to the h.s. or leaving the H.s. AM
	and PM. Also, I work for the school district and cannot get to after school meetings on time if I go that
	route. I teach at Fox and if I need to be at the H.S. or ZAC- I don't have enough timeIf I get out at 2:40
	and trying to make a 3:00 meeting-it is stressful. Problems I've had specifically are turning left off Lake
	Road and going south on Everett. Wholly inadequate infrastructure. Trying to get into Lakeside, houses,
	other businesses or the park during high traffic times is too hard and unsafe. No sidewalks or walking
	paths along that road. Are their bike paths?
617	Traffic congestion/delays.
618	Delays at the intersection due to cars heading straight instead of turning. Lights do not change due to
	me being on a bicycle and unable to trigger the system to change.
619	Congested.
620	Heavy traffic with wait lines
621	Long back ups. Getting stuck behind cars turning left from lake to Everett when I go right.
622	
	- long delays due to being a bottleneck in and out of residential subdivisions, especially around school
	bus time or road construction Inadequate/unsafe bicycle/pedestrians lane/sidewalk Short distance
	visibility of the traffic light when going north Limited left turn lane merging from Lake rd.
623	Backs up too far
-	Slow traffic
625	Long wait times getting through the light
626	Congestion on Lake
627	Long back ups on Lake Road approaching the intersection. Inability to turn right when there a long back
	lups
628	Large volumes of traffic related to school start and stop times
629	It only has back up issues when school is let it. I think it would be more helpful to have more ways
	leaving the school.
630	
	Red arrow. I grew up learning it's illegal to go on a red arrow but everyone treats it as a yield.
631	Long wait at light to get to CHS
632	Huge backups
633	Long back up can't turn right at light
634	Horrible traffic
635	Terribly backed up during school start/end times and summer time (recreation at or by the lake seems
	to back traffic up too)
636	Bikers and traffic in the morning because of schools

637	Delays on Lake Road traveling west. Too long of ped crossing timers.
638	Traffic backed up lake road
639	
	During summer, the Lake would become very crowded with cars parking on both sides of Everett which
	can cause heavy traffic at times and also poses danger to both pedestrians and drivers as well.
640	No right turn lane onto Lake Road (headed south). Backs up terribly when high school let's out. Need
	free righturn and merge lane when turning right from Lake Road to Everett.
641	Terrible bike routes here, broken glass, terrible bike lanes. Need bike path along hwy 14 to vancouver. I
	bike to E vanc businesses instead as Camas bike access is terrible
642	
	Long backup to turn left onto Everett from Lake. Right turn lane gets blocked by all the left turn traffic.
643	Long lines and delays
644	Heavy Traffic and slow flow due to business of pedestrians and cars
645	Long waits during peak travel time
646	Traffic, distracted bikers, distracted drivers, long waits.
647	Waiting to turn left onto 500 (from lacamas lane). And waiting to turn right onto lacamas lane (from
	500)
648	It takes a long time to get through the light when the high school is starting or ending. There are no
	sidewalks. The area is generally unsafe for pedestrians and children, which is sad since it is on the way
	to school, parks and recreation areas. Connecting round lake, fallen leaf lake, and Lacamas Lake area
	trails would be amazing! A side walk or boardwalk along the south top of Lacamas Lake would be
	amazing.
649	Safety when walking/running/biking by myself and with children.
650	Really long wait times after camas high school releases for the day
651	I can't turn right going into Everett when I am like the 4th car back. I can't go around due to the cars
	blocking. There should be a longer turn lane!
652	Traffic congestion, not safe for pedestrians nor bicyclists
653	Traffics backed up in the morning before school or after schook
654	Traffic backed up in every direction several times a day. Also, unsafe for pedestrians.
655	Increased backup during high school commute time.
656	It backs up a lot during High School release times. Left turn off Lake backs up and those who are turning
	right can't get through which causes more back up of traffic.
657	Long wait times to clear the traffic on Lake Rd.
658	Waiting at a red in the middle of the night with no one around
659	Regularly congested
660	Decreasing LOS during rush hour
661	Traffic backed up at the light but creating traffic jams as traffic continues to build at the light (during
	school year)
662	Morning and afternoonschool traffic
663	The intersection light needs to be improved for the flow of traffic coming and going during school
	release hours.
664	Traffic
665	15 minute wait, witnessed several fender benders, always fearful that someone is going to come flying
	around the corner and rear end me while stuck in traffic
666	The lights are set on timers instead of sensors.

667	
	Coming down Lake in the morning or after work in the evenings, the left turn lane is small with little
	room for those individuals turning right so the entire lane can back up, sometimes to Sierra. If the right
	turn lane was expanded to past the community center, the flow of traffic would be greatly increased.
668	Traffic on Lake Road
669	Pedestrians and parking in the area during the summer months. Safety is a concern for crossing &
	visibility. Backup during school starting and ending.
670	There is not a good time of day when this intersection is not busy
671	
	Long lines and no way to take a right onto lake with our waiting in the line. Ancillary streets stuck for 10
	minutes (minimum) trying to merge into Everett. Lights are way too random in how long they stay on
	green /yello/red. Very dangerous for pedestrians and bikers, with no real shoulder.
672	Traffic back ups. High school and commute times.
673	Traffic does back up during bus pick up and drop off times. The increase in traffic from parent drop off
	also contributes to the congestion.
674	
	traffic backs up in evenings due to turning lanes being too short, not enough room to get into lane
675	Extreme backup during school transportation hours! It was also a mess when they were doing
	construction on the bridge this summer!
676	Backed up traffic on school days when CHS begins/ends the day
677	Turning the right curve, on-coming traffic, icy conditions, long lines of traffic
678	Long Que lengths caused by left turn blocking the right turn lane.
679	
	Congestion. Cars parked on the sides of the road during the summer months. Back-ups due to traffic.
680	Congestion between 7am-9am and 3pm-6pm
681	Lights are not synced to deal with traffic at busy times of day.
682	Long wait to turn off lake road. Safety for runners, not a lot of space for bikers either
683	Long waits, no to little shoulder
684	Long back ups when the high school lets out.
685	No sidewalk
686	
	There almost always seems to be a backup of cars, and unsafe conditions when trying to turn.
687	Lots of traffic when trying to turn right into Everett off of lake.
688	Delayed light to turn north when pedestrians are using
689	Long backs ups of vehicles, especially after the high school lets out in the afternoon.
690	Crowded
691	Obviously the back up during am/pm school times.
692	Traffic back up
693	Traffic congestion
694	Wait times are excessive at certain times of day. Pedestrian crossings with the light take a long time.
	People parking on the roads during certain months is also very problematic.
695	Lots of traffic especially during school opening/ closing.
696	Traffic backed up all the way up Lake Road at Rush Hour. Slow downs on Everett during school drop off
	time.
697	long wait to turn. narrow intersection.

698	During peak rush hours it can be backed way up all the way to top of lake road by UL/Leadbetter
	intersection area. The lanes are too narrow and right turn lane from Lake Road to Everett is so short it
	is ineffective as is. Cant get around people waiting to turn left most of the time. Just a bottleneck with
	single lanes.
699	No side walks!!!!
700	Excessive traffic, especially during CHS start/end time.
701	Long back ups
702	The lines backing all the way up Lake Road.
703	backup at Lake Road around beginning and end of CHS school day
704	Traffic backed up to lacamas shores
705	Congestion with prolonged waits
706	Backed up traffic all the way up the hill
707	Traffic back up at school dismissal time.
708	Light changes take a while to change
709	Very congested during CHS school opening and closing. Too many kids being driven or driving to school
	when they should take buses!
710	Long wait times at the light
711	Long lines of traffic. Lots of pedestrians, especially in summer, walking paths and crosswalks dont seem
	the safest
712	
	Severe backups during school hours due to the lack of a right turn lane from SB Everett onto WB Lake
	Rd. At least half of the traffic at this intersection is making a right-hand turn onto Lake Rd. Enabling this
	access would greatly improve traffic flow through that intersection and reduce the current backlog of
	traffic that is currently experienced every day during the work/school week. Additionally, there is poor
	pedestrian interface if you're running from the trails around Round Lake to the Heritage Trail. There is
	also poor accessibility for those using mobility-enhancing devices such as walkers or wheelchairs.
713	Currently during peak times related to CHS start/stop times or events, it may take 4 or more light cycles
	to get through the intersection.
714	Long backup certain times
715	Long wait at intersection. Speeding and driversbot paying attention to pedestrians.
716	Congestion coming down Lake road toward Everett. I've seen it back up past Lacamas park. Also, the
	right arrow on Lake Road should turn green when the left arrow on Everett turns green to turn onto
	Lake road.
717	Long back ups. Additional lane or right hand turn lane going from Everett to Lake would be helpful a lot
	of congestion w recreation visitors and parking for the lake and parks.
718	Very long lines of cars stuck at the light. Both from lake road and Everett from the high school and
	Livingston mountain area.
719	
	Gets very backed up in the mornings and evenings - no real turn lane which backs up the rest of traffic
720	Long waits during school time.
721	I live on 35th and often have to take a left onto Everett, which can take a while, depending on the time
	of day.
722	A lot of wait time at the lights because of the amount of traffic at certain times of the day
723	Congested and long line waiting for light on Lake Road, especially morning school time.
724	
	Heavy congestion, especially heading eastbound not being able to see stopped traffic around the bend
725	Backup of traffic.

726	Getting backed up on Lake road, traveling east towards Everett
727	Traffic congestion in the summer afternoons, seems to be correlated to number of pedestrians using
	the crosswalk.
728	Long wait times at the light.
729	Always backed up especially before and after school.
730	Traffic jam
731	Driving down NE Lake road towards the intersection and trying to make a left onto NE Everett. It's
	usually backed up from pedestrian traffic.
732	Same as everyone else - long backups during high traffic periods.
733	Waiting through several lights.
734	Soul-crushing backups
735	
	Drivers rolling across the crosswalk against red lights endangering pedestrians (me and my son).
736	Extremely congested
737	Turning north onto Everett from Lake - long backups
738	I've only noticed an issue w/the intersection when CHS dismisses
739	Heavy traffic during school transitions
740	Wait time but I'm ok with waiting.
741	
	Long waits at Everett to Lake Rd when Camas High lets out and long lines from Lake to Camas High in
	the morning. That can make my son late for school on bad mornings. We have planned accordingly, and
	often go left out of CHS to Crown and down to 3rd just to get around it altogether. It's just such a
	difficult spot with busses and parents and students all pouring in and out through here.
742	No round about
743	Can't handle traffic and bad light setup.
744	Long wait times.
745	Severe traffic jams, family member had a car accident, being cut off (almost hit) by a car when I was
	walking.
746	Can't turn right because of backup of drivers turning left on Everett. Need a wider area to pass left
	turning cars
	Major back ups during peak hours
748	Heavy traffic before school hours and after school hours. Also heavy traffic during peak travel hours 3-
	5ish
749	Backs up terribly on Lake Road at start time and other activity times at the high school.
750	Long waits and backups
751	Usually on Lake, if taken during certain times, long lines. Avoided by going the other route via Forest
	Home to Everett. For to and from CHS.
752	I haven't experienced any issues
753	There is so much traffic there are times we can't leave our house its so bad. We are worried with a
	roundabout it will make it so there is even less of a break. I have see people on more the on occasion
	trying so hard to not let people out of there driveways they ended up rear ending the car in front of
	them. My kid wait for the bus on this road and people run the buses stop sign because the traffic is
	already so bad. I could go on all day with everything wrong with the road, traffic, unsafe, no side walks
	etc.
754	Extensive traffic, unsafe pedestrian crossing
755	To much traffic back up. Very unsafe interaction for cyclists and pedestrians.

756	The traffic can back up very quickly if a couple cars are waiting to turn left onto lake road and there isn't
	no space to turn right.
757	Congestion, wait time at light, speeding.
758	Flashing yellow left turn signal can be dangerous. Traffic backs up really far on lake. There's not a clear
	area for pedestrians. Parking gets jacked during summer.
759	Afternoon heavy traffic from the high school backed up at the traffic signal.
760	Not safe to cross. Long lines of traffic.
761	
	The left turning lane (from Lake Rd) chokes up the right turn possibility. Lane is too short. Also, not
	everybody knows they can turn right at red light. Especially when cars are turning left from Everett Rd
	and ongoing traffic is stopped (there is no green arrow turn light) Sensors are not sensing properly the
	amount of cars waiting at lights, therefore they don't adjust to traffic flow.
762	Congestion
763	Traffic back up
764	Traffic backed up onto Lake Roadand on Everett too
765	Long traffic lines during morning and evening peak commute times. Hard to cross the road when
	walking between lakes.
766	Long waits travelling N/S, poor visibility to south bound traffic from Lake Rd, very scary from a
	pedestrian and bicyclist perspective, insufficient bike lane and sidewalk, and on summer days the foot
	traffic of people recreating can cause dangerous traffic conditions.
767	Long wait/light times usually during peak school hours
768	Heavy traffic before/after school and at 5 pm
769	Long long LONG lines during school release/ drop off/ pickup.
770	Traffic backs up at the light, sometimes to astonishing distances especially on Lake Road and
	southbound Everett.
771	Long wait during inclement weather; Scary to walk from Lacamas Lake to the parkonly did it once and
	would avoid it in the future;
772	Now have a section and the device and the section of the section o
772	Very busy at certain periods of the day, especially around school start and end times, backing up traffic.
773	Long wait times depending on school schedule Extreme traffic
775	The backups at the lights
776	Backed up at the light Backed up traffic down Lake Rd
777	·
778 779	Long wait times Traffic backed up
780	Back up of traffic at peak hours
781	long wait times at the light during high traffic hours
782	delays during High School start times
783	No sidewalks
784	The lines heading east are way too long.
785	Long delay to go downtown at given times of the day.
786	Back up and congestion
787	Very long lines, abundance of pedestrians wandering around on warm, sunny days.
788	traffic delays, can't turn left from the round lake parking lot
789	Drivers going too fast with pedestrians moving around. Drivers making u-turns looking for parking.
	Drivers running red lights. Cars backed up for miles.
	,

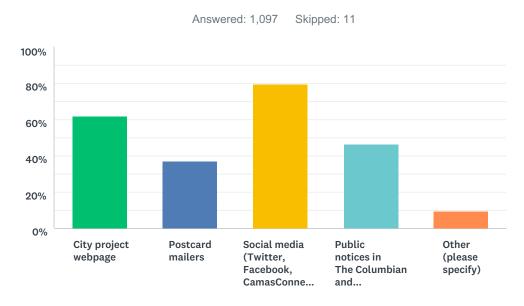
790	Summer traffic severely impacted by pedestrians on hot days. Traffic impact during start/end time for
	high school.
791	Wait time
	I avoid Everett in the morning and afternoon. The HS traffic is terrible. Overcrowded school makes for
	overcrowded streets.
793	No safe way to turn left on Everett while on a bicycle. Waiting to turn right on lake road going south on
	Everett because of backed up cars.
794	long back-up on Lake road, confusing yellow light arrow on Everett, poor space for biking and
	walking/running.
795	Lake Road backs up during morning for high school & also in the evening for everyone going home from
	work. Also, so people still don't understand the blinkimg yellow arrow.
796	Long backup and wait to get thru light before/after school start/release
797	Cannot turn south on Everett cuz high school traffic backs it up so much you can't get to the
	intersection.
798	People trying to cross street
799	Making safe left turns while on a bike.
800	Congestion
801	Sitting at traffic backed way up the road past the park.
802	traffic backed up
803	Traffic backs up
804	Traffic congestion
805	People not understanding how to use a yellow light and turn. People not moving all the way into their
	lane to allow those turning south onto Everett from Lake. And it would be great if the intersection was
	polluted with all the signs for community events.
806	Traffic can get backed up when school is let out and during afternoon commute times.
807	Traffic backups beyond 35th Ave make it very difficult to enter Everett from 35th.
808	Trouble in the summer when everyone is at the Lake. A long wait when the high school starts and gets
	out each day.
809	Very busy and backed up at times.
810	Backs up
811	No issues
812	From Lake Road to Everett - long wait times during peak hours. Dangerous for pedestrians
813	Cement Trucks, that should use other roads. Intersection gets busy at rush hour times, garbage trucks
	block traffic and cause further delay.
814	Certain times it backs up, making it difficult to make a left from 35th
815	Traffic delays due to volume.
816	Long waits especially around school time.
817	Traffic heavy at CHS open & close
818	There seems little space for pedestrians to cross safely.

Q6 Below are broad categories of criteria for reviewing the two concepts for intersection improvements (shown above). Please rate their importance to you from 1 (highest importance) to 5 (lowest importance). Rate as many criteria as you like from 1 to 5.

Answered: 1,108 Skipped: 0

	1	2	3	4	5	N/A	TOTAL	WEIGHTED AVERAGE
Reduce traffic congestion	59.04% 650	13.08% 144	8.45% 93	5.18% 57	13.90% 153	0.36%	1,101	2.01
	650	144	93	57	153	4	1,101	2.01
Improve traffic safety	47.89%	17.34%	14.22%	7.61%	12.39%	0.55%		
	522	189	155	83	135	6	1,090	2.19
Avoid impacts to the bridge north of the	16.23%	14.34%	28.49%	14.62%	22.17%	4.15%		
intersection	172	152	302	155	235	44	1,060	3.13
Minimize impacts to wetlands	25.88%	18.25%	19.74%	12.10%	22.25%	1.77%		
	278	196	212	130	239	19	1,074	2.86
Minimize impacts to trees	26.97%	18.72%	19.28%	12.60%	20.76%	1.67%		
	291	202	208	136	224	18	1,079	2.81
Minimize impacts to adjacent property	18.32%	15.79%	27.29%	15.70%	20.09%	2.80%		
	196	169	292	168	215	30	1,070	3.04
Accommodate pedestrian and bicycle access	34.62%	23.63%	18.04%	10.07%	12.91%	0.73%		
	378	258	197	110	141	8	1,092	2.43
Provide access to adjoining property	15.74%	16.87%	26.86%	16.12%	17.06%	7.35%		
	167	179	285	171	181	78	1,061	3.02
Provide a functional and aesthetic design	26.15%	22.56%	22.84%	12.43%	14.09%	1.93%		
	284	245	248	135	153	21	1,086	2.65
Reasonable construction schedule (within 1 to 3	42.75%	20.87%	14.77%	8.03%	12.65%	0.92%		
years)	463	226	160	87	137	10	1,083	2.26
Maintain traffic flow during construction	54.04%	15.90%	11.12%	5.42%	13.14%	0.37%		
	588	173	121	59	143	4	1,088	2.07
Overall cost of the project	20.83%	19.17%	30.65%	13.24%	13.43%	2.69%		
	225	207	331	143	145	29	1,080	2.79

Q7 There will be many informational updates and participation opportunities during this project. What do you think are the best ways to keep everyone informed about these updates and opportunities? (Select all that apply.)



ANSWER CHOICES		
City project webpage	61.99%	680
Postcard mailers	36.92%	405
Social media (Twitter, Facebook, CamasConnect app)	79.31%	870
Public notices in The Columbian and Camas-Washougal Post-Record	46.67%	512
Other (please specify)	9.57%	105
Total Respondents: 1,097		

There	will be many informational updates and participation opportunities during this project. What do
	nk are the best ways to keep everyone informed about these updates and opportunities?
-	(please specify)
1	Signboards
2	Signs posted near that area.
3	Email
4	Next Door app
5	Signs at the intersection, directing people to the city project webpage, social media
6	Update notices in Prune Hill Next Door
7	The notification should say that the city is not planning on constructing a roundabout in this area
8	River Talk Weekly
9	mailed newsletters
10	NextDoor neighborhood emails
11	email updates
12	Links posted in next door camas
13	Instagram
14	Email distribution
15	Emails
16	Next Door
17	Email, NextDoor postings
18	Email group if you wish to join.
19	Signage at parks next to site; Round Lake & Lodge
20	The billboard posted at the intersection now is great!
21	Email
22	Neighborhood app
23	Signage
24	email distribution list - this worked well with the BPA project
25	
2.5	Please use all available lines of communication so as many residents are informed as possible.
26	Email list
27	Send info to Camas High School for distribution to students/staff
28	Nextdoor The school district could cond out a message, as they have a list of high school students and families.
29	The school district could send out a message, as they have a list of high school students and families that will be impacted.
30	Project website that you share on social media
31	Email to interested parties
32	Automatic emailers
33	Email group for those that sign up and website
34	Websites such as this one (Livingston Mountain)
35	Opportunity to meet with decision makers
36	Nextdoor
37	Personal communication to all the residents who live in the area on what is going and what kind of
	impact it will have on their daily use of using the roads to go around from school, work and life in
	generaly.
38	Sending news through CHS to keep students informed, since the intersection impacts nearly all CHS
	students
39	Nextdoor app
-	•

40	National real constitution in the great transfer is a six or the latest transfer in the six of the
40	Notices/releases in the small weeklies ie rivertalk weekly, lacamas magazine. Also, signage at the
41	intersection as was put up for the public meeting
41	Signage at construction area Email
42	
43	Everything you can.
44	Nextdoor
45	Instagram. A quick update with a picture of the progress would be a nice reminder as the process continues
46	Email blasts
47	Postings on Camas Library bulletin board
48	News print
49	Email updates
50	Email
51	[This comment is included in the responses to Question 8] #8 Isn't letting me write a comment and is
	only accepting "no Comment" box check. My comment for #8 is that I like the roundabout solution as it
	will accommodate the growth that is already in action in our town and the traffic is only going to
	increase
52	an email listserve that we can sign up for to get periodic updates
53	No paper communication please. Digital only or public posting like city hall or the library.
54	NextDoor
55	Opt-in email
56	https://lacamasmagazine.com/
57	Further meetings
58	Email
59	Signage like current one at that location
60	emails
61	email option - residents can opt in if they'd like
62	Email
63	Sign at intersection
64	The sign that was installed on Everett could have a section that gets an updated when new meetings
	are scheduled.
65	Nextdoor app
66	Non-Camas social media - Nextdoor, Instagram - it is extremely important the City goes to the citizens
<u></u>	where they consume media. Don't make them only go to the city channels.
67	Nextdoor
68	email notice opt-in?
69	next door
70	Post signs in neighborhoods & main streets.
71	Updated meeting signage at intersection
72	next-door app
73	Email for those who opt in
74	NextDoor
75	Nextdoor NW
76	NextDoor
77	an email list where people can sign up with their email to receive updates

it's readable for pedestrians, not drivers) that updates progress. Maybe for drivers a large, roughly recognizable "thermometer" style progress bar signage that updates (I.e. 50% complete. Projected finish: July 2020 79 Smoke signals 80 Signage at intersection was great to let me know about the info meeting. 81 Through the School District like this as well 82 Camas High School 83 email list 84 email 85 Nextdoor app, which is how I saw this survey was available 86 Email 87 Opt-in e-mail list 88 Online Camas-based magazines. 89 Email 90 Email 91 Road signs 92 Text message notifications for bulk groups. Similar to the schools process for notifications. 93 In person updates at town meetings 94 Public Alerts 95 EMAIL!! Continuing to update the sign currently placed at that intersection with the next steps so that the public can know when to check in. 96 Text 97 Email updates? 98 Email (people can subscribe) 99 Signs at the intersection 100 Email 101 Public meetings or hearings with project managers. 102 Signs hung up around town (Crown Park, Forest Home Park, the Everett/Lake Rd Intersection email list 104 Note - this survey was hard to find. It is not linked on the project page.	78	Dedicated Nextdoor posts on inner community and detailed signage by the road (In a safe place where
finish: July 2020 79 Smoke signals 80 Signage at intersection was great to let me know about the info meeting. 81 Through the School District like this as well 82 Camas High School 83 email list 84 email 85 Nextdoor app, which is how I saw this survey was available 86 Email 87 Opt-in e-mail list 88 Online Camas-based magazines. 89 Email 90 Email 91 Road signs 92 Text message notifications for bulk groups. Similar to the schools process for notifications. 93 In person updates at town meetings 94 Public Alerts 95 EMAIL!! Continuing to update the sign currently placed at that intersection with the next steps so that the public can know when to check in. 96 Text 97 Email updates? 98 Email (people can subscribe) 99 Signs at the intersection 100 Email 101 Public meetings or hearings with project managers. 102 Signs hung up around town (Crown Park, Forest Home Park, the Everett/Lake Rd Intersection 103 email list 104 Note - this survey was hard to find. It is not linked on the project page.		it's readable for pedestrians, not drivers) that updates progress. Maybe for drivers a large, roughly
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	103	email list
105 email list for those expressing interest	104	Note - this survey was hard to find. It is not linked on the project page.
	105	email list for those expressing interest

Q8 Is there anything else you would like to add?

329 responses

Is then	e anything else you would like to add?
	a comment:
1	I drive from Lacamas Summit past this intersection to tuen left to shop at Camas Produce, with this
	design please provide the local residents like me a Left Turn lane to make a safe turn in this growing
	city
2	I Drive this intersection daily for school and shopping at Camas Produce in modernizing the change
	why is there not a Turn lane for local residents to make Left Turn at Camas Produce, a must needed
	feature.
3	I drive from Lakeridge to Camas Produce and find the left turn from intersection difficult, left turn
	lane must be in this design for long term safety
4	
	I drive down to the intersection from Lakeshore to go shop at Camas Produce, why does the design
	not include a Left Turn lane to help local shoppers? Left Turn lane from Everett to Camas Produce is a
	good safety feature and I do not see it on your drawings, That is very bad !!!
5	
	My issue with Round Abouts in Washington, drivers here don't seem to know to signal they are
	exiting. In the particular location, in the mornings when school is im session, Southbound Everette
	from North competes with North from Lake. Not sure if a Roundabout will achieve the goal.
6	Maybe an elevated footbridge for pedestrian traffic crossing Everett
7	
	I drive past the intersecction twice a day and try to make a left turn to Cup of Joy for coffee if there is
	traffic behind me it honks so a left turn setup will be less invasive and safer to traffic
8	I come down Lake RD on my way home to shop at Camas Produce and making left turn with traffic
8	following me is not comfortable, a left turn like safeway has in front of the building dept of the city
<u> </u>	hall will be a great addition to this plan
9	I live, shop and work in Camas and commute to intersection everyday 3 times a day, turning left to
	get coffee at cup of joy should be made easier with a middle left turn lane
10	I shop at camas produce and making a left turn during with traffic behind me makes me me nervous,
	a left turn of some kind would be appreciated Thank you
11	
	LEFT TURN LANE for turning into CAMAS PRODUCE SHOULD BE A MUST HAVE IMPROVEMENT GOAL
12	I live close to the high school and drive to and past Camas Produce daily, a middle left turn lane will
	be a good improvement in that area to help local shoppers
13	I travel south to shop at Camas Produce, a left turn island is needed for vehicle safety
14	They need to account for present amount of traffic as well as future amounts of traffic and provide
	pedestrian access. Parking should be limited to designated parking lots and not on the side of the
	roads. They need to be concious of the people who live down the streets off of Everett near round
	lake.
15	
	please make sure there is a way to get into the Camas Produce store and the Seafood food cart! Left
	turn in without holding up through traffic would be great. Need to be able to get in, and right turn
	back out to go through intersection/roundabout (roundabout favored)
16	Worried about ped/bike conflict with a round about intersection.
17	Appreciate the opportunity to review and have some input. Great job!
18	safety first.
19	
	Do a roundabout! Also make lanes wide enough for bicycles to be comfortable. The ride the streets .

20	The signal lane round about on Brady east of 192nd is too small so it unnecessarily slow traffic. All
20	
	European roundabouts are two lanes so traffic can move in and out of the circle without stopping.
	The bridge on Everette needs to be as many lanes as the intersection or that bottleneck will negate
	everything. Protect the size of the parking lot for Round Lake. Protect camas produce so they can stay
	in business during the construction and afterwords as they are very important to the health of our
	community.
21	
21	way probably pand a wider bridge for signalized versions, be sure raundabout sireumference is much
	you probably need a wider bridge for signalized versions; be sure roundabout circumference is much
	wider than one on Brady and be SURE the distance between Everette thru entry southbound and
	Lake Rd entry is as large as possible or you will be exchanging one problem for anotherEuropean
	roundabouts are mostly two lanes on a wider circlethis keeps traffic moving
22	Do a roundabout! It makes the most sense. Keep traffic moving. And make it bigger to anticipate
	growth.
23	Is this going to be like the pool survey? You ask our opinions and then don't chose either option that
	was presented?
24	Split start & end school schedule to reduce high impact
25	Spirit Start at and some of some and to reduce man impact
23	Diago add a congrate turn lane (cafety reasons) for Camas Braduse. Diago add a congrate
	Please add a separate turn lane (safety reasons) for Camas Produce. Please also add a separate
	sidewalk along Everett from NE 22nd Ave to/from Lacamas Park. People walk/run along the main
	road which is such a huge risk for getting hit by a car - this should've been done eons ago.
26	Looking forward to the improvements.
27	Roundabouts are not difficult to navigate with a little experience and common sense.
28	
	It seems like the new round-about entering Camas is working well because it is a larger size.
	Sometimes the roundabouts that are smaller get too tight and they are awkward to navigate.
29	general desired and the second
	A round about will disrupt the area greatly. I travel to work. And while at work travel through in a
	1
	ready mix concrete truck. It will be very difficult to head north or go back to plant via lake road in the
	roundabout the trucks do not turn well. And it will change the image of camas. Its change drastically
	already that i am considering moving away also due to political climate. I also travel to safe fire and
	walmart /costco through the area. I have seem mild congestion during certain times. A roundabout is
	not necessary and will increase congestion.
30	My concern with roundabouts is the great amunt of attention a driver must give to other incoming
	traffic so as not to assume they are planning to exit at a given location. At the current new
	roundabout at HWY 14 I've had many close calls because there is no way to know a vehicle is
	continuing around the roundabout rather than exiting where I expect them to. I always have to come
	to a complete stop to make sure before proceeding. ALso I would highly encourage an overpass or
	other option for foot traffic so they do not have to cross the busy road. If you put up a crosswalk with
	alight it also stops traffic
31	Preserve as many large trees as possible. Perhaps add an additional bridge across the slough from the
	new bike path adjacent to Lacamas Park.
32	
	I don't use the intersection during busy hours because of the backup. Would be more convenient for
	me if I could. I don't shop at Camas Produce anymore because of the timing.
33	
33	I have doubts about either alternative. I know roundabouts supposed to be there best, but with
	bumper to bumper traffic from the highschool, I envision times when the traffic from lake will not be
	able to get into the circle for some time

34	I work at Cup of Joy and turning Left is difficult (coming from intersection) with morning traffic on my
	tail, and see and hear my customers complain about difficulty making left turn, please give us a teft
	turn lane
35	Provide safe access to Camas Produce with this design change
36	
	A Traffic Circle would be confusing and cause more congestion than the current levels, as well as
	make it more difficult for pedestrians to cross Everett. The intersection really is only congested 2-3
	times a day (morning/evening commutes and when schools begin/end), the rest of the time the
	intersection is lightly used. The current traffic signal works fine. What I would like to see are
	sidewalks and increased lighting along Everett, as well as a light at the intersection of NE 38th Ave
	and NE Everett (it is very hard to see the 38th Ave road sign from Everett).
37	Close to intersection is a wonderful produce store my hope with new design would be to provide
	access for shoppers like me
38	Allow Mor time for the survey.
39	As a business owner (Camas Produce) I was not notified.
40	It would be great if traffic could move thru there during construction as there isn't really another way
	thru camas but the priority should be on the project completion
41	Improved traffic light is my preference. I habe experienced more congestion and safety hazards at the
	roundabout entering Camas from Hwy 14 than before. I see a roundabout making both worse at the
	lake intersection as well.
42	I don't want the big beautiful trees taken down. Work around them.
43	
	Regarding the trees that are taken out, I have an extensive background in environmental restoration,
	and I believe that the number of trees to be taken out is not substantial relative to the benefits
	gained from reducing the amount of fuel burned by idling cars. Regarding the traffic congestion, my
	concern is that people arriving at the roundabout from Lake Rd. and trying to turn left will have a
	hard time getting a chance to enter the roundabout when the high school ends each day, and will
	subsequently block up those trying to turn right at that roundabout from Lake Rd.
44	I believe Everett St requires widening.
45	Please consider the safety of the customers coming to and from camas produce. I am a frequent
	patron and want to be allowed safe and easy access.
46	
	Sidewalks from high school intersection on Everett to left turn intersection to doc Harris stadium
47	
	There are a lot of people moving here, and the backups during rush hour and before/after school are
	the worst. The street north of the intersection needs improved also, especially when you get stuck
	sitting for long periods, all the way back to 15th & Leadbetter Road.
48	A traffic circle design that allows for smooth flow of northbound Everett traffic past Lake Rd and
	dedicated right turn only lanes for southbound Everett to Lake and eastbound Lake to southbound
	Everett would alleviate much of the congestion. Traffic circles have been proven to be much safer
	than signaled intersections as well.
49	
	This is a City of Camas created issue. Continued overdevelopment without a properly supported
	infrastructure has brought us to this. The burden of expense should come from the many developers
	who've been allowed to build in all areas of the city, which has led us to this congestion.
50	Can any lanes be designated as through or turn lanes that do not have to stop unless there is
	pedestrian at a controlled signal. Thinking of the main road in Oregon City

51	The information given to the community in regards to traffic has always been that the roads could
	handle the traffic of the growing amount of housing and population in the area. Why have these
	serveys been so inaccurate?
52	I am glad you are tackling this. It's a mess! Sidewalks please!!
53	
	I live by two of the three roundabouts in Camas, I have been almost hit several times. I even had a
	lady coming at me going the wrong way. People do not know how to drive thru round abouts, more
	times than not I have witnessed people not even looking and driving into the roundabout without
	even looking. Again I have watched many kids run red lights at this intersection and don't see where
	if they can't handle a red light how are they going to yield the right away properly at a roundabout.
	Plus to not to mention how many trees would have to come out of that area to do this properly.
54	Stop building 2 lanes and roundabouts in Camas. The city is growing at 25% per year. 4 lanes
	everywhere!
55	With camas high scool, and so many new drivers coming in and out of the scool i think a round about
	would be a horrible idea
56	
	Have you considered just adding an additional traffic light north of the intersection on Everett? The
	problem is the high school traffic that backs up a considerable distance. If they had to stop at a light
	programmed for that time of day, it would allow residents, Round Lake parking lot users, etc to get
	out AND it would reduce young drivers' speed. Just a thought.
57	not a fan of roundabouts
58	Thanks for including community in this decision process.
59	Widening the bridge and adding a center turn lane up through the high school turn off would help
	tremendously. A dedicated turn lane on lake road for at least 1/8 mile to allow flow from lake road
	to downtown camas would be easy to build and very effective at reducing congestion. Your option
	one appears to just be status quo.
60	A round-about is a terrible idea and would make traffic flow worse. Any improvement needs a right
	turn only lane south bound on Everett turning onto Lake. Going east on Lake could have 2 separate
	lanes to accomodate both right & left hand turns at the intersection so traffic can flow better onto
	Lake (later merging back to one lane). I'm also disappointed the bridge is not being addressed
	because it needs to be improved and widened to at least accomodate a bike lane as it too is a
	bottleneck.
61	
	I do not like the round about concept. In theory these are more efficient but Americans do not know
	how to use them. And it would involve what looks to be a larger impact to trees and wetlands.
62	dont displace 55 & older community
63	Voulve already made up your mind to put in a roundahout and this survey is a waste of time
64	You've already made up your mind to put in a roundabout and this survey is a waste of time. Signal Alt #3 is UNACCEPATBLE! People love Camas Produce and cup of joy. Destroying their
04	businesses should not be an option at all!
65	businesses should not be an option at all:
03	Simply widening the lanes is not going to relieve congestion much on the busiest of times. Right now,
	I cannot get out of our street during back ups. And this will do little as more neighborhoods are built
	and the extra lanes will quickly be overwhelmed and we will be right back where we started. The
	roundabout will be an adjustment, but in my experience, the traffic will continue to flow, even if at a
	slower pace. The extra lanes with lights will not only be overwhelmed in the next years, but it will
	make the area look more city like. At least the traffic circle can keep a less city-like appearance.
	make the area rook more city like. At least the traine chief can keep a less city-like appearance.

66	
	A single lane roundabout is a bad idea. Judging by the other local roundabouts, people are not kind or
	respectful in allowing cars into the line, and this intersection is heavily travelled by new high school
	drivers. It would be safer and more efficient to have a traffic signal.
67	It would be helpful to provide alternate routes to avoid the construction area during the project time
	frame
68	With how congested the intersection already is, I feel if replacing with a roundabout it will become
	more congested and more accidents will happen. I also feel that drivers will be less aware of
	pedestrians and bicyclists and it will not be safe.
69	Public comment is critical as is getting the word out on this to the community
70	Leave it as is! I see no advantage to any of the plans!
71	Not a fan of round about and the space they require!
72	Why aren't developers and new homes paying for this? Do not destroy the wetlands, TREES, and
	nature bc over-populated Camas has a problem. Too bad. Should have thought about that before
	jamming way too many houses in the area.
73	
	I don't see how a round about will slice the congestion on the 2 roads. I prefer traffic signals.
74	Please put in sidewalks & Street Lamps
75	It would be great to have more detailed information at the next open house about current and future
	expected traffic flows.
76	Need bike lanes and crosswalks all the way up and down Lake Road
77	We do not live in Europe. We live in the United States. Driver do not know how to use round abouts,
	please quit building them.
78	The biggest issue are the turning lanes. Option one would be the lease expensive, evasive and would
	meet the needs of future traffic
79	There needs to be a way to turn right off Lake Rd. onto Everett, without waiting in a long line. Right
	now there is not enough room on the road, once 4 cars are waiting to turn left.
80	as long as the city continues to allow property to be developed w/o thinking about repercussions
	'down the road' this will be the tip of the iceberg. this problem should have been addressed long time
04	
81	Round-a-bouts are horrible and would impact the greenery around the instersection far too much.
ดา	No to the round-a-bout!
82 83	Construction during off hours, nights or certain plan ahead advertised days
03	It is important for public safety that a turn lane is made for customers going to the Camas Produce.
84	If a roundabout is chosen can we give it two lanes.
85	Double lanes on round about
86	I HATE ROUNDABOUTS!!!!!! STOP THAT!!!!!
87	Effects on existing business DURING construction should be a primary concern. For example, people
5,	need to be able to access Camas Produce EASILY during construction.
88	I am worried about the trails at Round Lake continually losing mature trees and the green belt that
	allows users to feel they have actually escaped the city. There are many areas along the trails where
	you can now see houses, roads, etc. My vote would be to build a roundabout using as much of the
	existing paved area as possible, and pushing west onto the private property instead of east into the
	park.
89	After walking at the park I like to stop at the local produce market where traffic is obnoxious and a
	left turn would be awesome

90	Please keep in mind the city's newest, least experienced drivers will be flooding this intersection
	twice daily.
91	If you have a bottle neck at the bridge and just south of the intersection traffic will still back up at
	intersection
92	
	There needs to be a balance between tree/wetland mitigation and the need to get drivers where they
	are going. Traffic is only increasing and there are extremely limited alternate routes. We may need to
	do some unpopular things for the greater good and future development.
93	If you decide on the roundabout (which I don't prefer or think addresses the pedestrian issue) please
	don't landscape the middle so you can't see across it. This seems to occur on every roundabout in
	Camas,
94	This intersection better be epic. We have had to endure so much construction over the last two
	years
95	Bike lane along Lake Road and speed control for cars.
96	Please keep bicyclists in mind while planning this new intersection.
97	The roundabout needs an interactive T-Rex statue with optional jet pack.
98	Thank you for working on this. It would be much easier to just ignore the problem like Portland does.
	I appreciate that you don't do that.
99	We need improved traffic flow at the intersection, but we also need increased capacity on Everett all
	the way to 43rd Ave.
100	I don't think the intersection is that bad as it is. I think a roundabout would make the left turn more
	difficult from 500 on to lake road, maybe
101	About 120 Camas High school runners will need to cross this intersection on a daily bases to get to
	Heritage trail where they do distance running. We should consider pedestrian traffic that may be
	attempting to connect from Round Lake Park to Heritage Trail Park as well as the needs of cars and
	daily school traffic when planning for this busy intersection.
102	
	In either selection, a left turn lane needs to be included for existing businesses i.e. Camas Produce
103	
	Consider a hybrid design that incorporates lights and continuous right turn lanes vs the roundabout.
	The roundabout design is a complex traffic and pedestrian flow and would likely increase the
	probably of incidents. One to three years is way too long for construction and citizens should not be
	subject to that kind of cost and traffic congestion. Thank you the opportunity to voice my opinions.

104	
	I have concerns for either of the options that are being presented. The current intersection is signalized and is not functional as we know. The new roundabout on 6th Ave has only partially solved the problem, during peak traffic times the traffic backs up under highway 14 not to mention drivers not knowing how to use a roundabout. I experience many people stopping at the yield sign daily. Throw in 1000ish high school students "new drivers" and that could be a recipe for disaster. The bottleneck of the current bridge is a part of the problem and in my opinion will still be an issue with either option presented. With the growth that Camas has seen in recent years and appears we will continue to see based on the successes of our school system, the new home construction in the area and our recent exposure in being in the top 6 of the small business revolution. These successes are not going to slow down our growth. I am in real estate and I have many many clients call asking about the Camas area based on school scores alone. Many of those same people like the proximity to Portland and to PDX for business travel. Not to mention our quaint small town feel=) It seems to me
	that there should be a long term solution. So here is my opinion I think that the existing bridge should be converted to a one way bridge and that the place where is the new red pedestrian bridge is should be another one way bridge going the opposite direction. This would likely mean that the parking lot would be taken for use by traffic. I don't think that this would be horrible as it is hard to
	get in and out of the parking lot in its current location during peak traffic times. That is my 2 cents, I
105	said long term solution not cheap=) While I am all about saving the trees (stop letting builders squish houses in and shave the land), near
103	a road I have the opposite opinion. Flow of traffic is extremely important for the safety of our citizens. People get frustrated and cause wrecks. Emergency vehicles need access. Pedestrian s need a safe way to access that recreational area.
106	There is absolutely nothing wrong with the intersection now. Save the money and the inconvenience by leaving the intersection as is.
107	I have concerns for the businesses located within the construction corridor. Access needs to be
107	maintained and exven improved.
108	Hate the idea of a roundabout. There is a lot of traffic a times going through that intersection especially with young drivers! I am visualizing the insane roundabouts in Europe! I do not like round-a-bouts and I think one in that area, unless it is very well planned out, will be very dangerous. Too many high school drivers for a round-a-bout.
110	I really don't want a roundabout. I think a lot of the problem could be solved with some sort of intelligent signal light that gets real time data on how backed up the traffic is on Lake Road.
111	Expand from two lanes to four in all sections
112	This intersection is along a major Clark County bicycle route, and I see cyclists and pedestrians of all ages navigating this intersection, all the time to access all of the amenities in the areas surrounding this intersection. Vulnerable road users must be of higher priority than moving vehicles. And I also don't want to see trees removed. Btw, the majority of the time that I pass through this intersection it is as a car driver.
113	Above all else I really want it to be safe.
114	Roundabouts are hazards in the area. Adding one here should increase congestion, confusion, and safety concerns for all involved. It requires increased awareness on the driver's part, bicyclists and pedestrians. The simplest, quickest, solution is the best.

115	Provide access to Camas Produce!
116	Tronuc assess to camas riodace.
110	Enforcing parking on Everett and lake road during peak usage times. As a walker / biker having to
	swerve in to traffic around cars is unsafe. I worry about kids who aren't as aware.
117	I think that Option 1 is superior.
118	Access to Camas Produce.
119	I was at the informational meeting and thought it would of been nice to have question and answers
113	at the end of the presentation.
120	Access to Round Lake parking should be part of consideration.
121	I think the long term fix needs to be the goal, not something that needs to be readdressed or fixed in
121	5-10 years. Thank you for including community input:)
122	I think a roundabout would be a great improvement to the intersection.
123	Has continuing the right turn lane from Lake Road to Everett been considered? It was like that years
123	ago and maybe needs to be addressed again
124	ago and maybe needs to be addressed again
124	I prefer a roundabout style. The proposed design is too complex, expensive and will be unsafe.
125	Is this the best use of our money? I travel through there at least once a day and i don't have an issue.
123	Those that don't plan well do have an issue. Not my problem!
126	Those that don't plan wen do have an issue. Not my problem:
120	The roundabouts are bad options. aggressive flow takes over and will cause more congestion.
127	You should condemn the property to the south, mobile park and produce and combine with the park
127	for parking
128	Tor parking
120	I live just off 35th street and it is extremely dangerous currently making a left turn on Everett. I am
	concerned a round about will have a heavy stream of drivers and no breaks created by the light. We
	know the traffic for highschool is a huge part of this problem and that stream us extremely difficult
	with these drivers! My elementary son's school bus had to change their route as not able to turn left
	in the morning with current traffic- it is really concerning! The while corridor needs a published plan
	before we do this. Also, I do not want a round about as this appears to take too many trees.
129	a construction of the cons
	Safety issue. Please provide turning lane for customers coming the roundabout to Camas Produce
130	Keep the residents involved in the process.
131	I wish we would have been kept this informed with all the new developments going in that I feel are
	wrecking our quality of living in the community.
132	· · · · · · · · · · · · · · · · · · ·
	I believe option one will meet the control and safety requirements for this intersection now and for
	the foreseeable future given the increasingly heavy use from both vehicles and pedestrians. A round
	about works for lower traffic levels, this intersection is too heavily used for that solution.
133	PLEASE MAKE SURE THERE IS SAFE ACCESS TO CAMAS PRODUCE AND THE LOBSTER TRUCK. I GO
	THERE SEVERAL TIMES A WEEK. THERE SHOULD BE A TURNING LANE THERE!
134	No roundabouts
135	Safety issues, turn lane for Camas Produce.
136	Important To minimize the impact to the small business that operate in the area. Please consider a
	turning lane for the camas produce parking lot
137	Add a turn in to Camas Produce
138	There should be safe access to camas produce

139	People do not know how to use the roundabouts. Please keep the lights. I see close accidents happen
	daily in camas roundabouts.
140	To have a better traffic flow would be amazing!
141	Make the accessibility to business easy
142	Turn lane into Camas Produce
143	The roundabout is good for safety but will NOT relieve traffic congestion. There are many examples
	of this throughout Portland.
144	
	You must slow this growth within and surrounding Camas. When is enough enough? This little
	town of ours is not little any longer. There will come a time very soon where Camas is not a place
	you want to live and raise a family. After all, all these folks moved (from larger overcrowded places)
	for small town Camas. And their ruining it by trying to make it like the dumps they came from. Stop
	giving out permit after permit and saying yes to everything for the right amount of \$\$\$\$ You have
	achieved your growth and national recognition now it's time to take care of the residents. Especially
	those of us that were born and raised here and are now raising our own families in Camas.
145	I understand times have changed and we have more people and vehicles, but I miss the old camas,
	the friendly camas. I'm not happy with what its turned into
146	Allow for easy access to local business
147	changing this one intersection is not going to reduce the amount of traffic here
148	The bridge is too small for this project to work efficiently. I canthe can see the city of Camas agreeing
	with my comment 5 years from know. It will be wise to do it right the first time and save money. I
	understand widening the bridge is very expensive.
149	Lets ensure pedestrians safety as a priority! So many on foot all year long
150	
1	
	I have lived behind the lake store for over 30 years. Please take into consideration that the pedestrian
	traffic is just as bad as the cars. This is a family gathering , summer fun, marathon, track meet,
	traffic is just as bad as the cars. This is a family gathering, summer fun, marathon, track meet, wedding, dogwalking, daily jogging destinaion for a lot of people. Emergency rescue, fire trucks go
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159	A round about would be a congested nightmare as well as a safety hazard. Too much traffic and
	impatient people who don't "play well" with others. Why encourage MORE road rage? I have seen
	vehicles run up on the high spot at the Camas entrance, several near crashes and a boat on a trailer
	tip over. If a round about is your solution, I would rather the city just leave the intersection and stop
	lights as they are!
160	Both alternatives appear to sacrifice motorist safety to the cyclists and runners who don't pay for
	roads. Option 1 with dual turn lanes to get more cars through that then immediately merge together
	will promote aggressive driving. Option 2 of a non standard roundabout will be very confusing to
	occasional non daily users and watching for crossing motor traffic tends to distract from seeing
	pedestrians. Many drivers run without headlights in dark or bad weather and look like a gap in
	traffic.
161	i'd likecto see and easy way to run/walk from Lacamas Lake to Round Lake - like a small pedestrian
	bridge over Everett
162	Factor congestion added by those parents who drive children to school rather than bus. This could
	add hundreds of cars that would generally not travel through at that time. What role is the school
	helping with awareness on their end?
163	As a former Portland resident, I appreciate the the rural setting that Camas offers. I trust that you will
	be good stewards to our community. Thank you,
164	Round a bouts not practical for all the teenage drivers going to the HS. too dangerous. Most adults
	don't even know how to drive through them.
165	A round about would work better as long as drivers understand how to use it. We have driven in
	busy cities in Europe and they work very well there.
166	This project is way overduemore important than the other 2 roundabouts put in Camas in the last
	couple of years.
167	PLEASE DO NOT put a round-about at this intersection, there is way to much traffic for that to work
	properly!
168	Camas will screw the citizens on this too.
169	Thank you
170	Thanks for including more than just the nearby residents in this project! (PS I had to check the No
	Comment box in order for the survey to accept my comment!)
171	Please include traffic calming measures. Traffic usually speeds through and is dangerous to
	padestrians
172	I like the roundabout design. Since developers seem to continue to add more residential homes this
4==	solution looks to accommodate growth.
173	
	Ensure that this does not impact kids getting to school. Have hours worked on the project take into
	consideration the high volume traffic times of our kids driving to/from the high school.
174	I strongly vote in favor of the roundabout option, provided any barriers are kept to a minimal height
	and do not obstruct vision in the intersection. It will be imperative to have maximum visibility in this
	area.
175	Stop letting developers add sub divisions, that would help our traffic problem. Build another high
4==	school for Gods sake.
176	I do not like the roundabout idea
177	well, I did have a comment and typed it in here, but the system won't accept it. How can I give
	written input? Name removed for privacy.

178	If you put in a roundabout - keeping the construction to a limited height so that folks can see what is
	happening on the other side of the roundabout would be a vast improvement over the roundabouts
	with tall constructs.
179	Roundabout is the max benefit for traffic congestion and control
180	Maybe just stop approving housing developments that continue to put strain on the road?? Common
	Sense solution. :)
181	, and the second
	Roundabouts are great. This conceptual drawing seems complicated which concerns me with all the
	new drivers passing through that intersection. I prefer the roundabout because intersection with light
	has only a limited benefit. We just need to make sure the roundabout isn't too "creative"
182	Thank you!
183	, and the second
	I think a roundabout is perfect in the afternoon when almost every car is turning right from Everett to
	lake the biggest issue is all those cars turning left from lake to Everett to the high school they could
	potentially block cars trying to go straight on Everett. The fork in the road before the roundabout
	looks like a good idea. If not a traffic signal assisted roundabout could be helpful if the signal was only
	in use in the morning to allow both avenues of approach a chance to get to the high school.
184	11 3 5
	Neither of your options will reduce traffic. You have allowed the over population of a city that does
	not have the infrastructure to support the growing population. Roundabouts only work in less
	congested areas. Adding a second lane for an 1/8th of a mile and cutting into the already small round
	lake parking lot is a waste of money. Youve allowed this problem to happen because of greed and
	over development. Now you're going to have to deal with consequences.
185	I think the roundabout option is the best.
186	
	No round abouts please people do not understand them and will not help this situation.
187	I hate roundabouts!
188	Yes prefer traffic lights with turn lanes
189	I am so happy this if finally being addressed! This is the most frustrating part of my commute DAILY,
	and I think a roundabout is genius!!
190	
	Replace the darn bridge & quit screwing around with it! Your plans only only continue to create a
	funneling effect north of the bridge wii h still slows traffic & impacts the neighborhood negatively.
191	I'd like to be able to get to work and get my kids in a timely manor
192	No more stupid roundabouts!
193	
	With the increase of roundabouts being used in the camas/Washougal area, I've noticed the lack of
	proper use by motoristsstopping instead of merging, no signal for exit, hesitant drivers interrupting
	the flow. With so many inexperienced/new drivers using this intersection because of its proximity to
	the high school, I believe average driver experience (target driver) should be given strong
	consideration when making a decision about improvements for this intersection.
194	
	It doesn't appear that option 1 will change anythingneed long turn lanes for those headed south on
	Everett over bridge and headed east on Lake Rd to keep traffic from backing up.
195	
	I would prefer the option that maximizes traffic flow and saftey for pedestrians and bikes. I assume
	the city will make a decision based on research over the "feelings" of citizens.

196	
	Please consider improving the crossing for peds/bikers as that seems to be lacking in either plan
197	With the amount of people moving through there during school hours it almost should be an over
	pass. As of now the turn circle looked like a better option
198	
	Explore a pedestrian bridge over the roadway and end of lake linking Round Lake trails to Lacamas
	trail - connect near lodge. Would get bikes and pedestrians out of that intersection.
199	I would hope the city lets stasticical evidence guide their decision rather than anecdotal opinions
	from citizens. Input is important but evidence should rule. Thank you.
200	Please don't put a round about there. That is really going to confuse people more.
201	I HATE the roundabout on Brady (my neighborhood) for its ridiculous small size. It's going to be a
	future problem. Whereas I LOVE the size and functionality of the roundabout at HWY 14 entrance!
	Please don't build anymore small roundabouts like Brady. Perhaps I ought to blame Vancouver City
	for that miserable foresight.
202	Not clear how the signalized intersection is different from current intersection. Is an extra land
	added?
203	I like the round-about design
204	PLEASE SAVE THE TREES AS MUCH AS POSSIBLE. Camas rips out trees at every turn. Round Lake is so
	sad. So much is destroyed. Please protect the natural lands for the animals, birds, trees, plants and
	the ecosystem.
205	
	The narrowness of the lake road at the Everett intersection cause a bottle neck. If 3 or 4 cars are
	waiting to turn left they end up blocking the people who could be making a free right turn causing
	major congestion and traffic that sometimes backs up all the way to Sierra
206	Adding 50% more traffic not adding lanes is not an acceptable solution.
207	Ensure city webpage is quick and easy to use. Project information needs to be immediately accessible
	in a user friendly way.
208	The roundabout would appear to help more with congestion but why not split the traffic going south
	on Everett earlier so people can turn where the road is currently on Lake. Also, a big push about how
222	to use it!
209	
	Keeping traffic flowing and time to complete to s minimum is important given that it is the only
210	convenient north/south connection and there are schools on both sides impacted.
210	We are growing so hopefully by time this is done it's not out dated with traffic. We got more then 400
211	+ home going in camas. Roundabouts are the best option!
211	Roundabouts are the best option:
212	An 'over the road' walking bridge from the Lacamas lake side over to Round Lake would be nice!
213	Don't put a roundabout there.
213	The round about will only work if it's big enough. The one at the freeway on 6th causes back up
Z 14	because it's too small so people don't feel like they have enough time to get in before a car comes.
	Also people don't know how to use it.
215	Should of fix the intersection prior to building city office on the lake Rd
216	Please don't ruin the trees
217	Should have made these adjustments before allowing the huge population growth and new
	subdivisions.
	I .

218	
210	NO ROUNDABOUTS! Will hugely impact the amount of room required to construct, and the area has
	limited driving area. You add Bicycle access as well, and it will destroy the aesthetics of that area.
219	Lost cause 3 roads too many cars
220	What about the rest of Everette and city, this is the result of the unrestranded growth the city is
220	lembacked on.
221	I wasn't clear about the impacts of the project on the bridge from initial info meant
222	A roundabout would be a nightmare. Nobody lets anybody in when its peak time
223	I feel the roundabout coming into Camas isn't big enough. I use it daily and have witnessed big trucks
223	don't have enough room to make the curve. Same for school buses. That should be considered if the
	roundabout choice is made
224	Roundabouts will not work for pedestrian and bike safety
225	This should be done before any more houses are approved that would add traffic.
226	Bike Lanes and Pedestrian Traffic needs focus.
227	Don't underestimate the impact of turnoffs north and south of the intersection (e.g. Camas Produce,
	Round Lake parking, 38th street
228	Thank you for addressing this issue.
229	This project needs to take priority, especially since Camas City Council has approved so many building
	permits and developments in the past 10 years. Also, I am concerned that currently this project does
	not also address bridge between Lacamas & Round Lakes. This bridge and its narrowness also impacts
	flow of traffic.
230	Thank you for working to improve the intersection!
231	I sat at the roundabout at 6th and hwy 14 exit for over 5 min at 5:30 the other day. I'm NOT a fan of
	roundabouts.
232	I realize roundabouts are not a popular idea comment, but I have been impressed with the new
	roundabouts in Camas/Washougal because traffic flow continues.
233	l do not care for roundabouts
234	There are a lot of new drivers that drive through the intersection. I don't believe roundabouts are
	the best option for new drivers. They tend to be confusing to those who have been driving for years,
	let alone new teen drivers.
235	I rated the impact on trees have a high ratingI'm not as concerned about the number of trees as I
	am saving the chestnut tree. I like the roundabout option for saving the chestnut tree (assuming I'm
	reading the map correctly?)
236	I'm finding the biggest back up is directly associated with the school schedule.
237	I think a roundabout is the best option.
238	His should have been done 3 years ago!
239	there should be left turns lanes through there. Is it possible to add a bridge for turning right from southbound Everett onto Lake that would merge
240	further west from the intersection? This would make a less sharp turn than currently exists and may
	help ease congestion at the intersection as well.
241	Please don't cut down a bunch of trees and ruin the wetlands
241	rease don't cut down a bunch of trees and fulliture wetlands
<u> </u>	Do it right, do it once. More time and cost (within reason) is well spent if it solves the problem.
243	plan for construction to be sensitive to school hours/schedule
244	With the current congestion and projected growth, neither idea seems like a long term plan. An
-	overpass seems like the only option to keep the flow of traffic moving while keeping
	walkers/runners/bikers safe.

245	When construction starts, please avoid working in that area right before (7:30-9:00 a.m.) school and
	right after(3:00-4:00 p.m.) the congestion is already bad during those times.
246	
	One of the biggest problems of this intersection is the insane amount of high schoolers who drive and
	use their phones for talking and texting. When I am on my home from round lake on late start days
	for Camas High School I consistently see between 5-10 high schoolers backed up all the way to Sierra
	texting on their phones. Then they speed through the intersection. It is dangerous and illegal. I do not
	believe a roundabout will provide the level of traffic control that is required at this intersection for
	the bikers and other recreational users. Roundabouts do move traffic efficiently, but they create
	unsafe situations for those not in autos. I also believe it would negatively impact the round lake
	parking lot if there was a roundabout. The current light stops traffic just long enough so that you can
	exit the parking lot. Thank you for soliticing feedback.
247	I don't believe either of the two options will reduce 5he backup on lake road you must widen lake
247	road further up than those two plans show so when the cars are backed up making a left of entering
240	the traffic circle right hand turns don't get affected
248	I have concerns about the future traffic running through Everett due to increasing numbers of homes
	being built towards Fern Prairie and near CHS. Is there any consideration of somehow expanding the
	number of lanes to Everett? It's a bottleneck!
249	If a roundabout is selected then the City should use this as an opportunity to create a landmark for
	the City.
250	Looking forward to see this improvement. There also needs to be better sidewalks and ped crossing
	north of this intersection
251	
	You must widen 500 north of the proposed intersection. Widening 500 at the same time is financially
	responsible, efficient and proactive. This oversight would be poor planning and a gross oversight. I'm
	glad you are looking at an intersection improvement, but you also need to widen 500. If that does not
	happen, why bother with the intersection? Yes, trees, land, wetlands are important, but the city
	should have thought about that before allowing so many houses and development. Increase in
	population and housing DEMANDS infrastructure for livability for all. It's the wrong time to talk about
	these wetlands, property, bridges and trees. You could have predicted the need of infrastructure
	improvements and decided upon allowing development the development was worth more to the city
	than the trees where infrastructure improvements were obvious. Think of that in the future when
	you continue to allow development. Widen 500 as an addition to this intersection proposal. This does
	not go far enough for this area and without widening 500, will not allow the maximization of this new
	intersection-limiting it's overall cost effectiveness. We want infrastructure improvements
	simultaneous, or prior to, to increased housing
252	The maps are a bit challenging to decipher. Glad to know there will be another informational
	opportunity in March, as I was unable to attend the meeting on Feb. 26th.
253	Stop studying the issue and spending ridiculous amounts of money on traffic studiesit's messed up
	and everyone knows it and a roundabout is the best solution. Do it now.
254	,
	Bridge is the real bottleneck. Explore solutions to expand rather than ignoring the root cause.
4	

The congestion at the intersection is caused not by the intersection itself but by the Lake Road approach to the intersection and the Everett Road south approach to the intersection. Neither appear capable of having two lanes that would allow right turns to move out of the intersection and not have to wait for the other drivers. Unless those two approaches can have double lanes, nothing that you do to the intersection will improve congestion Please have construction done at NIGHT. It's not a big enough area now to have construction during any rush hour or school. 257 Thank you for surveying the residents! Before building permits are approved, large construction projects should have to include footing the bill for infrastructure improvements necessary to accommodate it. And we need to limit construction keep Camas small-town! 259 Please do not add any more round abouts. They are the most absurd things ever. Shift proposed roundabout west and south to maintain relative alignment of Everett. Please select roundabout but shift west. 261 I would vote for the traffic light option. Especially with all the young drivers headed to the high school and the lakes. It appears less trees and wetlands would be disturbed. I feel it would be safer. 262 I think the roundabout is a great idea. Split the southbound traffic into two lanes as soon as you can beyond the bridge (or widen the bridge), one lane turning right to Lake Road and one lane into the roundabout. 263 I prefer roads to be shut down and construction done quickly. Keeping the traffic access really slows the progress. 264 Thanks for taking this on! Also, roundabouts are awesome. Don't listen to the haters. 265 The chestnut tree should be preserved. Additionally, trees shouldbe planted to make up for trees removed to preserve the greenery in Camas. 266 Just take a small piece of the lake where the water recedes. The roundabout will create more of a congestion and cause accidents due to the amount of traffic and buses! Please do not do this! 267 I hope thi		
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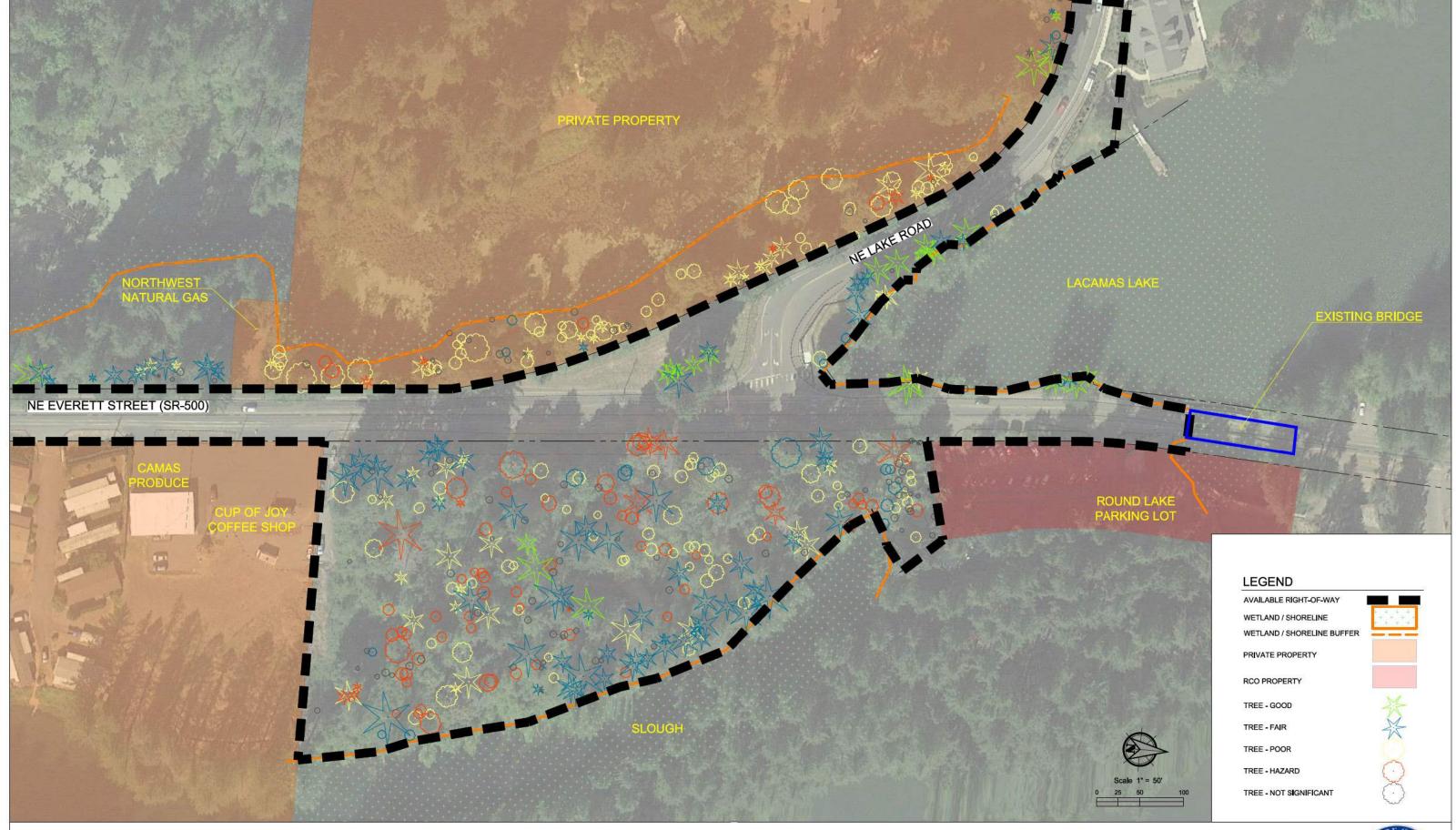
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		of a round-a-bout is for traffic to keep moving. If you have the walkers and bikers cross the round-a-
		bout, I foresee big safety issues.
232 The intersection is an easy signalized so the only viable now and queding improvement is a round	292	The intersection is already signalized so the only viable flow and queuing improvement is a round
about.		about.

293	
	Best of luck. I don't see an easy fix and with more drivers coming this will be hard to fix quickly
294	I wish those running last night's meeting had allowed for a time of question and answer as a group
	after the presentation.
295	Round about is my preference. They are most efficient and safe. They are used in other communities
	with long term positive effects.
296	
	We've removed enough trees! I don't mind waiting a light or two to get through the intersection.
	Increased traffic is something the city should consider PRIOR to blindly approve building projects.
297	Transparency about how City will use a Bidding Process and how it will decide which company to give
	the business to.
298	Thank you!
299	
	Several years ago I sent a leaf sample from one of the large chestnut trees near here to the American
	Chestnut Foundation for identification to see if it was an American chestnut. They said it was in fact a
	European chestnut. I am pretty sure that the largest chestnut trees in this area were planted by the
	Pittock family circa 1890, and the smaller chestnuts are seedlings from the originals. It is neat to have
	a few living remnants of the Pittock family's time spent in this area.
300	
	Sad not to see the information that was presented at the open house. I would like to know more
	about impact on private property, lake and trees if they are affected by this project. Would like to see
	also other people's questions and concerns and be able to anonymously add to them if I have any.
301	I thing the roundabout would be the very best solution!
302	Roundabout. Just do it. Ignore the haters. They have proven effective and the local citizens are
	getting accustomed to using them.
303	
	I would like to understand the potential savings if the road isn't kept open during construction; how
	would pedestrian traffic be safely managed with a roundabout?; Prefer function over aesthetic unless
	it grows significantly as shown in the roundabout sketch.;
304	
	If a round about is put in then it needs monitoring by police so that people who do not use the yield
	signs are ticketed with a high fine of 200+ dollars so that they are utilized correctly.
305	Biggest worry is the traffic issues DURING construction as I drive through the intersection at least 2
	times a day to get to/from work to home. We already dealt with extensive traffic delays during
	sewer and re paving work. Not looking for more!
306	need to add a sidewalk on the south side
307	NO ROUNDABOUT. PEOPLE DO NOT KNOW HOW TO USE THEM AND THEY HAVE RUINED GETTING
	ON AND OFF OF SW 6TH
308	Reduce congestion. The lines are awful during school times.
309	Would like roundabout circle to be a little bit larger with single feed on the circle, and not double
	feed going to and from Lake Road.
310	Would love to see some real thought put into the aesthetics of this - keep as many trees up as
<u> </u>	possible and make this a beautiful entrance to the historic side of Camas!
311	I wonder what the foot traffic plan would be with a roundabout. Summer foot traffic is very heavy on
	hot weekends.
312	Don't cut down any more trees. I moved my family to Camas for the beauty and greenery. Stop
	cutting down trees.

313	A roundabout is a terrible idea. These are high schoolers. The majority of people don't do
	roundabouts correctly
314	
	If it's a roundabout I would like the safety of the pedestrians & CHS runners to be strongly taken into
	consideration during the design phase & the public to be CLEARLY shown how to manuver correctly
315	Thanks for listening
316	I'm not convinced that either project will reduce traffic congestion. There are so many new housing
	developments being built that the number of cars using that intersection has tripled. Camas needs to
	stop growing unless the roads can handle all the new growth.
317	I prefer alternative 2 with Roundabout - blue line configutation with minimal impact top Round Lake
	parking. Impact to private property on lake. Minimal impact to Lake
318	
	Please provide a venue that is large enough to accommodate the public. I went to the first meeting
	and had to leave. There was not enough seats and I could not get into the room to see the
	presentation. The person speaking was also way too soft spoken so I could not hear what was being
	said. There were displays at the back of the room which I could not view since it was SRO and access
210	was completely blocked. Overall, a highly disappointing experience.
319	I am very concerned about the difficulty for motorists entering Everett from 35th Ave. During busy
	times, we must rely on the short gaps in northbound traffic caused by the traffic light switching.
	While I think a roundabout will improve traffic flow, it will cause more issues (and accidents) at 35th Ave.
320	My concern is for the trees and surrounding environment. The choice should protect these things as
320	much as possible.
321	Im not sure I see how the signal option,#1, will improve flow. Bottle neck at the bridge. I really like
] 321	the roundabout version as it will improve traffic flow but don't see how either plan will improve
	safety for pedestrian movement from the two paths around the lakes. Is a pedestrian bridge at all in
	the concepts?
322	No traffic circles!
323	
	Please no roundabout. Traffic is too congested and dense in small time frames for this to work. It
	would be a nightmare during the school year. These only work if traffic is spaced out a bit.
324	Rectrict trucks and things should greatly improve.
325	I live right there and use that intersection several times a day. I don't think it's awful. Yes, traffic gets
	congested at times, but overall it's not a horrible interesection. I would like to see park and other
	natural property preserved. Should a roundabout be chosen, I would like to see ahead of time how
	pedestrian safety will be addressed.
326	
	Roundabout seems like the most efficient proposal. Not sure from the traffic what the bold orange
	line is, but assume the thinner orange line is pedestrian crossing. I like that it is moved away from the
	circle so traffic can continue during the limited times pedestrian traffic is present.
327	No roundabout. No widening of Everett south of Lake Rd. Use signals during peak hours uphill of
222	Lacamas Lake Park & south of 21st Ave
328	I abhor roundabouts, especially in this area as roundabouts are difficult for pedestrians to cross. A
	flyover walkway from the round table parking lot would work. As far as communication, I don't use
	my cell phone for anything but texts and phone calls. So, I think in the mail notices and email notices
	are very helpful.

[This comment was moved from the responses to Question 5] #8 Isn't letting me write a comment and is only accepting "no Comment" box check. My comment for #8 is that I like the roundabout solution as it will accommodate the growth that is already in action in our town and the traffic is only going to increase

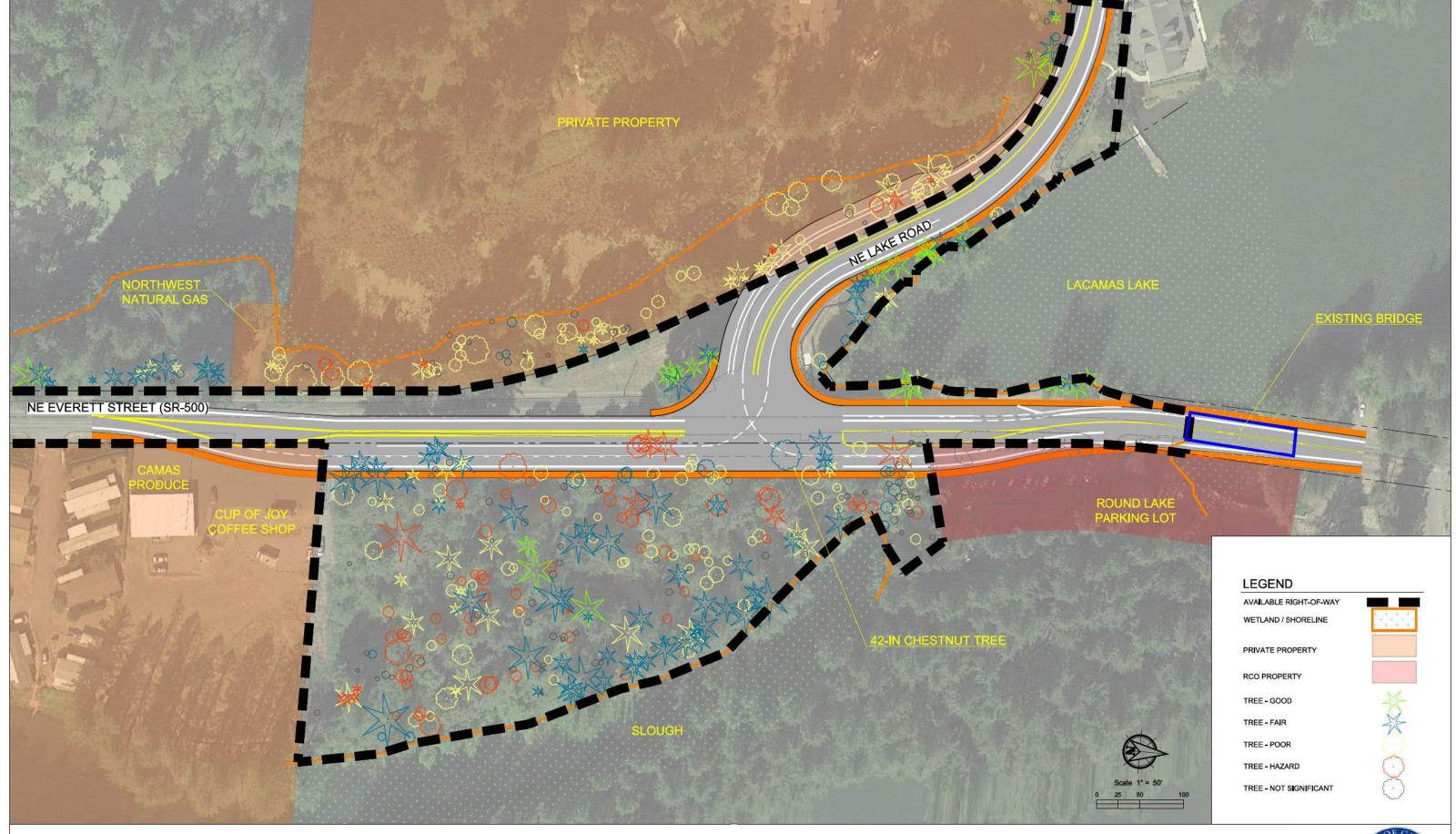
Appendix A Alternative Layouts







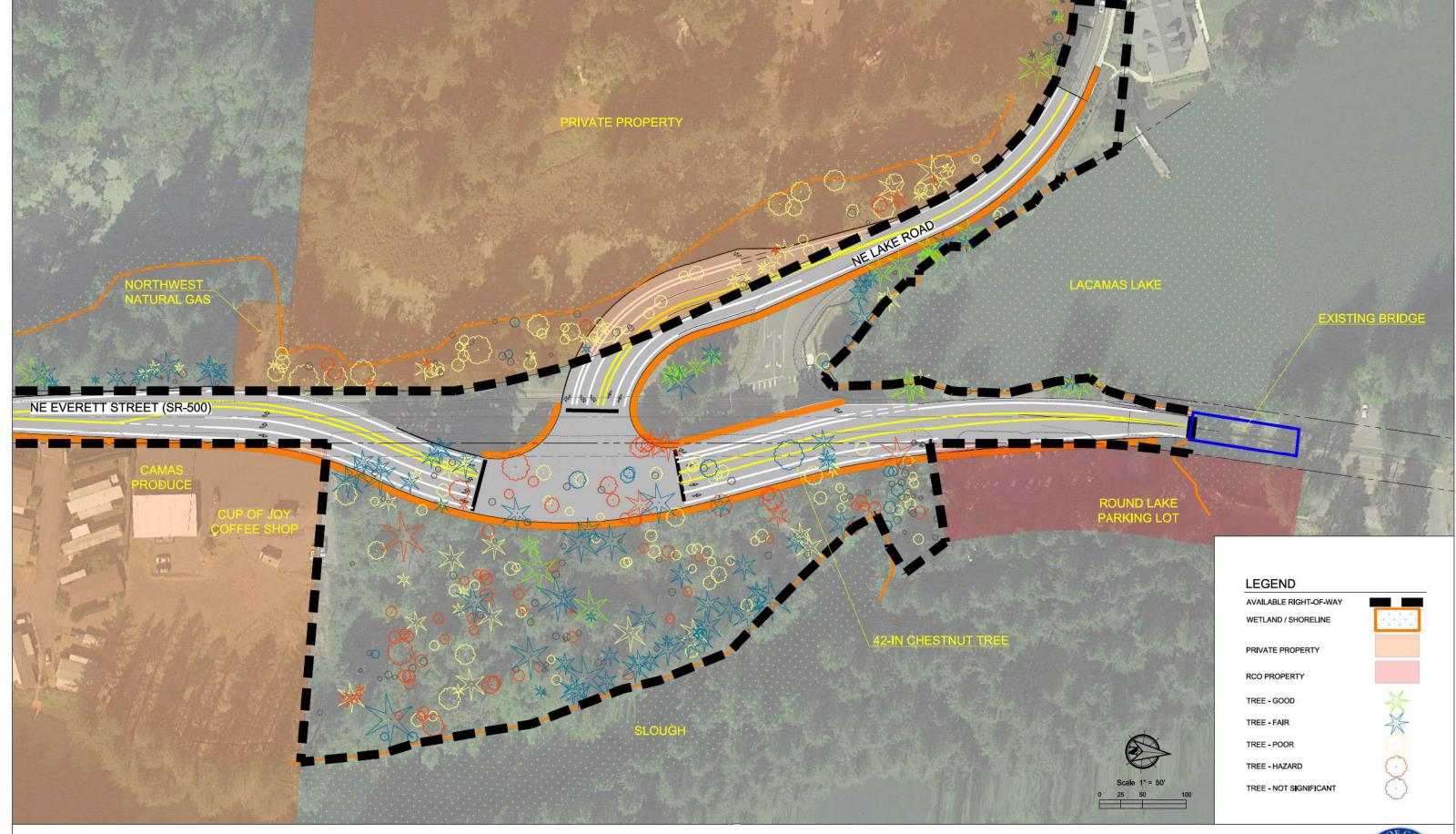






LAKE RD & EVERETT ST INTERSECTION IMPROVEMENTS SIGNALIZED INTERSECTION - ALTERNATIVE 1

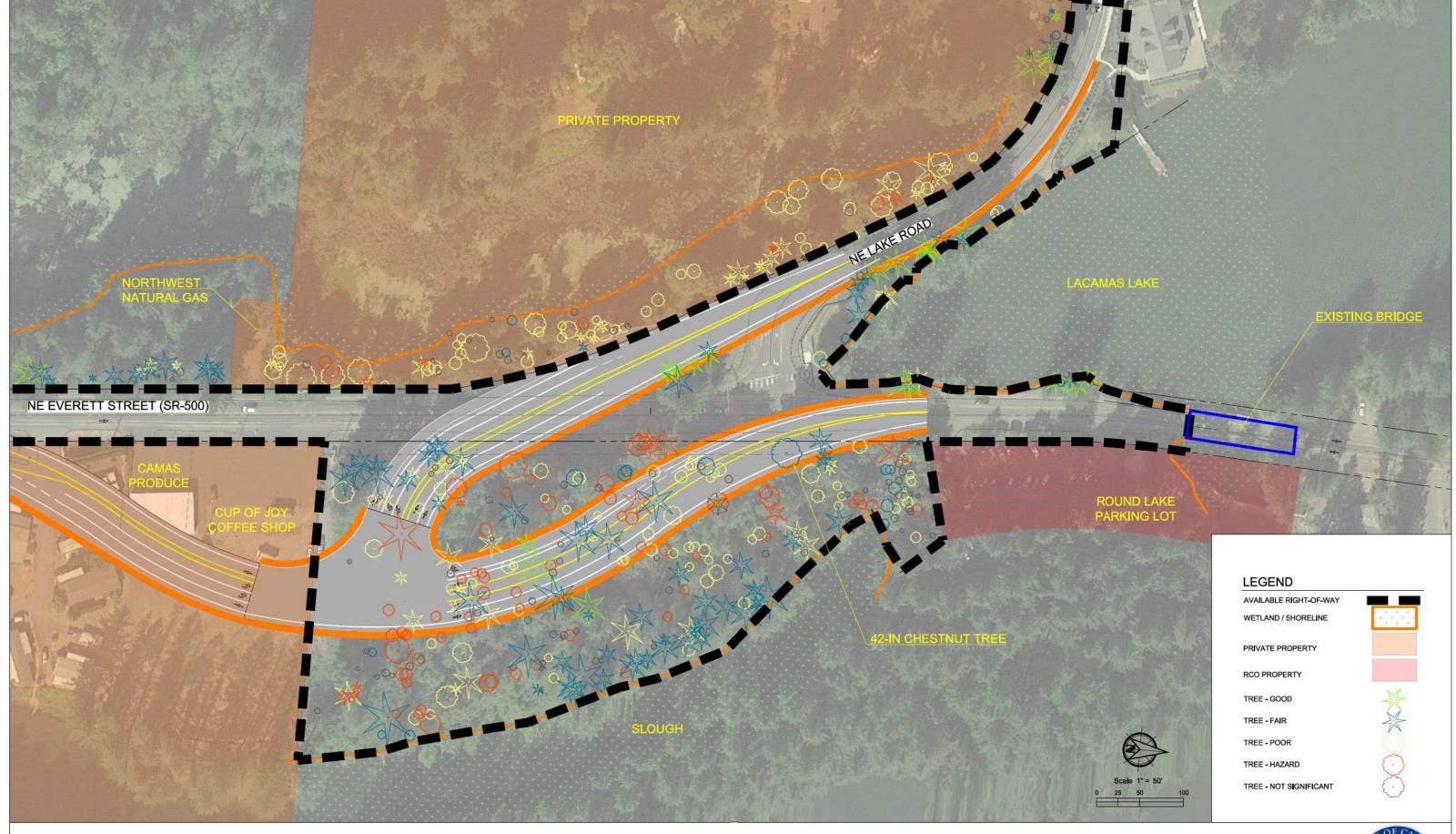






LAKE RD & EVERETT ST INTERSECTION IMPROVEMENTS SIGNALIZED INTERSECTION - ALTERNATIVE 2

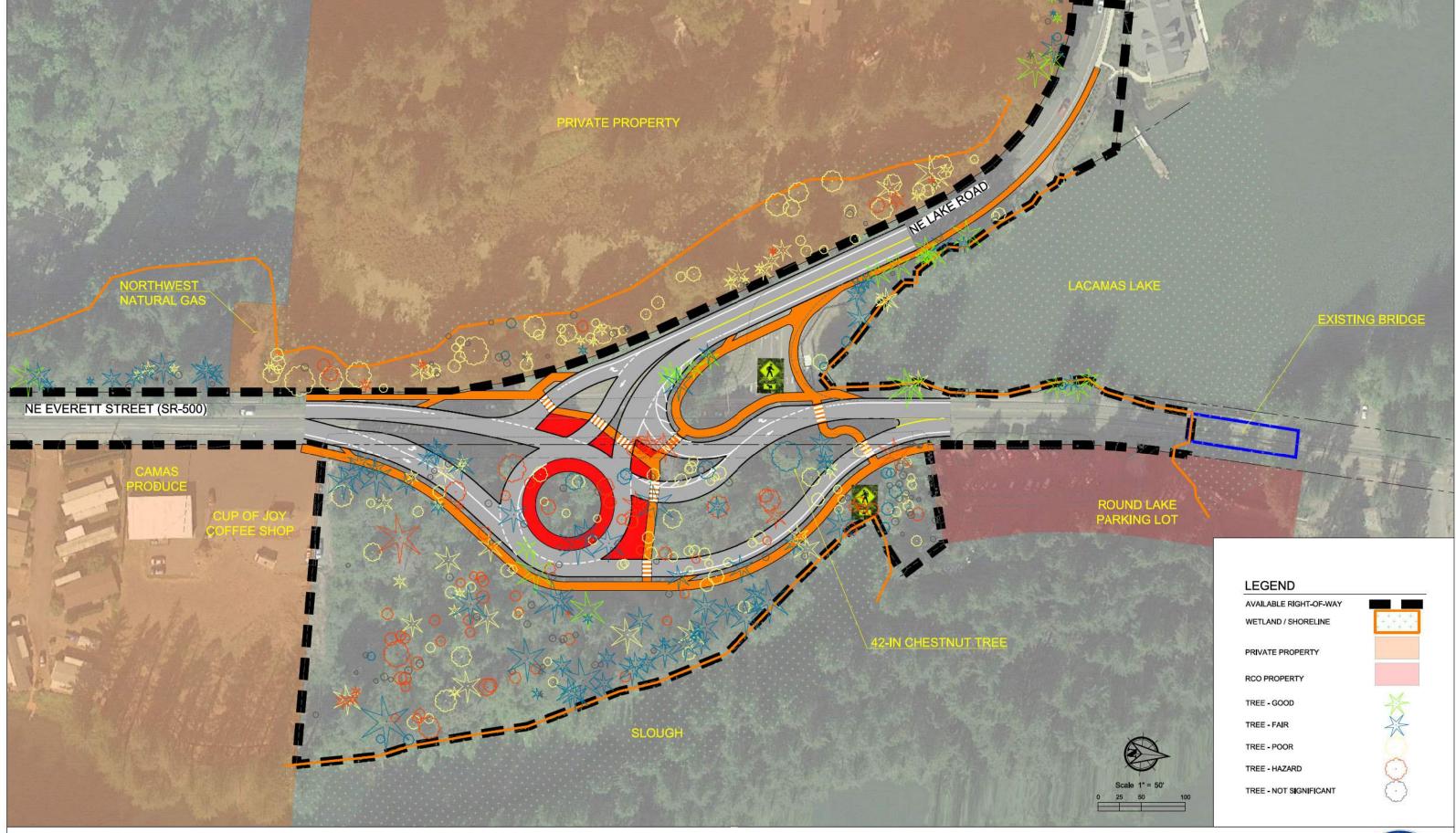






LAKE RD & EVERETT ST INTERSECTION IMPROVEMENTS SIGNALIZED INTERSECTION - ALTERNATIVE 3

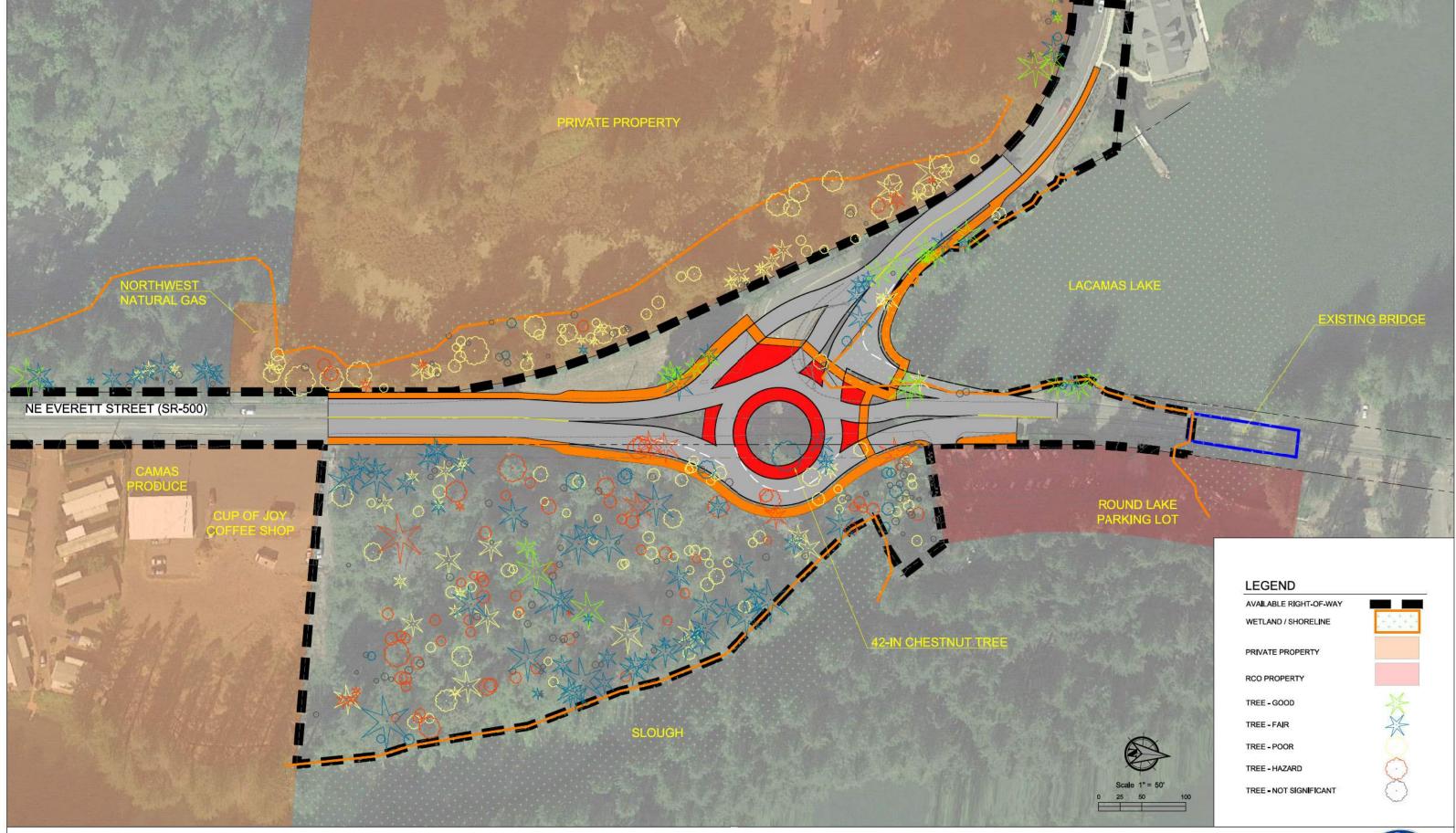






LAKE RD & EVERETT ST INTERSECTION IMPROVEMENTS ROUNDABOUT ALTERNATIVE 1

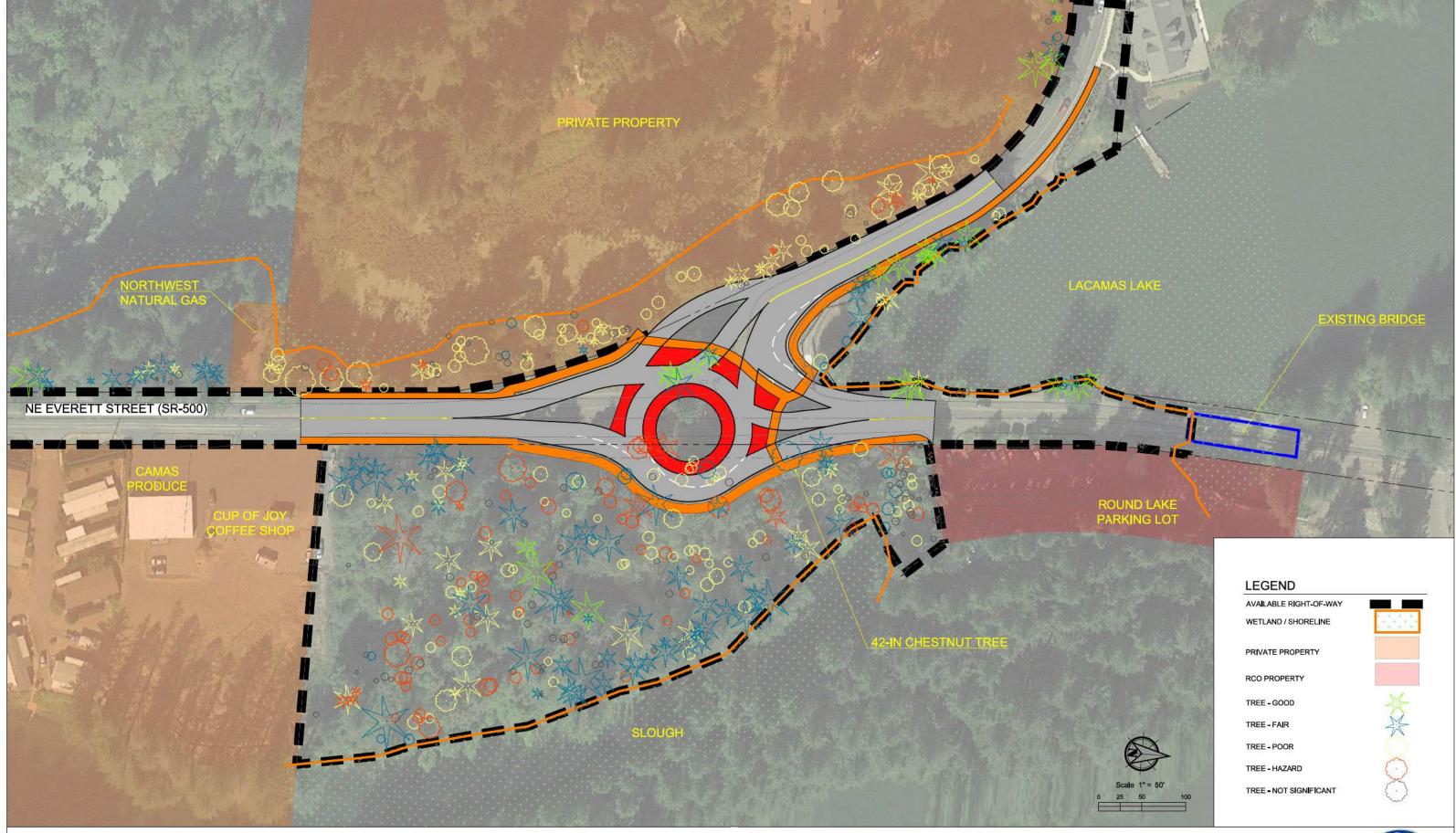






LAKE RD & EVERETT ST INTERSECTION IMPROVEMENTS ROUNDABOUT ALTERNATIVE 2







LAKE RD & EVERETT ST INTERSECTION IMPROVEMENTS ROUNDABOUT ALTERNATIVE 3



Appendix B Cost Estimates

Concept Engineer's Estimate Prepared by PBS Cost Summary by Alternative March 12, 2019

		Signal				
Item	Alt 1	Alt 2	Alt 3	Alt 1	Alt 2	Alt 3
Roadway Improvements*	\$6,430,000	\$6,430,000	\$6,430,000	\$5,850,000	\$5,850,000	\$5,850,000
Bridge Replacement*	\$9,470,000	\$0	\$0	\$0	\$0	\$0
Round Lake Parking Impacts*	\$660,000	\$0	\$0	\$0	\$0	\$0
Private Property Impact	\$330,000	\$680,000	\$3,240,000	\$25,000	\$35,000	\$105,000
City Property Impact	\$225,000	\$475,000	\$625,000	\$505,000	\$150,000	\$140,000
Utility Adjustment & Relocation*	\$1,170,000	\$1,220,000	\$270,000	\$270,000	\$1,090,000	\$1,120,000
Construction Staging/Traffic Control	\$1,330,000	\$900,000	\$900,000	\$180,000	\$1,160,000	\$1,160,000
Walls	\$0	\$0	\$0	\$0	\$1,630,000	\$390,000
Wetland Impacts (Direct)	\$0	\$45,000	\$0	\$0	\$110,000	\$0
Total Cost	\$19,620,000	\$9,750,000	\$11,470,000	\$6,830,000	\$10,030,000	\$8,770,000

Cost Add Alternatives	Additive Costs
Project Aesthetics	\$500,000 - \$1,000,000
Pedestrian Overpass	\$2,750,000
Additional Parking	\$660,000

Concept Engineer's Estimate Prepared by PBS Baseline Signalized Alternative Roadway Improvement Cost March 12, 2019

Item No.	Quantity	Unit	Description		Unit Price	(Combined Total
1	1		Mobilization (10%)	\$	330,000.00	\$	330,000
2	1	LS	Construction Surveying (1.5%)	\$	50,000.00	\$	50,000
			Preparation				
3		LS	Clearing and Grubbing	\$	20,000.00	\$	20,000
4	1	LS	Removal of Structures and Obstructions	\$	122,000.00	\$	122,000
			Grading				
5	14,000	CY	Roadway Excavation Incl. Haul	\$	25.00	\$	350,000
6	14,000		Gravel Borrow Incl. Haul	\$	20.00	\$	280,000
	0.400	TON	Surfacing	Φ.	00.00	Φ.	057.000
7	9,400		Crushed Surfacing Base Course	\$	38.00	\$	357,200
8	4,800	ION	HMA CL 1/2" PG 70-22	\$	120.00	\$	576,000
			Storm Sewer				
9	2,150	LF	Schedule A Storm Sewer Pipe	\$	80.00	\$	172,000
10	22	EA	Catch Basin	\$	2,000.00	\$	44,000
11	13	EA	Manhole 48 In. Diam	\$	3,500.00	\$	45,500
12	1	LS	Water Quality	\$	100,000.00	\$	100,000
			Erosion Control and Water Pollution Control				
13	1	LS	Erosion Control and Water Pollution Control	\$	20,000.00	\$	20,000
				,	,		
4.4	04 500	05	Roadside Restoration	Φ.	0.00	Φ.	470.000
14	21,500	SF	Basic Landscaping	\$	8.00	\$	172,000
			Other Items				
15	4,100	LF	Cement Conc. Traffic Curb	\$	35.00	\$	143,500
16	2,200	SY	Cement Conc. Sidewalk	\$	90.00	\$	198,000
17	6	EA	Cement Conc. Curb Ramp	\$	3,500.00	\$	21,000
18	11	EA	Field Adjustment for Utility Crossings	\$	5,000.00	\$	55,000
19	17	EA	Existing Utility Structure Adjustment	\$	2,500.00	\$	42,500
20	1	LS	Illumination System	\$	190,000.00	\$	190,000
21	1	LS	Signal	\$	350,000.00	\$	350,000
21	1	LS	Permanent Signing	\$	25,000.00	\$	25,000
22	1	LS	Permanent Striping	\$	20,000.00	\$	20,000
23	2,150	LF	Joint Utility Trench	\$	10.00	\$	21,500
24	1	LS	RRFB	\$	100,000.00	\$	100,000
		_	Total			\$	3,805,000
			Contingency (30%)			\$	1,141,000
			Construction Total			\$	4,946,000
			Engineering PS+E (15%)			\$	742,000
			Construction Management (15%)			\$	742,000
			Total			\$	6,430,000

Concept Engineer's Estimate Prepared by PBS Baseline Roundabout Alternative Roadway Improvement Cost March 12, 2019

Item No.	Quantity	Unit	Description		Unit Price	(Combined Total
1		LS	Mobilization (10%)	\$	300,000.00	\$	300,000
2		LS	Construction Surveying (1.5%)	\$	45,000.00		45,000
			, ,		,		,
			Preparation	_		_	
3		LS	Clearing and Grubbing	\$	20,000.00	\$	20,000
4	1	LS	Removal of Structures and Obstructions	\$	130,000.00	\$	130,000
			Grading				
5	10,000		Roadway Excavation Incl. Haul	\$	25.00	\$	250,000
6	10,000	CY	Gravel Borrow Incl. Haul	\$	20.00	\$	200,000
			Surfacing				
7	4,100	TON	Crushed Surfacing Base Course	\$	38.00	\$	156,000
8	1,900		HMA CL 1/2" PG 70-22	\$	120.00		228,000
			Otoma Comon				
9	1,500	1 =	Storm Sewer Schedule A Storm Sewer Pipe	\$	80.00	\$	120,000
10		EA	Catch Basin	<u>Ψ</u>	2,000.00	\$	30,000
11		EA	Manhole 48 In. Diam	<u>Ψ</u>	3,500.00		35,000
12		LS	Water Quality	<u>Ψ</u>	100,000.00		100,000
				Ψ		<u> </u>	.00,000
40		1.0	Erosion Control and Water Pollution Control		00 000 00	•	00.000
13	1	LS	Erosion Control and Water Pollution Control	\$	20,000.00	\$	20,000
			Roadside Restoration				
14	54,000	SF	Basic Landscaping	\$	8.00	\$	432,000
			Other Items				
15	4,700	LF	Cement Conc. Traffic Curb	\$	35.00	\$	164,500
16	850	LF	Cement Conc. Roundabout Curb	\$	50.00	\$	42,500
17	750		Cement Conc. Pavement	\$	800.00	\$	600,000
18	2,100		Cement Conc. Sidewalk	\$	90.00	\$	189,000
19		EA	Cement Conc. Curb Ramp	\$	3,500.00	\$	10,500
20	7	EA	Field Adjustment for Utility Crossings	\$	5,000.00	\$	35,000
21	9	EA	Existing Utility Structure Adjustment	\$	2,500.00	\$	22,500
22			Illumination System	\$	170,000.00	\$	170,000
23	1	LS	Permanent Signing	\$	25,000.00	\$	25,000
24		LS	Permanent Striping	\$	20,000.00	\$	20,000
25	1,500		Joint Utility Trench	\$	10.00	\$	15,000
26	1	LS	RRFB	\$	100,000.00	\$	100,000
			Total			\$	3,460,000
			Contingency (30%)			\$	1,040,000
			Construction Total			\$	4,500,000
			Engineering PS+E (15%)			\$ 6	675,000
			Construction Management (15%)			\$	675,000
			Total			\$	5,850,000

Concept Engineer's Estimate Prepared by PBS Round Lake Parking Lot Impact Cost March 12, 2019

tem No.	Quantity	Unit	Description		Unit Price	С	ombined Total
1	1	LS	Mobilization (10%)	\$	34,000.00	\$	34,00
2		LS	Construction Surveying (1.5%)	\$	5,100.00	\$	5,10
			Traffic Control				
3	1	LS	Project Temporary Traffic Control (15%)	\$	51,000.00	\$	51,00
3	<u> </u>	LO	Project Temporary Trainic Control (15%)	φ	51,000.00	Φ	51,00
			Preparation				
4		LS	Clearing and Grubbing	\$	5,000.00		5,00
5	1	LS	Removal of Structures and Obstructions	\$	15,000.00	\$	15,00
			Grading				
6	1,000	CY	Earthwork	\$	25.00	\$	25,00
			Surfacing				
7		TON	Crushed Surfacing Base Course	\$	38.00	\$	23,18
8	510	TON	HMA CL 1/2" PG 70-22	\$	120.00	\$	61,20
			Storm Sewer				
9	300		Schedule A Storm Sewer Pipe	\$	80.00	\$	24,00
10		EA	Catch Basin	\$	2,000.00		8,00
11		EA	Manhole 48 In. Diam	\$	3,500.00		10,50
12	1	LS	Water Quality	\$	27,000.00	\$	27,00
			Erosion Control and Water Pollution Control				
13	1	LS	Erosion Control and Water Pollution Control	\$	10,000.00	\$	10,00
			Other Items				
14	600	1 F	Cement Conc. Traffic Curb	\$	35.00	\$	21,00
15	120		Cement Conc. Sidewalk	\$	90.00	\$	10,80
16		EA	Cement Conc. Curb Ramp	\$	3,500.00	\$	7,00
			Total			\$	338,00
			Contingency (30%)			\$	102,00
			Construction Total			\$	440,00
	15,000		Property Acquisition	\$	5.00	\$	75,00
	1	EA	Property Acquisition Process	\$	15,000.00	\$	15,00
			Engineering PS+E (15%)			\$	65,00
			Construction Management (15%)			\$	65,00
			Total			\$	660,00

Concept Engineer's Estimate Prepared by PBS Everett Street Bridge Replacement Cost March 12, 2019

tem No.	Quantity	Unit	Description		Unit Price	(Combined Total
1		LS	Mobilization (10%)	\$	560,000.00	\$	560,000
2		LS	Construction Surveying (1.5%)	φ \$	90,000.00		90,000
		LO	Construction Surveying (1.5%)	φ	90,000.00	Ф	90,000
			Traffic Control				
3	1	LS	Project Temporary Traffic Control (20%)	\$	1,120,000.00	\$	1,120,000
			Preparation				
4	1	LS	Clearing and Grubbing	\$	10,000.00	\$	10,00
5		LS	Removal of Structures and Obstructions	\$	5,000.00		5,000
			Grading				
6	2,000	CY	Roadway Excavation Incl. Haul	\$	25.00	\$	50,000
7	6,000		Gravel Borrow Incl. Haul	\$	20.00		120,000
			Surfacing				
8	1,650		Crushed Surfacing Base Course	\$	38.00		62,70
9	790	TON	HMA CL 1/2" PG 70-22	\$	120.00	\$	94,80
			Storm Sewer				
10	450		Schedule A Storm Sewer Pipe	\$	80.00	\$	36,000
11		EA	Catch Basin	\$	2,000.00		10,00
12		EA	Manhole 48 In. Diam	\$	3,500.00		14,000
13	1	LS	Water Quality	\$	32,000.00	\$	32,00
			Erosion Control and Water Pollution Control				
14	1	LS	Erosion Control and Water Pollution Control	\$	50,000.00	\$	50,000
			Other Items				
15	1	LS	Temporary Bridge	\$	2,420,000.00	\$	2,420,000
16		LS	Retaining Walls	\$	800,000.00		800,000
17	900	LF	Cement Conc. Traffic Curb	\$	35.00		31,50
18	700	SY	Cement Conc. Sidewalk	\$	90.00	\$	63,000
19		EA	Cement Conc. Curb Ramp	\$	3,500.00	\$	14,00
			Total			\$	5,590,00
			Contingency (30%)			\$	1,680,00
			Construction Total			\$	7,270,00
			Engineering PS+E (15%)			\$	1,100,00
			Construction Management (15%)			\$	1,100,000
			Total			\$	9,470,00

Concept Engineer's Estimate Prepared by PBS Alternative-Dependent Cost Summary (Signal Alternative 1) March 12, 2019

Item No.	Quantity	Unit	Description		Unit Price	(Combined Total
			OTHER COSTS FOR SIGNAL ALTERNATIVE 1				
			Wetland Impacts				
1	-	Acre	Wetland Impact	\$	300,000.00	\$	-
2	-	LS	Wetland Impact Permitting	\$	30,000.00	\$	-
			Wetland Impact Subtotal			\$	
			Contingency (30%)				-
			Wetland Impact Total			\$	
			Wetianu impact rotai			φ	-
			Retaining Walls				
3	-	SF	Retaining Walls	\$	65.00	\$	-
			Retaining Wall Subtotal			\$	-
			Contingency (30%)			\$	-
			Construction Total			\$	-
			Engineering PS+E (15%)			\$	-
			Construction Management (15%)			\$	-
			Retaining Wall Total			\$	-
			Traffic Control/Staging				
4	2,100	I E	Barrier	\$	40.00	\$	84,000
5			Flagging	<u>Ψ</u>	4,800.00	\$	76,000
6	1	LS	Misc Traffic Control	\$	50,000.00	\$	50,000
7	<u> </u>	EA	Temp Signal	\$	150,000.00		150,000
8	1	LS	Staging	\$	660,000.00	\$	660,000
			3 3	· ·			
			Traffic Control/Staging Subtotal			\$	1,020,000
			Contingency (30%)			\$	310,000
			Traffic Control/Staging Total			\$	1,330,000
			Debugta Description and Ocata				
•	10.000	C.E.	Private Property Impact Costs	Φ.	10.00	.	100.000
9	19,000	EA	Property Acquisition Property Acquisition Processing	\$ \$	10.00 15,000.00	\$	190,000 60,000
11	4	EA	Relocation (Commercial)	\$	1,000,000.00	\$	00,000
12		EA	Relocation (Residential)	<u>Ψ</u>	250,000.00	\$	<u> </u>
12		L1 \	Tologation (Tologontial)	Ψ	200,000.00	Ψ	
			Private Property Impact Subtotal			\$	250,000
			Contingency (30%)			\$	80,000
			Private Property Impact Total			\$	330,000
			· · ·				· · · · · · · · · · · · · · · · · · ·
				-			
			City Property Impact (Legacy Lands)				
13	32,000	SF	Legacy Lands Acquisition	\$	5.00	\$	160,000
			Olfe Burn out Out 4-4-1			_	400.000
			City Property Subtotal			\$	160,000
	4	EA	Contingency (30%) Property Acquisition Processing			\$	50,000 15,000
	1	CA	City Property Total			\$	
			City Property Total			\$	225,000

Concept Engineer's Estimate Prepared by PBS Alternative-Dependent Cost Summary (Signal Alternative 1) March 12, 2019

em No.	Quantity	Unit	Description	Unit Price	(Combined Total
			Utility Impact Costs			
14	13	EA	Overhead Utility Pole Relocations (by Others)	\$ 10,000.00	\$	130,000
15	1	LS	Overhead Realignment (by Others)	\$ 500,000.00	\$	500,000
			Utility Impact Subtotal		\$	630,000
			Contingency (30%)		\$	190,000
			Construction Total		\$	820,000
	11,000	SF	Easement	\$ 10.00	\$	110,000
			Engineering PS+E (15%)		\$	120,000
			Construction Management (15%)		\$	120,000
			Utility Impact Total		\$	1,170,000

Concept Engineer's Estimate Prepared by PBS Alternative-Dependent Cost Summary (Signal Alternative 2) March 12, 2019

Item No.	Quantity	Unit	Description		Unit Price	C	ombined Total
			OTHER COSTS FOR SIGNAL ALTERNATIVE 1				
			Wetland Impacts	_			= 000
1		Acre	Wetland Impact	\$	300,000.00	\$	5,000
2	1	LS	Wetland Impact Permitting	\$	30,000.00	\$	30,000
			Wetland Impact Subtotal			\$	35,000
			Contingency (30%)			\$	10,000
			Wetland Impact Total			\$	45,000
			Data in in at Walla				
3		SF	Retaining Walls Retaining Walls	\$	65.00	\$	_
		<u> </u>		Ψ	00.00	Ψ	
			Retaining Wall Subtotal			\$	-
			Contingency (30%)			\$	-
			Construction Total			\$	-
			Engineering PS+E (15%)			\$	-
			Construction Management (15%)			\$	
			Retaining Wall Total			\$	-
			Traffic Control/Staging				
4	2,100	I F	Barrier	\$	40.00	\$	84,000
5		Week	==:::=:	\$	4,800.00	\$	76,000
6	10	LS	Misc Traffic Control	\$	50,000.00	\$	50,000
7	1	EA	Temp Signal	\$	150,000.00		150,000
8	1	LS	Staging	\$	330,000.00	\$	330,000
			Traffic Control/Staging Subtotal			\$	690,000
			Contingency (30%)			\$	210,000
			Traffic Control/Staging Total			\$	900,000
			District Branch Lawrence Control				
9	21,400	SF	Private Property Impact Costs Property Acquisition	\$	10.00	\$	214,000
10	4	EA	Property Acquisition Processing	\$	15,000.00	\$	60,000
11		EA	Relocation (Commercial)	\$	1,000,000.00	\$	- 00,000
12	1	EA	Relocation (Residential)	\$	250,000.00	\$	250,000
			Private Property Impact Subtotal			\$	524,000
			Contingency (30%)			\$	156,000
			Private Property Impact Total			\$	680,000
13	70,000	SF	City Property Impact (Legacy Lands) Legacy Lands Acquisition	\$	5.00	\$	350,000
10	70,000	51		Ψ	5.00		
			City Property Subtotal			\$	350,000
	4	ΕΛ	Contingency (30%)			\$	110,000
	1	EA	Property Acquisition Processing			\$	15,000
			City Property Total			\$	475,000

Concept Engineer's Estimate Prepared by PBS Alternative-Dependent Cost Summary (Signal Alternative 2) March 12, 2019

em No.	Quantity	Unit	Description	Unit Price	(Combined Total
			Utility Impact Costs			
14	15	EA	Overhead Utility Pole Relocations (by Others)	\$ 10,000.00	\$	150,000
15	1	LS	Overhead Realignment (by Others)	\$ 500,000.00	\$	500,000
			Utility Impact Subtotal		\$	650,000
			Contingency (30%)		\$	200,000
			Construction Total		\$	850,000
	11,000	SF	Easement	\$ 10.00	\$	110,00
			Engineering PS+E (15%)		\$	130,00
			Construction Management (15%)		\$	130,00
			Utility Impact Total		\$	1,220,000

Concept Engineer's Estimate Prepared by PBS Alternative-Dependent Cost Summary (Signal Alternative 3) March 12, 2019

tem No.	Quantity	Unit	Description		Unit Price		Combined Total
			OTHER COSTS FOR SIGNAL ALTERNATIVE 1				
			Wetland Impacts	_		_	
1	-	Acre	Wetland Impact	\$	300,000.00	\$	-
2	-	LS	Wetland Impact Permitting	\$	30,000.00	\$	-
			Wetland Impact Subtotal			\$	-
			Contingency (30%)			\$	-
			Wetland Impact Total			\$	-
			Retaining Walls		25.00		
3	-	SF	Retaining Walls	\$	65.00	\$	-
			Retaining Wall Subtotal			\$	-
			Contingency (30%)			\$	-
			Construction Total			\$	-
			Engineering PS+E (15%)			\$	-
			Construction Management (15%)			\$	-
			Retaining Wall Total			\$	-
			Traffic Control/Staging				
4	2,100		Barrier	\$	40.00	\$	84,00
5		Week		\$	4,800.00	\$	76,00
6	1	LS	Misc Traffic Control	\$	50,000.00	\$	50,00
7	1	EA	Temp Signal	\$	150,000.00		150,00
8	1	LS	Staging	\$	330,000.00	\$	330,00
			Traffic Control/Staging Subtotal			\$	690,00
			Contingency (30%)			\$	210,00
			Traffic Control/Staging Total			\$	900,00
9	68,200	6 E	Private Property Impact Costs Property Acquisition	\$	10.00	\$	682,00
10	4	EA	Property Acquisition Processing	- э \$	15,000.00	\$	60,00
11	<u>4</u> 1	EA	Relocation (Commercial)	<u> </u> \$	1,000,000.00	<u>φ</u> \$	1,000,00
12	3	EA	Relocation (Residential)	\$	250,000.00	\$	750,00
			Debut Description of Orbital			•	0.400.00
			Private Property Impact Subtotal			\$	2,492,00
			Contingency (30%)			\$	748,00
			Private Property Impact Total			\$	3,240,00
			City Property Impact (Legacy Lands)				
13	94,000	SF	Legacy Lands Acquisition	\$	5.00	\$	470,00
			City Property Subtotal			\$	470,00
			Contingency (30%)			\$	140,00
	1	EA	Property Acquisition Processing			\$	15,00
	<u>·</u>	•	City Property Total			\$	625,00

Concept Engineer's Estimate Prepared by PBS Alternative-Dependent Cost Summary (Signal Alternative 3) March 12, 2019

em No.	Quantity	Unit	Description	Unit Price	С	ombined Total
			Utility Impact Costs			
14	9	EA	Overhead Utility Pole Relocations (by Others)	\$ 10,000.00	\$	90,000
15	-	LS	Overhead Realignment (by Others)	\$ 500,000.00	\$	-
			Utility Impact Subtotal		\$	90,000
			Contingency (30%)		\$	30,000
			Construction Total		\$	120,000
	11,000	SF	Easement	\$ 10.00	\$	110,000
			Engineering PS+E (15%)		\$	20,000
			Construction Management (15%)		\$	20,000
			Utility Impact Total		\$	270,000

Concept Engineer's Estimate Prepared by PBS Alternative-Dependent Cost Summary (Roundabout Alternative 1) March 12, 2019

em No.	Quantity	Unit	Description		Unit Price	ombined Total
0111 110.		O i iii	OTHER COSTS FOR SIGNAL ALTERNATIVE	1	Gille i i iloc	
			Wetland Impacts			
1	-	Acre	Wetland Impact	\$	300,000.00	\$ -
2	-	LS	Wetland Impact Permitting	\$	30,000.00	\$ -
			·	<u> </u>	•	
			Wetland Impact Subtotal			\$ -
			Contingency (30%)			\$ -
			Wetland Impact Total			\$ -
			Retaining Walls		25.00	
3	-	SF	Retaining Walls	\$	65.00	\$ -
			Retaining Wall Subtotal			\$ -
			Contingency (30%)			\$ -
			Construction Total			\$ -
			Engineering PS+E (15%)			\$ -
			Construction Management (15%)			\$ -
			Retaining Wall Total			\$ -
			Traffic Control/Staging			
4	775		Barrier	\$	40.00	\$ 31,0
5			Flagging	\$	4,800.00	\$ 58,0
6	1	LS	Misc Traffic Control	\$	50,000.00	\$ 50,0
7	-	EA	Temp Signal	\$	150,000.00	\$ -
8	-	LS	Staging	\$	300,000.00	\$ -
			Traffic Control/Staging Subtotal			\$ 139,0
			Contingency (30%)			\$ 41,0
			Traffic Control/Staging Total			\$ 180,0
9	500	ee.	Private Property Impact Costs Property Acquisition	Φ.	10.00	\$ 5,0
10	1	EA	Property Acquisition Processing	\$ \$	15,000.00	\$ 15,0
11	<u> </u>	EA	Relocation (Commercial)	\$	1,000,000.00	\$ 15,0
12	-	EA	Relocation (Residential)	\$	250,000.00	\$
			· · · · · · · · · · · · · · · · · · ·	·		
			Private Property Impact Subtotal			\$ 20,0
			Contingency (30%)			\$ 5,0
			Private Property Impact Total			\$ 25,0
			City Property Impact (Legacy Lands)			
13	75,000	SF	Legacy Lands Acquisition	\$	5.00	\$ 380,0
			City Property Subtotal			\$ 380,0
			Contingency (30%)			\$ 110,0
	1	EA	Property Acquisition Processing			\$ 15,0

Concept Engineer's Estimate Prepared by PBS Alternative-Dependent Cost Summary (Roundabout Alternative 1) March 12, 2019

tem No.	Quantity	Unit	Description	Unit Price	Total
			Utility Impact Costs		
14	9	EA	Overhead Utility Pole Relocations (by Others)	\$ 10,000.00	\$ 90,000
15	-	LS	Overhead Realignment (by Others)	\$ 500,000.00	\$ -
			Utility Impact Subtotal		\$ 90,000
			Contingency (30%)		\$ 30,000
			Construction Total		\$ 120,000
	11,000	SF	Easement	\$ 10.00	\$ 110,000
			Engineering PS+E (15%)		\$ 20,000
			Construction Management (15%)		\$ 20,000
			Utility Impact Total		\$ 270,000
			Utility Impact Total		\$ 2

Concept Engineer's Estimate Prepared by PBS Alternative-Dependent Cost Summary (Roundabout Alternative 2) March 12, 2019

tem No.	Quantity	Unit	Description		Unit Price		Combined Total
			OTHER COSTS FOR SIGNAL ALTERNATIVE 1				
4	0.40		Wetland Impacts	•	000 000 00	•	FF 00/
1		Acre	Wetland Impact	\$	300,000.00	\$	55,000
2	1	LS	Wetland Impact Permitting	\$	30,000.00	\$	30,000
			Wetland Impact Subtotal			\$	85,000
			Contingency (30%)			\$	25,000
			Wetland Impact Total			\$	110,000
			Retaining Walls				
3	1	LS	Lake Retaining Wall	\$	960,000.00	\$	960,000
			Retaining Wall Subtotal			\$	960,000
			Contingency (30%)			\$	290,000
			Construction Total			\$	1,250,000
			Engineering PS+E (15%)			\$	190,000
			Construction Management (15%)			\$	190,000
			Retaining Wall Total			\$	1,630,000
			Traffic Control/Staging				
4	775	IF	Barrier	\$	40.00	\$	31,000
5			Flagging	\$	4,800.00	\$	58,000
6	1	LS	Misc Traffic Control	\$	50,000.00	\$	50,000
7	1	EA	Temp Signal	\$	150,000.00	\$	150,000
8	1	LS	Staging	\$	600,000.00	\$	600,000
			Traffic Control/Staging Subtotal			\$	890,000
			Contingency (30%)			\$	270,000
			Traffic Control/Staging Total			\$	1,160,000
			Private Property Impact Costs				
9	1,200	SF	Property Acquisition	\$	10.00	\$	12,000
10	1	EA	Property Acquisition Processing	\$	15,000.00	\$	15,000
11	-	EA	Relocation (Commercial)	\$	1,000,000.00	\$	-
12	-	EA	Relocation (Residential)	\$	250,000.00	\$	-
			Private Property Impact Subtotal Contingency (30%)			\$	27,000
			Private Property Impact Total			\$	35,000
13	21,000	SF	City Property Impact (Legacy Lands) Legacy Lands Acquisition	\$	5.00	\$	105,000
	21,000	<u> </u>		Ψ	0.00		
			City Property Subtotal			\$	105,000
	1	EA	Contingency (30%) Property Acquisition Processing			\$	30,000 15,000
			L LODGLOV AGGUIANION ETOGGAANIO				

Concept Engineer's Estimate Prepared by PBS Alternative-Dependent Cost Summary (Roundabout Alternative 2) March 12, 2019

Item No.	Quantity Unit		Description	Unit Price	(Combined Total	
			Utility Impact Costs				
14	8	EA	Overhead Utility Pole Relocations (by Others)	\$ 10,000.00	\$	80,000	
15	1	LS	Overhead Realignment (by Others)	\$ 500,000.00	\$	500,000	
			Utility Impact Subtotal		\$	580,000	
			Contingency (30%)		\$	180,000	
			Construction Total		\$	760,000	
	11,000	SF	Easement	\$ 10.00	\$	110,000	
			Engineering PS+E (15%)		\$	110,000	
			Construction Management (15%)		\$	110,000	
			Utility Impact Total		\$	1,090,000	

Concept Engineer's Estimate Prepared by PBS Alternative-Dependent Cost Summary (Roundabout Alternative 3) March 12, 2019

tem No.	Quantity	Unit	Description		Unit Price		Combined Total
			OTHER COSTS FOR SIGNAL ALTERNATIVE 1				
		_	Wetland Impacts				
1	-	Acre	Wetland Impact	\$	300,000.00	\$	-
2	-	LS	Wetland Impact Permitting	\$	30,000.00	\$	-
			Wetland Impact Subtotal			\$	-
			Contingency (30%)			\$	-
			Wetland Impact Total			\$	-
			Retaining Walls				
3	3,500	SF	Lake Retaining Wall	\$	65.00	\$	228,00
			Retaining Wall Subtotal			\$	228,00
			Contingency (30%)			\$	70,00
			Construction Total			\$	298,00
			Engineering PS+E (15%)			\$	46,00
			Construction Management (15%)			\$	46,00
			Retaining Wall Total			\$	390,00
			T (1) A 1 101				
4	775	1.5	Traffic Control/Staging Barrier	Φ.	40.00	Φ.	24.00
<u>4</u> 5			— -····	\$	40.00	\$ \$	31,00
6	12	LS	Flagging Misc Traffic Control	\$ \$	4,800.00 50,000.00	\$	58,00 50,00
7	<u>1</u>	EA	Temp Signal	\$	150,000.00	\$	150,00
8	1	LS	Staging Staging	\$	600,000.00	\$	600,00
			Traffic Control/Staging Subtotal			\$	890,00
			Contingency (30%)			\$	270,00
			Traffic Control/Staging Total			\$	1,160,00
			Duivete Dranasty Impact Coats				
9	5,000	QE.	Private Property Impact Costs Property Acquisition	Ф.	10.00	Φ	50,00
10		EA	Property Acquisition Processing	\$ \$	15,000.00	\$ \$	30,00
11		EA	Relocation (Commercial)	<u>Ψ</u>	1,000,000.00	\$	30,00
12	-	EA	Relocation (Residential)	\$	250,000.00	\$	<u>-</u>
			Private Property Impact Subtotal			\$	80,0
			Contingency (30%) Private Property Impact Total			\$ \$	25,00 105,0 0
40	40.000	C.E.	City Property Impact (Legacy Lands)	•	F.00	·	05.0
13	19,000	51	Legacy Lands Acquisition	\$	5.00	\$	95,00
			City Property Subtotal			\$	95,0
			Contingency (30%)			\$	30,00
	1	EA	Property Acquisition Processing			\$	15,00
			City Property Total			\$	140,0

Concept Engineer's Estimate Prepared by PBS Alternative-Dependent Cost Summary (Roundabout Alternative 3) March 12, 2019

tem No.	Quantity	Unit	Description	Unit Price	(Combined Total
			Utility Impact Costs	 		
14	9	EA	Overhead Utility Pole Relocations (by Others)	\$ 10,000.00	\$	90,000
15	1	LS	Overhead Realignment (by Others)	\$ 500,000.00	\$	500,000
			Utility Impact Subtotal		\$	590,000
			Contingency (30%)		\$	180,000
			Construction Total		\$	770,000
	11,000	SF	Easement	\$ 10.00	\$	110,000
			Engineering PS+E (15%)		\$	120,000
			Construction Management (15%)		\$	120,000
			Utility Impact Total		\$	1,120,000
			Utility Impact Total		\$	1,12

Appendix C Draft Traffic Report



INTERSECTION CONTROL MEMORANDUM

NE Lake Road/SR500 (NE Everett Street) Intersection Traffic Operations Analysis

Date: February 7, 2019 KAI Project #:23377

To: City of Camas

From: Hermanus Steyn, PE & Jamestaun Kraupp, EI

cc: Greg Jellison, PE & Cory Kratovil, PE

The City of Camas is conducting a planning and design project to improve the capacity and traffic conditions at the intersection of NE Lake Road and SR500 (NE Everette Street). The planning portion of this project is an assessment of the existing and projected 2040 conditions at the intersection to inform the intersection control evaluation. Signal and roundabout treatments have been identified as part of an operations analysis to provide the advantages and disadvantages of each. This information will assist the City of Camas define the project improvements moving forward, as well as right-of-way needs to be determined.

This memorandum provides a summary of the planning methodology, analysis, and alternatives considered. Key topics include:

- Existing intersection facilities: pedestrian/bicycle facilities, transit routes, intersection lane configuration, surrounding infrastructure.
- Existing traffic conditions: traffic control, and peak hour conditions.
- Intersection operation analysis assuming 2040 Regional Transportation Council (RTC) traffic volumes for a "No Build" intersection condition.
- Intersection operation analysis assuming 2040 RTC traffic volumes for an improved signalized intersection configuration.
- Intersection operation analysis assuming 2040 RTC traffic volumes for a roundabout configuration.
- A summary of intersection improvement needs and outstanding considerations that should be further discussed with the City of Camas

SUMMARY OF STUDY RECOMMENDATIONS

Table 1 summarizes the intersection control alternatives considered along with detailed considerations for each alternative.

Table 1: Summary of NE Lake Road and NE Everett Street Alternatives

Intersection Alternative	Details/Considerations
No Build	Maintain the existing lane configuration and signal timing of the intersection, with no improvements to the roadway geometry, intersection, or signal timing.
Improved Signalized Intersection	Widen intersection to provide dual left turn lanes with extended pockets along the eastbound and northbound approaches to meet capacity needs in the 2040 condition. Signal retiming optimized for intersection efficiency.
Multilane Roundabout	Implement a multilane roundabout with channelized right turns on the southbound and eastbound approaches to meet capacity needs in the 2040 condition. A roundabout would also provide traffic calming along the SR500 corridor.

PROJECT BACKGROUND

The study T-intersection of NE Lake Road and NE Everett Street is located south of to a pivotal bridge crossing surrounded by three large bodies of water and will be an essential intersection as areas to the north develop. This segment of SR500 is a regional connection to the City of Camas where there is limited access across the bodies of water. Both NE Lake Road and SR500 are classified as minor arterials according to the online Washington Department of Transportation (WSDOT) Functional Classification Map.

This portion of SR500 is a major north-south route connecting the center of downtown Camas to residential areas, educational facilities such as elementary schools, middle schools, and a high school, recreational areas and lodges along the lake, local hikes in the area, and local commercial developments. Figure 1 shows a general vicinity map and the study intersection.

2016 Study of NE Lake Road/SR500 Intersection

In 2016 a previous study, NW 6th Avenue / Everett Street (SR500) Corridor Study PBS Engineering and Environmental and DKS Associates, was completed for the NE Lake Road/SR500 intersection as part of a larger corridor study for the City of Camas. In this study, they defined improvements to intersections and segments of roadway within the city limits. The proposed improvements were based on an operational analysis of alternatives between a roundabout corridor and a signalized corridor with roundabouts at specific intersections.

##- Study Intersections

Site Vicinity Map Camas, Washington Figure 1



INTERSECTION ANALYSIS METHODOLOGY

The signalized stop controlled intersection analyses described in this memorandum were performed in accordance with the procedures stated in the 2000 Highway Capacity Manual using Synchro 7. Analysis of intersection operations with roundabouts was conducted in accordance with the Highway Capacity Manual 6th Editions methodology using HCS7 and WSDOT roundabout methodology guidance.

To ensure the analyses were based on a reasonable worst-case scenario, the intersection evaluation used the weekday AM and PM peak hour volumes from traffic counts completed in January 2019, see Appendix A. The study times were expanded to include revised school start and end times that had been adjusted in the fall of 2018.

The 2040 future volumes were determined by following the National Cooperative Highway Research Program Report 255 (NCHRP 255) *Highway Traffic Data for Urbanized Project Planning and Design* and determining the growth rate based on the existing and 2040 RTC base models.

EXISTING CONDITIONS

The existing conditions analysis identifies the site conditions and current operational and geometric characteristics of the intersection in the study area. Kittelson & Associates, Inc. (Kittelson) staff visited and inventoried the NE Lake Road/SR500 intersection in January 2019. At that time, Kittelson collected information regarding site conditions, adjacent land uses, existing traffic operations, pedestrian facilities, bicycle facilities, transit routes, and lane configuration in the study area.

Traffic Counts

Weekday AM and PM turning movement counts along with tube counts were collected at the intersection of NE Lake Road and NE Everett Street on January 15th, 2019.

- Weekday AM counts conducted from 7:00 9:00 AM, peak hour 7:50 8:50 AM
- Weekday PM counts conducted from 2:30 5:30 PM, peak hour 3:15 4:15 PM

Pedestrian Facilities, Bicycle Facilities, and Transit Routes

Currently, there are limited existing pedestrian and bicycle facilities at the intersection and approaching segments of roadway where there is a lack of active transportation facilities surrounding the study area.

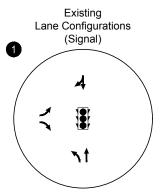
Further, there are no designated transit routes along the corridor.

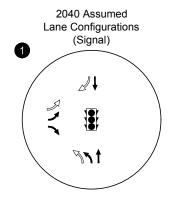
Traffic Operations Analysis

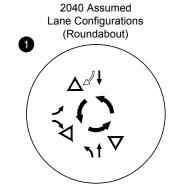
Figure 2 shows the existing lane configurations and traffic control devices at NE Lake Road/SR500 intersection. Figure 3 summarizes the existing intersection traffic volumes and operations. The two analysis periods in the weekday AM and PM were evaluated using signal timing data provided by Clark County, see Appendix B. The existing weekday AM peak hour represents the worst-case condition due to a higher Volume to Capacity Ratio (v/c). See Appendix C for the existing conditions Synchro 7 worksheets.

Figure 2 – Existing A.M. and P.M. peak hour turning movements figure











- TRAFFIC SIGNAL

- ROUNDABOUT

🦪 - PLANNED LANE CHANGE (ADDITION)

Existing & Year 2040 Assumed Lane Configurations & Traffic Control Devices Camas, Washington

Figure 2



LOS = INTERSECTION LEVEL OF SERVICE

Del = INTERSECTION AVERAGE CONTROL DELAY V/C = CRITICAL VOLUME-TO-CAPACITY RATIO Existing & 2040 Traffic Conditions Weekday AM & PM Peak Hours Camas, Washington

Figure 3



FUTURE CONDITIONS ANALYSIS

The 2040 RTC base model for the intersection of NE Lake Road and NE Everett accounts for the future residential, commercial, and industrial development of the City of Camas to the north. This will impact the travel demand patterns and capacity needs of the intersection.

With future development surrounding the study intersection and the existing community infrastructure such as educational facilities like an elementary school, a middle school, high schools, recreational areas and lodges along the lake, trails in the area, and local commercial developments. The future pedestrian volumes were assumed to increase (e.g., 20 pedestrians crossing each leg of the intersection during the peak hour) to reflect the anticipated activity and to be addressed as part of the intersection improvements.

See Appendix D for the 2015 and 2040 RTC Base Model projects for the Intersection.

Analysis Periods

The City of Camas seeks to provide sufficient intersection capacity to accommodate typical peak commuter travel demand. As was documented in the existing conditions analysis, peak travel demand in the study area currently occurs during the weekday AM peak hour. Weekday AM and PM peak hour travel demand model data provided by the RTC indicates that weekday AM peak hour volumes are generally expected to remain higher than the weekday PM peak hour volumes. The future conditions operations analysis focuses on both weekday AM and PM peak hour volumes at the study intersection.

Traffic Volume Development

Future year 2040 intersection turning movement volumes were developed using travel demand model information provided by RTC. Specifically, RTC provided travel demand modeling for base year 2015 and future year 2040 conditions reflecting on the planned regional transportation network for the weekday AM and PM peak hour.

Using the existing year 2019 intersection turn movement counts and the future year 2040 RTC traffic volume projections, year 2040 weekday AM and PM peak hour intersection turn movement projections were developed following the NCHRP 255 post-processing methodology. See Appendix E.

"No-Build" Future Intersection Operations

Future intersection operations were analyzed assuming no signal or other intersection improvements at the study intersection. Analysis of the future study intersection operations under this "No build" scenario found the existing intersection configurations yielded unacceptable conditions at the study intersection with the future 2040 traffic volumes.

The intersection is anticipated to operate at LOS F with a V/C ratio greater than one during the weekday AM peak hour and LOS Ewith a V/C ratio greater than one during the weekday PM peak hour. Queue lengths at the 95th percentile is shown in Table 2 and Table 3 for the weekday AM and PM peak hours, respectively.

Appendix F contains the 2040 No-Build weekday AM and PM peak hour analysis worksheets produced by Synchro 7.

EVALUATION OF INTERSECTION IMPROVEMENT ALTERNATIVES

A signalized intersection alternative and a multi-lane roundabout alternative were considered at the study intersection. A summary of the findings and implications at of the intersection is presented below.

Alternative #1 -Signalized Intersection Alternative

For this alternative, the study intersection was assumed to be improved by providing dual eastbound left turn lanes, dual northbound left turn lanes, and single southbound and eastbound right-turn lanes. The signal timing for the intersection was optimized.

With the widening of the intersection and projected 2040 vehicle volumes, the HCM 2000 analysis indicates that the intersection would operate at a LOS C in both the weekday AM and PM with V/C ratios of 0.76 and 0.64, respectively. Queue lengths at the 95th percentile are shown in Table 2 and Table 3 for the weekday AM and PM peak hours, respectively. Appendix G shows the optimized signal analysis and queue analysis worksheets for the weekday AM and PM peak hour traffic conditions produced by Synchro 7.

Alternative #2 -Roundabout Alternative

This alternative evaluates a multi-lane roundabout with turn lanes based on the travel patterns.

With the intersection re-constructed as a roundabout and projected 2040 vehicle volumes, the HCM 6th Edition analysis provided by HCS7 indicates that the roundabout would operate at a LOS C and LOS B during the weekday AM and PM peak hour, respectively. Queue lengths at the 95th percentile are shown in Table 2 and Table 3 for the weekday AM and PM peak hours, respectively. Appendix H shows the 2040 analysis of the roundabout configuration.

Queue Analysis

Queues are rounded to the nearest 25 foot interval for all movements. "+" indicated that the 95th percentile volume may exceed the capacity of the intersection, resulting in a longer queue.

Table 2: NE Lake Road/SR500 Intersection, Weekday AM Peak Hour Queue Lengths

			95th Percentile Queue Length (feet)											
Direction	Lane Group	Existing "No Build"		Alternative #1 Signalized Intersection	Alternative #2 Multilane Roundabout									
Eastbound	Left	400	425	275+	100									
Eastbound	Right	50	75	175	75									
Northbound	Left	300	775+	350+	75									
Northbourid	Thru	200	400	475	125									
Southbound	thru	800+	1,675+	875	265									
Southbound	Right	n/a	n/a	200	75									

Table 3: NE Lake Road/SR500 intersection, Weekday PM Peak Hour Queue Lengths

		95th Percentile Queue Length (feet)											
Direction	Lane Group	Existing	"No Build"	Alternative #1 Signalized Intersection	Alternative #2 Multilane Roundabout								
Eastbound	Left	225	275	175	50								
Eastboullu	Right	100	175	300	125								
Northbound	Left	350+	425+	225	50								
Northbound	Thru	125	300	450	100								
Southbound	thru	675+	1,225+	575	100								
Southbound	Right	n/a	n/a	50	75								

Performance of Intersection Improvement Options

Table 4 and Table 5 illustrate the weekday AM and PM peak hour intersection operational performance measures for the No-Build and two intersection alternatives for the study intersection.

Table 4: NE Lake Road/SR500 Intersection, 2040 Weekday AM Peak Hour Operations Comparison

Direction	Lama Craum	L	evel-of-Servi	ce	Volum	ne-to-Capacity I	Ratio	Total Delay (seconds)				
Direction	Lane Group	No-Build	Alt #1	Alt #2	No-Build	Alt #1	Alt #2	No-Build	Alt #1	Alt #2		
Faath a d	Left	E	E	С	0.83	0.72	0.56	58.5	59.6	15.4		
Eastbound	Right	D	С	В	0.18	0.29	0.45	38.5	21.7	12.3		
Northbound	Left	F	E	А	>1.0	0.77	0.48	181.1	58.6	9.4		
Northbound	Thru	В	В	В	0.51	0.52	0.65	10.6	12.0	13.5		
Courthhound	Thru	F	D	D	>1.0	0.84	0.86	266.6	41.0	29.3		
Southbound Right		n/a	В	В	n/a	0.26	0.50	n/a	10.9	11.2		
Inters	ection	F	С	С	>1.0	0.76	n/a	146.2	33.6	16.5		

Table 5: NE Lake Road/SR500 Intersection, 2040 Weekday PM Peak Hour Operations Comparison

Disastian	Lawa Grassia	L	evel-of-Servi	ice	Volum	ne-to-Capacity l	Ratio	Total Delay (seconds)				
Direction	Lane Group	No-Build	Alt #1	Alt #2	No-Build	Alt #1	Alt #2	No-Build	Alt #1	Alt #2		
Fastbound	Left	E	D	А	0.75	0.43	0.36	55.4	40.0	9.1		
Eastbound	Right	D	В	С	0.45	0.51	0.65	44.4	19.0	16.0		
No albiron al	Left	D	D	Α	0.81	0.55	0.31	54.2	40.4	6.4		
Northbound	Thru	А	В	В	0.45	0.51	0.58	6.4	10.5	10.8		
C. Hiliand	Thru	F	С	В	>1.0	0.68	0.55	126.2	27.5	11.1		
Southbound Right		n/a	А	А	n/a	0.27	0.44	n/a	8.8	8.9		
Inters	ection	E	С	В	>1.0	0.64	n/a	119.1	21.7	10.8		

NEXT STEPS

Please review the traffic operations analysis information presented in this memorandum that will become part of the intersection control evaluation and let us know what questions or comments you may have. We would be pleased to further discuss the study findings and the two improvement alternatives as appropriate.

If you have questions as you review this material, please contact us at 503-535-7431.

APPENDIX

Appendix A: Quality Counts Traffic Counts

Appendix B: Clark County Existing Signal Timing

Appendix C: Existing 2019 Weekday AM and PM Synchro Analysis worksheets

Appendix D: 2015 and 2040 Southwest Regional Transportation Council Base Models

Appendix E: NCHRP 255 Analysis Worksheets

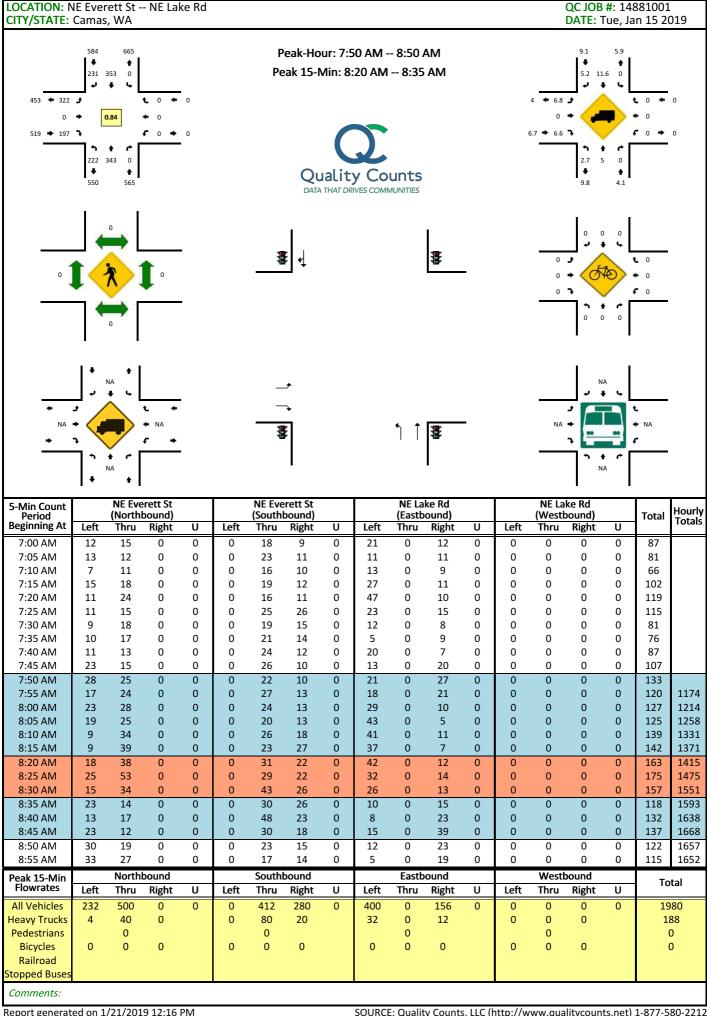
Appendix F: 2040 "No Build" Weekday AM and PM Synchro Worksheets and Queue Worksheets

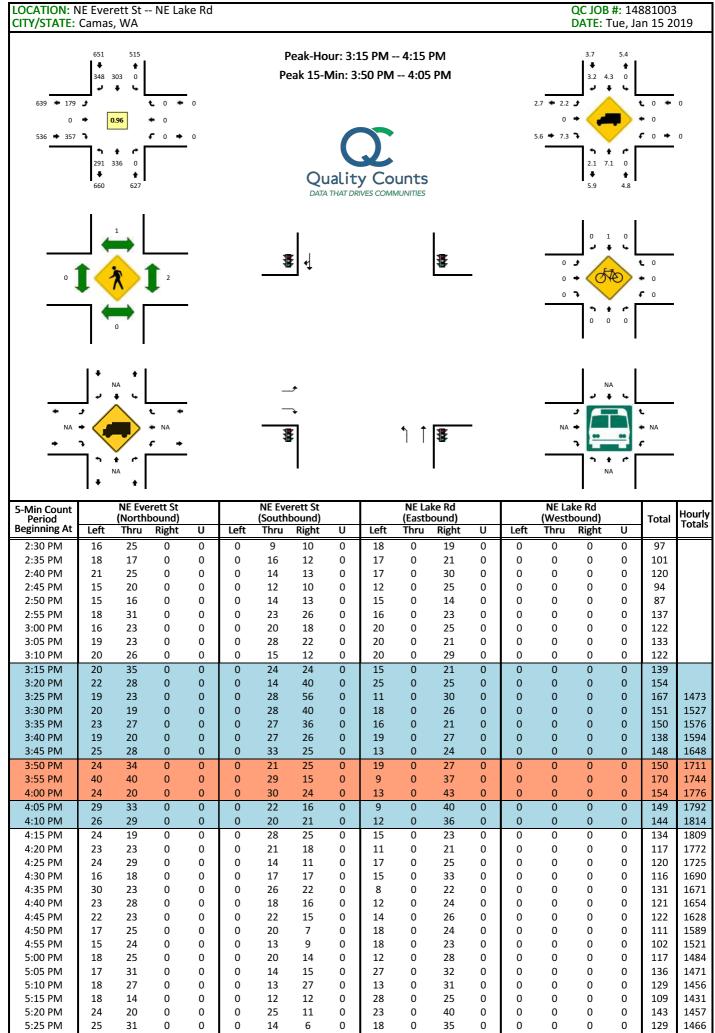
Appendix G: 2040 Improved Signalized Intersection Weekday AM and PM Synchro Worksheets and

Queue Worksheets

Appendix H: 2040 Multilane Roundabout Weekday AM and PM HCS7 Worksheets







5-Min Count Period			erett St bound)				erett St bound)			NE La (Eastb	ke Rd ound)				ke Rd oound)		Total	Hourly Totals
Beginning At	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U		iotais
5:30 PM	16	27	0	0	0	18	15	0	11	0	22	0	0	0	0	0	109	1459
5:35 PM	17	19	0	0	0	14	9	0	21	0	26	0	0	0	0	0	106	1434
5:40 PM	14	26	0	0	0	13	7	0	15	0	21	0	0	0	0	0	96	1409
5:45 PM	20	22	0	0	0	8	16	0	21	0	28	0	0	0	0	0	115	1402
5:50 PM	12	25	0	0	0	25	14	0	16	0	22	0	0	0	0	0	114	1405
5:55 PM	12	15	0	0	0	15	12	0	20	0	24	0	0	0	0	0	98	1401
6:00 PM	23	19	0	0	0	6	6	0	14	0	19	0	0	0	0	0	87	1371
6:05 PM	12	24	0	0	0	19	12	0	14	0	19	0	0	0	0	0	100	1335
6:10 PM	18	21	0	0	0	11	15	0	13	0	22	0	0	0	0	0	100	1306
6:15 PM	12	16	0	0	0	11	9	0	11	0	17	0	0	0	0	0	76	1273
6:20 PM	9	24	0	0	0	15	17	0	18	0	9	0	0	0	0	0	92	1222
6:25 PM	16	22	0	0	0	14	9	0	17	0	14	0	0	0	0	0	92	1185
Peak 15-Min		North	bound			South	bound			Eastb	ound			Westl	oound		То	tal
Flowrates	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	10	ıldı
All Vehicles	352	376	0	0	0	320	256	0	164	0	428	0	0	0	0	0	18	396
Heavy Trucks	16	56	0		0	16	0		0	0	48		0	0	0		1	36
Pedestrians		0				0				0				0			(0
Bicycles	0	0	0		0	0	0		0	0	0		0	0	0		(0
Railroad																		
Stopped Buses																		
Comments:																		

Report generated on 1/21/2019 12:16 PM

SOURCE: Quality Counts, LLC (http://www.qualitycounts.net) 1-877-580-2212



Controller Database Timing Sheet



Station: 4051 - WSDOT - SR500 & Lake rd.(Standard File)

Type: NTCIP 76.x 2070 Ethernet

Firmware:

Created By: HagenR

Modified By:

Reviewed By:

	*	NB		EBR	NBL	SIZ	EBL	PED	17							
Phase Times and Op	tions(1.1			X 1944	212.4				The state	i santi	JUL I					Bull
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Min Green		5		4	4	5	4	4				1				
Gap Ext		4.5		3.5	3.5	4.5	3.5	3.5								
Max1		50		40	2528	-5055	40	20								
Max2		25		18	12	25	18	20								
Yellow Clr	3	4	3	3	3	4	3	3	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
Red Clr		1		1.	2	1	1	1	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
Walk						7		7	,							
Ped Clearance						25		17								
Red Revert		2		2	2	2	2	2								
Added Initial		2				2										
Max Initial		20		4	4	20	4									
Time Before Reduce		20				25		at								
Cars Before Reduce	(2)															
Time To Reduce		10				10										
Reduce By																
Min Gap		3.5		3.5	3.5	3.5	3.5									
Dynamic Max Limit										+1						
Dynamic Max Step																
Startup	RED	RED	RED	RED	RED	RED	RED	RED	RED	RED	RED	RED	RED	RED	RED	RED
Enable	*	X		X	X	X	X	X						(W)		
Auto Flash Entry	180		397	X		(4)	X									####
Auto Flash Exit	140	X				X										
Non-Actuated 1				, u										3.		
Non-Actuated 2				*		141									181	
Lock Calls	397					14		¥	1.							
Min Recall		X			147	X	1440		1 (*)							

Phase Times and Op				A COLUMN	100	3.46)	10/4	Marie and the	1880	The same of the sa	200.040	1 100000		200.00		1 12000
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Max Recall						5.0				181				7/62		76
Ped Recall																
Soft Recall									F 1							
Dual Entry				X	180		X									73.80
Sim Gap Enable					[#3]					5 x /	*					
Guarantd Passage								-	F	52	*			141		36.
Rest In Walk																
Cond Service						5.2				10.9						1
Added Init Calc													*			138.3
Ring -	1	1	1	1	2	2	2	2								
Concur 1	5	5	7	7	1	1	3	3								
Concur 2	6	6	8	8	2	2	4	4								
Concur 3										Sk-						
Concur 4																
Concur 5																
Concur 6																
Concur 7																
Concur 8																1

Unit Parms(1.2.1)													
	STANDING STANDS		Value										
StartUp Flash	820		7										
Auto Ped Clear			X										
Red Revert		*	2										
Local Flash Start			X										
Allow < 3 sec Yel													
Allow Skip Yel													
MCE Timeout													
Enable Run			X		ш								
Start Red Time	8												
Phase Mode	Ti.		STD8										
Startup Calls													
Diamond Mode	4PH												
Stop Time Over Preempt		(4)	٠										
Free Ring Sequence			5										
Clearance Decide		-											
Min Ped Clear Time													
RingAlgo													
Ring Sequences(1.2.4)			RE THE										
	1	2	the same	3	4								
Ring P1	1	5			>								
Ring P2	2	6											
Ring P3	3	8											
Ring P4	4	7		*									
Ring P5													
Ring P6													
Ring P7													
Ring P8				1									

Appendix C – Existing Weekday AM and PM Synchro Analysis Worksheets

	٠	•	•	†	+	✓	
Movement	EBL	EBR	NBL	NBT	SBT	SBR	
ane Configurations	ሻ	7	ሻ	^	f.		
raffic Volume (vph)	322	197	222	343	353	231	
iture Volume (vph)	322	197	222	343	353	231	
al Flow (vphpl)	1900	1900	1900	1900	1900	1900	
tal Lost time (s)	4.0	4.0	5.0	5.0	5.0		
ne Util. Factor	1.00	1.00	1.00	1.00	1.00		
	1.00	0.85	1.00	1.00	0.95		
Protected	0.95	1.00	0.95	1.00	1.00		
td. Flow (prot)	1687	1509	1752	1810	1647		
Permitted	0.95	1.00	0.95	1.00	1.00		
td. Flow (perm)	1687	1509	1752	1810	1647		
eak-hour factor, PHF	0.84	0.84	0.84	0.84	0.84	0.84	
. Flow (vph)	383	235	264	408	420	275	
OR Reduction (vph)	0	170	0	0	13	0	
ne Group Flow (vph)	383	65	264	408	682	0	
eavy Vehicles (%)	7%	7%	3%	5%	12%	5%	
n Type	Prot	Prot	Prot	NA	NA		
otected Phases	7	4	5	2	6		
rmitted Phases							
tuated Green, G (s)	35.9	35.9	25.2	85.5	55.3		
ective Green, g (s)	35.9	35.9	25.2	85.5	55.3		
uated g/C Ratio	0.28	0.28	0.19	0.66	0.42		
earance Time (s)	4.0	4.0	5.0	5.0	5.0		
hicle Extension (s)	3.5	3.0	3.5	4.5	4.5		
ne Grp Cap (vph)	464	415	338	1186	698		
Ratio Prot	c0.23	0.04	c0.15	0.23	c0.41		
Ratio Perm							
Ratio	0.83	0.16	0.78	0.34	0.98		
iform Delay, d1	44.3	35.8	50.0	10.0	36.9		
ogression Factor	1.00	1.00	1.00	1.00	1.00		
remental Delay, d2	11.7	0.2	11.4	0.3	28.4		
lay (s)	56.0	36.0	61.4	10.3	65.3		
vel of Service	Е	D	Е	В	Е		
proach Delay (s)	48.4			30.4	65.3		
proach LOS	D			С	Е		
ersection Summary							
M 2000 Control Delay			48.2	Н	CM 2000	Level of Service	D
M 2000 Volume to Capa	city ratio		0.92				
uated Cycle Length (s)			130.4	S	um of lost	time (s)	18.0
ersection Capacity Utiliza	ition		74.5%	IC	CU Level c	of Service	D
alysis Period (min)			15				
Critical Lane Group							

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	•	•	1	†	ļ
Lane Group	EBL	EBR	NBL	NBT	SBT
Lane Group Flow (vph)	383	235	264	408	695
v/c Ratio	0.83	0.40	0.78	0.34	0.98
Control Delay	60.5	6.5	67.1	11.5	66.1
Queue Delay	0.0	0.0	0.0	0.0	0.0
Total Delay	60.5	6.5	67.1	11.5	66.1
Queue Length 50th (ft)	313	0	220	154	~639
Queue Length 95th (ft)	400	47	299	198	#790
Internal Link Dist (ft)	381			511	417
Turn Bay Length (ft)	70		175		
Base Capacity (vph)	519	862	377	1226	710
Starvation Cap Reductn	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0
Reduced v/c Ratio	0.74	0.27	0.70	0.33	0.98

Intersection Summary

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Volume exceeds capacity, queue is theoretically infinite.
 Queue shown is maximum after two cycles.

^{# 95}th percentile volume exceeds capacity, queue may be longer.

Queue shown is maximum after two cycles.

	۶	•	•	†		4	
Movement	EBL	EBR	NBL	NBT	SBT	SBR	
Lane Configurations	ሻ	7	ች	†	1>		
Traffic Volume (vph)	179	357	291	336	303	348	
uture Volume (vph)	179	357	291	336	303	348	
deal Flow (vphpl)	1900	1900	1900	1900	1900	1900	
otal Lost time (s)	4.0	4.0	5.0	5.0	5.0		
ane Util. Factor	1.00	1.00	1.00	1.00	1.00		
rpb, ped/bikes	1.00	1.00	1.00	1.00	1.00		
Flpb, ped/bikes	1.00	1.00	1.00	1.00	1.00		
-rt	1.00	0.85	1.00	1.00	0.93		
Flt Protected	0.95	1.00	0.95	1.00	1.00		
Satd. Flow (prot)	1770	1509	1770	1776	1704		
Flt Permitted	0.95	1.00	0.95	1.00	1.00		
Satd. Flow (perm)	1770	1509	1770	1776	1704		
Peak-hour factor, PHF	0.96	0.96	0.96	0.96	0.96	0.96	
Adj. Flow (vph)	186	372	303	350	316	362	
RTOR Reduction (vph)	0	315	0	0	20	0	
Lane Group Flow (vph)	186	57	303	350	659	0	
Confl. Peds. (#/hr)	2	2	1				
Heavy Vehicles (%)	2%	7%	2%	7%	4%	3%	
Turn Type	Prot	Prot	Prot	NA	NA		
Protected Phases	7	4	5	2	6		
Permitted Phases							
Actuated Green, G (s)	17.6	17.6	27.6	87.7	55.1		
Effective Green, g (s)	17.6	17.6	27.6	87.7	55.1		
Actuated g/C Ratio	0.15	0.15	0.24	0.77	0.48		
Clearance Time (s)	4.0	4.0	5.0	5.0	5.0		
Vehicle Extension (s)	3.5	3.0	3.5	4.5	4.5		
Lane Grp Cap (vph)	272	232	427	1362	821		
v/s Ratio Prot	c0.11	0.04	c0.17	0.20	c0.39		
v/s Ratio Perm							
v/c Ratio	0.68	0.25	0.71	0.26	0.80		
Uniform Delay, d1	45.7	42.5	39.7	3.9	25.0		
Progression Factor	1.00	1.00	1.00	1.00	1.00		
Incremental Delay, d2	7.2	0.6	5.5	0.2	6.3		
Delay (s)	52.9	43.1	45.2	4.0	31.3		
Level of Service	D	D	D	Α	С		
Approach Delay (s)	46.4			23.1	31.3		
Approach LOS	D			С	С		
ntersection Summary							
HCM 2000 Control Delay			32.9	H	CM 2000	Level of Service	С
HCM 2000 Volume to Capa	acity ratio		0.79				
Actuated Cycle Length (s)	•		114.3	Sı	um of lost	time (s)	18.0
Intersection Capacity Utiliza	ation		75.0%		U Level o		D
Analysis Period (min)			15				
Critical Lana Croup							

c Critical Lane Group

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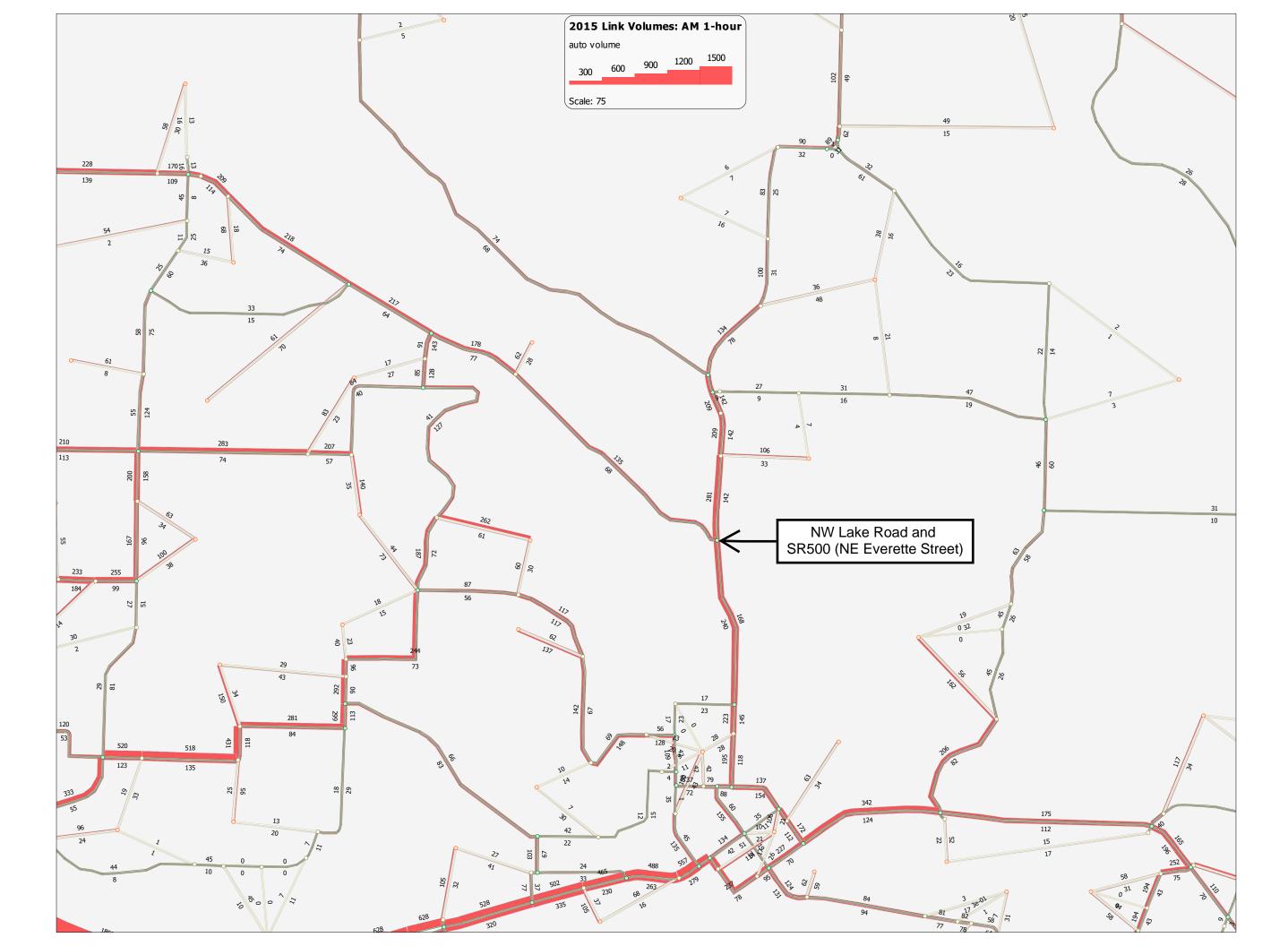
	•	\rightarrow	1	†	ţ
Lane Group	EBL	EBR	NBL	NBT	SBT
Lane Group Flow (vph)	186	372	303	350	679
v/c Ratio	0.68	0.68	0.71	0.26	0.81
Control Delay	58.8	11.2	50.8	4.8	33.5
Queue Delay	0.0	0.0	0.0	0.0	0.0
Total Delay	58.8	11.2	50.8	4.8	33.5
Queue Length 50th (ft)	131	0	205	62	394
Queue Length 95th (ft)	207	89	#328	118	#670
Internal Link Dist (ft)	381			511	417
Turn Bay Length (ft)	70		175		
Base Capacity (vph)	620	1009	434	1369	841
Starvation Cap Reductn	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0
Reduced v/c Ratio	0.30	0.37	0.70	0.26	0.81
Intersection Summary					

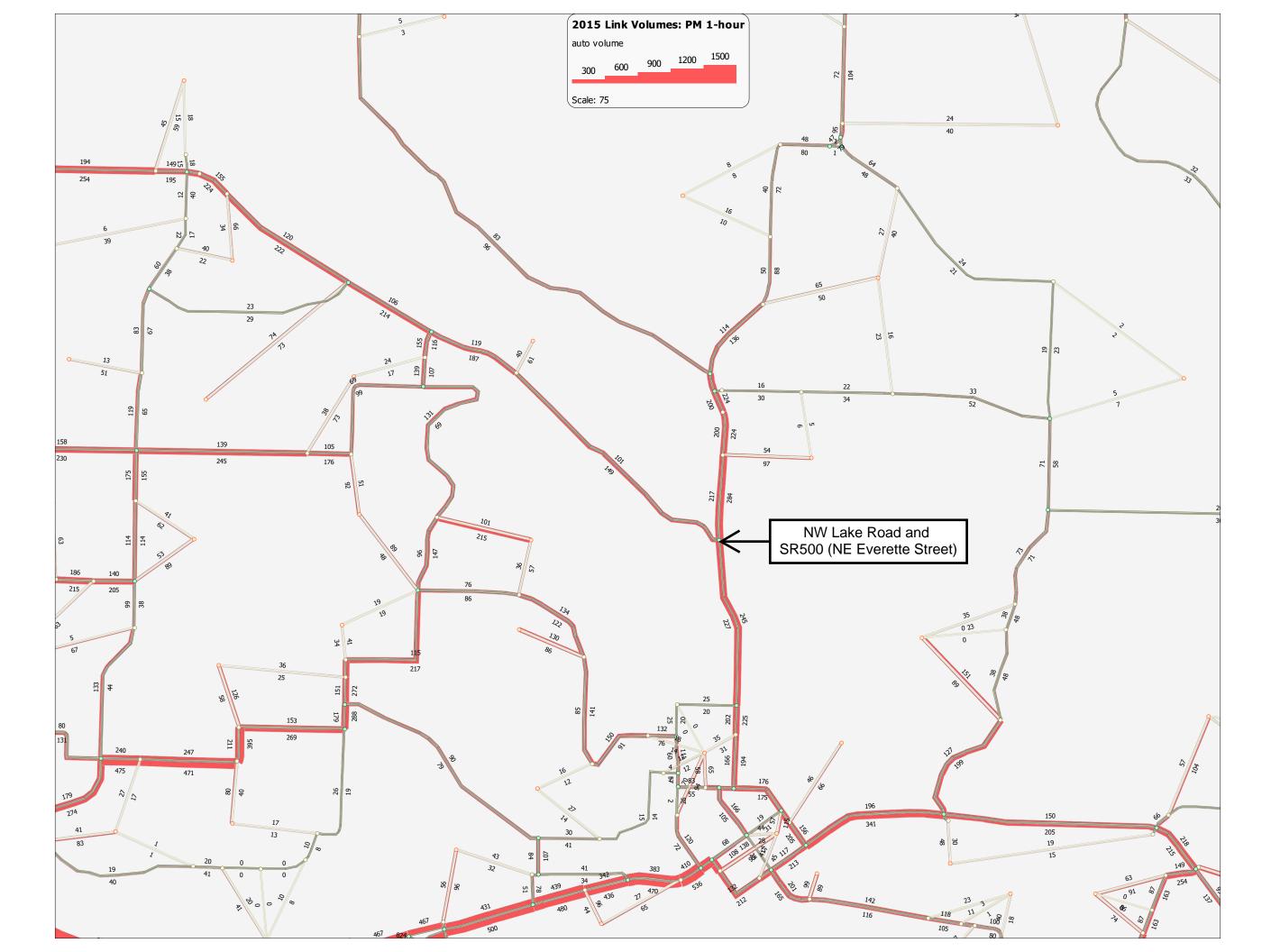
^{# 95}th percentile volume exceeds capacity, queue may be longer.

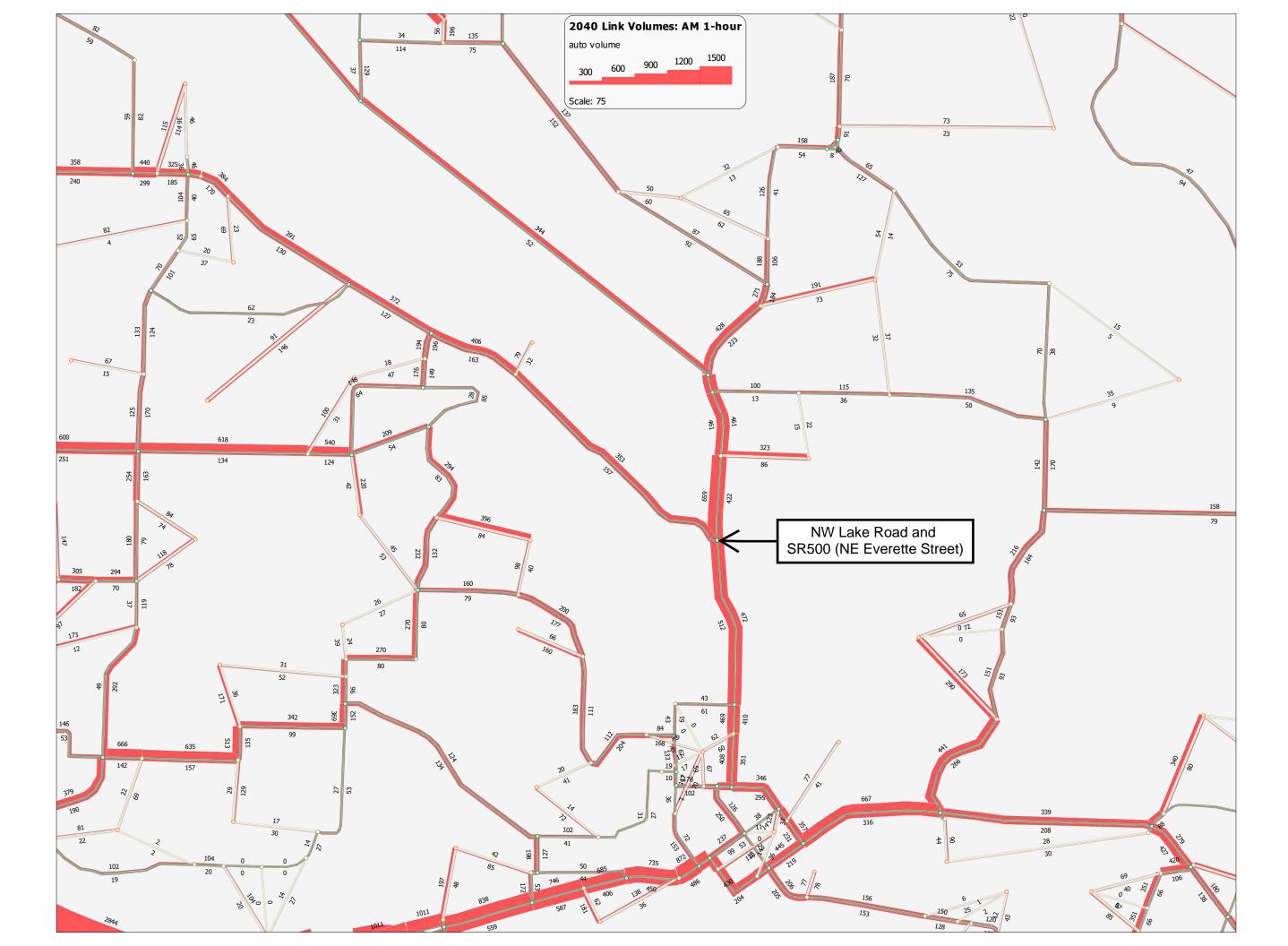
Queue shown is maximum after two cycles.

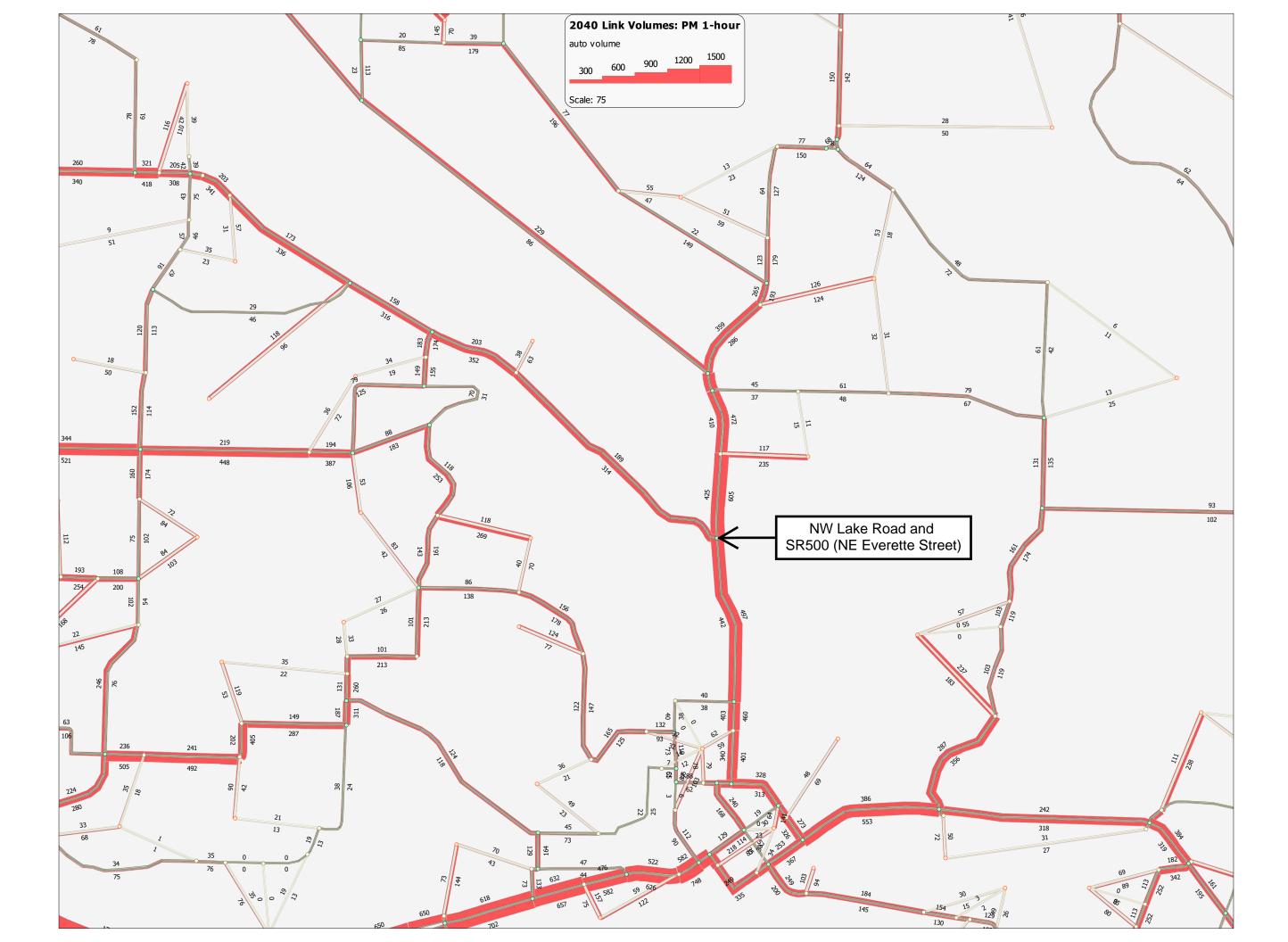
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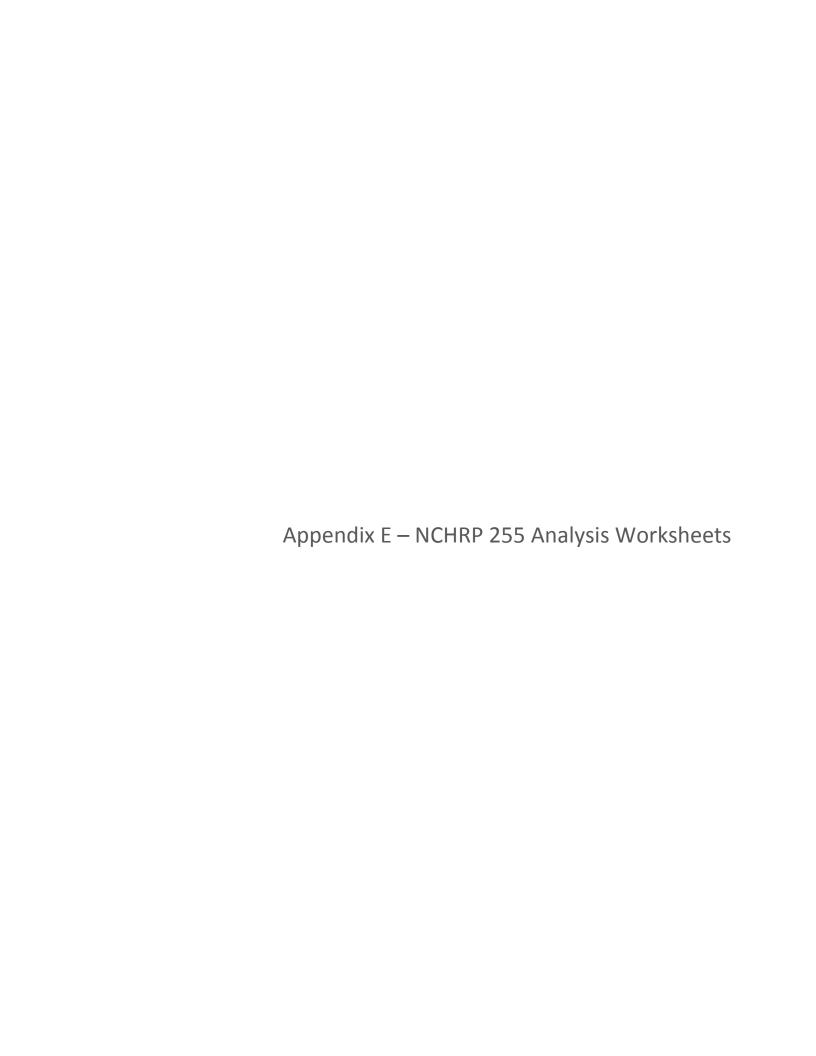
Appendix D – 2015 and 2040 Southwest Regional Transportation Council Base Models











Project #: Project Name: City, State: 23377

Lake Rd and Everett St Roundabout

Camas, Washington
Year 2019 Existing Traffic Conditions, Weekday AM Peak Hour Scenario:

Date:

1/30/2019
H:\23\23377 - Lake Rd and Everett St Roundabout\Synchro
AR Filename/Path

Prepared By:

Existing Count Year: 2019
Base Model Year 2015
Future Model Year 2040

1																
						Existing Link	Base Model	Future Model		Adjusted Base Model	Base Model: Existing	Ratio Method (Existing *	Difference Method (Ex. +	Average of Ratio & Difference	Selected 255	Growth Factor (From Ex.
Intersection Name	Leg	Movement	Left	Thru	Right	Volume	Link Volume	Link volume	Growth Factor	Volumes	Volume	Future/Base)	Future - Base)	Method	Volume	Count Year)
	Courth	In	222	343	1	566	168	472	0.0724	217	0.383	1233	821	1027	1027	181%
<u> </u>	South	Out	1	353	197	551	240	512	0.0453	284	0.515	995	779	887	887	161%
를 SE	West	In	322	1	197	520	68	157	0.0524	82	0.158	993	595	794	595	114%
ret ke	wesi	Out	222	1	231	454	135	353	0.0646	170	0.374	943	637	790	790	174%
NE Everett : NW Lake F	North	In	1	353	231	585	281	659	0.0538	341	0.584	1129	903	1016	1016	174%
₩ ≥	NOITH	Out	322	343	1	666	142	422	0.0789	187	0.280	1505	901	1203	901	135%
Ξ²	East	In	1	1	1	3	3	3	0.0000	3	1	3	3	3	3	100%
	⊏ası	Out	1	1	1	3	3	3	0.0000	3	1	3	3	3	3	100%
						3348	1040	2581	0	1287	0	6717	4642	5679	5679	170%

Removed Link	Check
rest	Summary
Okay	Okay
	Test Okay Okay Okay Okay Okay Okay Okay Okay

1		Final Volumes													
						Base Model	Future Model	Future	Adjusted Link						
Int. Name	Approach	Movement	Left	Thru	Right	Link Volume	Link Volume	Volume	Volume						
	South	ln	426	577	0	168	472	1027	1004						
<u> </u>	South	Out	0	629	257	240	512	887	887						
장윤	West	ln	324	0	257	68	157	595	581						
verett Lake I	West	Out	426	0	363	135	353	790	790						
La Ke	North	ln	0	629	363	281	659	1016	993						
N N	NOILII	Out	324	577	1	142	422	901	901						
₽ Z	East	In	0	0	0	0	0	0	0						
	East	Out	0	0	0	0	0	0	0						
						1040	2581	5222	5163						

Volume
Override
1027
887
595
790
1016
901
0
0
5222

Project #: Project Name: City, State: Scenario: Date:

23377
Lake Rd and Everett St Roundabout
Camas, Washington
Year 2019 Existing Traffic Conditions, Weekday PM Peak Hour
1/11/2019

Filename/Path H:\23\23377 - Lake Rd and Everett St Roundabout\Synchro

Prepared By: AR

Existing Count Year: 2019
Base Model Year 2015

Future Model Year	2040
1	

Intersection Name	Leg	Movement	Left	Thru	Right	Existing Link Volume	Base Model Link Volume	Future Model Link volume	Base to Future A Model Growth Factor	Adjusted Base Model Volumes	Base Model: Existing Volume	Ratio Method (Existing * Future/Base)	Difference Method (Ex. + Future - Base)	Average of Ratio & Difference Method	Selected 255 Volume	Growth Factor (From Ex. Count Year)
	South	ln	291	336	1	628	245	497	0.0411	285	0.454	1094	840	967	967	154%
<u> </u>	South	Out	1	303	357	661	227	442	0.0379	261	0.395	1118	842	980	980	148%
St. St.	West	ln	179	1	357	537	149	314	0.0443	180	0.335	937	671	804	804	150%
ke ret	west	Out	291	1	348	640	101	189	0.0349	115	0.180	1051	714	883	714	112%
NE Everett NW Lake F	North	In	1	303	348	652	217	425	0.0383	250	0.384	1107	827	967	967	148%
<u></u>	INOILII	Out	179	336	1	516	284	605	0.0452	335	0.650	931	786	858	858	166%
Z ²	Foot	In	1	1	1	3	3	3	0.0000	3	1	3	3	3	3	100%
	East	Out	1	1	1	3	3	3	0.0000	3	1	3	3	3	3	100%
						3640	1229	2478	0	1429	0	6313	4689	5501	5501	151%

tor			
		Removed Link	Check
r)	New Link Test	Test	Summary
	Okay	Okay	Okay

1		Final Volumes														
Int. Name	Approach	Movement	Left	Thru	Right	Base Model Link Volume	Future Model Link Volume	Initial 255 Future Volume	Adjusted Lin							
	0	In	313	587	0	245	497	967	901							
_	South	Out	0	501	478	227	442	980	980							
PS SS	\A/+	In	270	0	478	149	314	804	749							
verett Lake F	West	Out	313	0	400	101	189	714	714							
La	N 1 11	In	0	501	400	217	425	967	901							
۾ ٰ ≧	North	Out	270	587	0	284	605	858	858							
필요		In	0	0	0	0	0	0	0							
	East	Out	0	0	0	0	0	0	0							
						1229	2478	5295	5110							

Volume
Override
967
980
804
714
967
858
0
0
5295

Appendix F – 2040 "No Build" Weekday AM and PM Synchro Worksheets and Queue Worksheets

	•	•	•	†	+	4	
Movement	EBL	EBR	NBL	NBT	SBT	SBR	
Lane Configurations	ሻ	7	ሻ	†	î,		
raffic Volume (vph)	324	257	426	577	629	363	
uture Volume (vph)	324	257	426	577	629	363	
deal Flow (vphpl)	1900	1900	1900	1900	1900	1900	
Total Lost time (s)	4.0	4.0	5.0	5.0	5.0		
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00		
Frpb, ped/bikes	1.00	1.00	1.00	1.00	0.98		
Flpb, ped/bikes	1.00	1.00	1.00	1.00	1.00		
-rt	1.00	0.85	1.00	1.00	0.95		
Flt Protected	0.95	1.00	0.95	1.00	1.00		
Satd. Flow (prot)	1752	1568	1752	1845	1715		
FIt Permitted	0.95	1.00	0.95	1.00	1.00		
Satd. Flow (perm)	1752	1568	1752	1845	1715		
Peak-hour factor, PHF	0.90	0.90	0.90	0.90	0.90	0.90	
Adj. Flow (vph)	360	286	473	641	699	403	
RTOR Reduction (vph)	0	215	0	0	11	0	
Lane Group Flow (vph)	360	71	473	641	1091	0	
Confl. Peds. (#/hr)	20	20	20			20	
Heavy Vehicles (%)	3%	3%	3%	3%	3%	3%	
Turn Type	Prot	Prot	Prot	NA	NA		
Protected Phases	7	4	5	2	6		
Permitted Phases							
Actuated Green, G (s)	32.2	32.2	28.1	88.2	55.1		
Effective Green, g (s)	32.2	32.2	28.1	88.2	55.1		
Actuated g/C Ratio	0.25	0.25	0.22	0.68	0.43		
Clearance Time (s)	4.0	4.0	5.0	5.0	5.0		
Vehicle Extension (s)	3.5	3.0	3.5	4.5	4.5		
Lane Grp Cap (vph)	435	390	380	1257	730		
v/s Ratio Prot	c0.21	0.05	c0.27	0.35	c0.64		
//s Ratio Perm							
v/c Ratio	0.83	0.18	1.24	0.51	1.49		
Uniform Delay, d1	46.0	38.2	50.7	10.1	37.1		
Progression Factor	1.00	1.00	1.00	1.00	1.00		
Incremental Delay, d2	12.5	0.2	130.5	0.6	229.5		
Delay (s)	58.5	38.5	181.1	10.6	266.6		
Level of Service	Е	D	F	В	F		
Approach Delay (s)	49.6			83.0	266.6		
Approach LOS	D			F	F		
ntersection Summary							
HCM 2000 Control Delay			146.2	Н	CM 2000	Level of Service	F
HCM 2000 Volume to Capa	acity ratio		1.29				
Actuated Cycle Length (s)			129.4	S	um of lost	time (s)	18.0
Intersection Capacity Utiliza	ation		109.2%	IC	CU Level c	of Service	Н
Analysis Period (min)			15				
Critical Lana Croup							

c Critical Lane Group

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	•	•	•	†	ļ
Lane Group	EBL	EBR	NBL	NBT	SBT
Lane Group Flow (vph)	360	286	473	641	1102
v/c Ratio	0.83	0.47	1.24	0.51	1.49
Control Delay	62.3	6.8	173.1	12.7	257.1
Queue Delay	0.0	0.0	0.0	0.0	0.0
Total Delay	62.3	6.8	173.1	12.7	257.1
Queue Length 50th (ft)	286	0	~496	244	~1283
Queue Length 95th (ft)	404	68	#759	394	#1657
Internal Link Dist (ft)	381			511	417
Turn Bay Length (ft)	70		175		
Base Capacity (vph)	542	921	380	1257	740
Starvation Cap Reductn	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0
Reduced v/c Ratio	0.66	0.31	1.24	0.51	1.49

Intersection Summary

Queue shown is maximum after two cycles.

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Volume exceeds capacity, queue is theoretically infinite.
 Queue shown is maximum after two cycles.

^{# 95}th percentile volume exceeds capacity, queue may be longer.

	•	•	•	†		4	
Movement	EBL	EBR	NBL	NBT	SBT	SBR	
Lane Configurations	ች	7	ች	†	f.		
Traffic Volume (vph)	231	478	318	587	501	400	
Future Volume (vph)	231	478	318	587	501	400	
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	
Total Lost time (s)	4.0	4.0	5.0	5.0	5.0		
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00		
Frpb, ped/bikes	1.00	1.00	1.00	1.00	0.97		
Flpb, ped/bikes	1.00	1.00	1.00	1.00	1.00		
Frt	1.00	0.85	1.00	1.00	0.94		
Flt Protected	0.95	1.00	0.95	1.00	1.00		
Satd. Flow (prot)	1752	1568	1752	1845	1691		
Flt Permitted	0.95	1.00	0.95	1.00	1.00		
Satd. Flow (perm)	1752	1568	1752	1845	1691		
Peak-hour factor, PHF	0.96	0.96	0.96	0.96	0.96	0.96	
Adj. Flow (vph)	241	498	331	611	522	417	
RTOR Reduction (vph)	0	367	0	0	14	0	
Lane Group Flow (vph)	241	131	331	611	925	0	
Confl. Peds. (#/hr)	20	20	20			20	
Heavy Vehicles (%)	3%	3%	3%	3%	3%	3%	
Turn Type	Prot	Prot	Prot	NA	NA		
Protected Phases	7	4	5	2	6		
Permitted Phases							
Actuated Green, G (s)	21.9	21.9	28.0	88.2	55.2		
Effective Green, g (s)	21.9	21.9	28.0	88.2	55.2		
Actuated g/C Ratio	0.18	0.18	0.24	0.74	0.46		
Clearance Time (s)	4.0	4.0	5.0	5.0	5.0		
Vehicle Extension (s)	3.5	3.0	3.5	4.5	4.5		
Lane Grp Cap (vph)	322	288	411	1366	783		
v/s Ratio Prot	c0.14	0.08	c0.19	0.33	c0.55		
v/s Ratio Perm							
v/c Ratio	0.75	0.45	0.81	0.45	1.18		
Uniform Delay, d1	46.0	43.3	43.0	6.0	31.9		
Progression Factor	1.00	1.00	1.00	1.00	1.00		
Incremental Delay, d2	9.5	1.1	11.2	0.4	94.3		
Delay (s)	55.4	44.4	54.2	6.4	126.2		
Level of Service	Е	D	D	Α	F		
Approach Delay (s)	48.0			23.2	126.2		
Approach LOS	D			С	F		
ntersection Summary							
HCM 2000 Control Delay			67.1	Н	CM 2000	Level of Service	Е
HCM 2000 Volume to Capa	acity ratio		1.03				
Actuated Cycle Length (s)	•		119.1	Sı	um of lost	time (s)	18.0
Intersection Capacity Utilization	ation		93.7%		U Level c		F
Analysis Period (min)			15				
Critical Lana Croup							

c Critical Lane Group

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	•	•	4	†	↓
Lane Group	EBL	EBR	NBL	NBT	SBT
Lane Group Flow (vph)	241	498	331	611	939
v/c Ratio	0.75	0.76	0.80	0.45	1.19
Control Delay	60.8	14.5	59.6	7.8	126.1
Queue Delay	0.0	0.0	0.0	0.0	0.0
Total Delay	60.8	14.5	59.6	7.8	126.1
Queue Length 50th (ft)	177	31	240	158	~858
Queue Length 95th (ft)	266	153	#422	282	#1211
Internal Link Dist (ft)	381			511	417
Turn Bay Length (ft)	70		175		
Base Capacity (vph)	589	1052	412	1366	792
Starvation Cap Reductn	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0
Reduced v/c Ratio	0.41	0.47	0.80	0.45	1.19

Intersection Summary

Queue shown is maximum after two cycles.

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Volume exceeds capacity, queue is theoretically infinite.
 Queue shown is maximum after two cycles.

^{# 95}th percentile volume exceeds capacity, queue may be longer.

Appendix G	– 2040 Improved Signalized Intersection Weekday AM and PM Synchro Worksheets and Queue Worksheets
	and FIVI Synchro Worksheets and Queue Worksheets

	۶	\rightarrow	4	†	ļ	✓		
Movement	EBL	EBR	NBL	NBT	SBT	SBR		
Lane Configurations	ሻሻ	7	ሻሻ	↑	†	1		
Traffic Volume (vph)	324	257	426	577	629	363		
Future Volume (vph)	324	257	426	577	629	363		
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900		
Total Lost time (s)	4.0	4.5	5.0	5.0	5.0	5.0		
Lane Util. Factor	0.97	1.00	0.97	1.00	1.00	1.00		
Frpb, ped/bikes	1.00	1.00	1.00	1.00	1.00	1.00		
Flpb, ped/bikes	1.00	1.00	1.00	1.00	1.00	1.00		
Frt	1.00	0.85	1.00	1.00	1.00	0.85		
Flt Protected	0.95	1.00	0.95	1.00	1.00	1.00		
Satd. Flow (prot)	3400	1568	3400	1845	1845	1568		
Flt Permitted	0.95	1.00	0.95	1.00	1.00	1.00		
Satd. Flow (perm)	3400	1568	3400	1845	1845	1568		
Peak-hour factor, PHF	0.90	0.90	0.90	0.90	0.90	0.90		
Adj. Flow (vph)	360	286	473	641	699	403		
RTOR Reduction (vph)	0	69	0	041	099	147		
Lane Group Flow (vph)	360	217	473	641	699	256		
Confl. Peds. (#/hr)	20	20	20	041	033	20		
Heavy Vehicles (%)	3%	3%	3%	3%	3%	3%		
Turn Type Protected Phases	Prot 7	pt+ov 4 5	Prot	NA 2	NA	pt+ov 6 7		
	1	4 5	5		6	0 /		
Permitted Phases	10.0	62.0	24.2	00.0	60.6	0E E		
Actuated Green, G (s)	19.9	63.9	24.3	89.9	60.6	85.5		
Effective Green, g (s)	19.9	63.9	24.3	89.9	60.6	85.5		
Actuated g/C Ratio	0.15	0.48	0.18	0.67	0.45	0.64		
Clearance Time (s)	4.0		5.0	5.0	5.0			
Vehicle Extension (s)	3.5	=	3.5	4.5	4.5	202		
Lane Grp Cap (vph)	503	744	614	1233	831	996		
v/s Ratio Prot	c0.11	c0.14	c0.14	0.35	c0.38	0.16		
v/s Ratio Perm	2 = 2	0.00	0	0.50	0.04	2.00		
v/c Ratio	0.72	0.29	0.77	0.52	0.84	0.26		
Uniform Delay, d1	54.6	21.5	52.4	11.3	32.7	10.7		
Progression Factor	1.00	1.00	1.00	1.00	1.00	1.00		
Incremental Delay, d2	5.0	0.2	6.1	0.6	8.3	0.2		
Delay (s)	59.6	21.7	58.6	12.0	41.0	10.9		
Level of Service	E	С	Е	В	D	В		
Approach Delay (s)	42.8			31.7	30.0			
Approach LOS	D			С	С			
Intersection Summary								
HCM 2000 Control Delay			33.6	Н	CM 2000	Level of Service)	С
HCM 2000 Volume to Cap	acity ratio		0.76					
Actuated Cycle Length (s)			134.5	S	um of los	t time (s)		18.0
Intersection Capacity Utiliz	ation		66.2%	IC	U Level	of Service		С
Analysis Period (min)			15					
o Critical Lana Croup								

c Critical Lane Group

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	۶	•	4	†	↓	4			
Movement	EBL	EBR	NBL	NBT	SBT	SBR			
Lane Configurations	ሻሻ	7	ሻሻ	†	†	7			
Traffic Volume (vph)	231	478	318	587	501	400			
Future Volume (vph)	231	478	318	587	501	400			
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900			
Total Lost time (s)	4.0	4.5	5.0	5.0	5.0	5.0			
Lane Util. Factor	0.97	1.00	0.97	1.00	1.00	1.00			
Frpb, ped/bikes	1.00	1.00	1.00	1.00	1.00	1.00			
Flpb, ped/bikes	1.00	1.00	1.00	1.00	1.00	1.00			
Frt	1.00	0.85	1.00	1.00	1.00	0.85			
Flt Protected	0.95	1.00	0.95	1.00	1.00	1.00			
Satd. Flow (prot)	3400	1568	3400	1845	1845	1568			
Flt Permitted	0.95	1.00	0.95	1.00	1.00	1.00			
Satd. Flow (perm)	3400	1568	3400	1845	1845	1568			
Peak-hour factor, PHF	0.96	0.96	0.96	0.96	0.96	0.96			
Adj. Flow (vph)	241	498	331	611	522	417			
RTOR Reduction (vph)	0	113	0	0	0	153			
Lane Group Flow (vph)	241	385	331	611	522	264			
Confl. Peds. (#/hr)	241	20	20	011	JZZ	204			
Confl. Bikes (#/hr)	20	20	20			1			
Heavy Vehicles (%)	3%	3%	3%	3%	3%	3%			
Turn Type Protected Phases	Prot 7	pt+ov	Prot	NA 2	NA 6	pt+ov 6 7			
Permitted Phases	1	4 5	5	2	0	0 /			
	17.5	51.1	18.8	67.9	44.1	66.6			
Actuated Green, G (s)	17.5	51.1	18.8	67.9	44.1	66.6			
Effective Green, g (s)	0.17	0.49	0.18	0.65	0.42	0.63			
Actuated g/C Ratio	4.0	0.49	5.0	5.0	5.0	0.03			
Clearance Time (s)	3.5		3.5	4.5					
Vehicle Extension (s)		704			4.5	000			
Lane Grp Cap (vph)	565	761	607	1190	773	992			
v/s Ratio Prot	0.07	c0.25	0.10	c0.33	c0.28	0.17			
v/s Ratio Perm	0.40	0.54	0.55	0.54	0.00	0.07			
v/c Ratio	0.43	0.51	0.55	0.51	0.68	0.27			
Uniform Delay, d1	39.3	18.4	39.3	9.9	24.7	8.5			
Progression Factor	1.00	1.00	1.00	1.00	1.00	1.00			
Incremental Delay, d2	0.6	0.5	1.1	0.6	2.8	0.2			
Delay (s)	40.0	19.0	40.4	10.5	27.5	8.8			
Level of Service	D	В	D	В	C	A			
Approach Delay (s)	25.8			21.0	19.2				
Approach LOS	С			С	В				
Intersection Summary									
HCM 2000 Control Delay			21.7	Н	CM 2000	Level of Servic		С	
HCM 2000 Volume to Capa	city ratio		0.64			2 2 2 2 2 3 3 1 1 0			
Actuated Cycle Length (s)	,		105.2	S	um of los	t time (s)	18	3.0	
Intersection Capacity Utiliza						of Service		C	
Analysis Period (min)			66.0% 15						
c Critical Lane Group									
5 Sillious Lario Oroup									

	۶	\rightarrow	4	†	ţ	4
Lane Group	EBL	EBR	NBL	NBT	SBT	SBR
Lane Group Flow (vph)	360	286	473	641	699	403
v/c Ratio	0.71	0.35	0.76	0.52	0.84	0.38
Control Delay	67.6 13.4	13.4	65.3	14.9	45.7	9.0
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	67.6	13.4	65.3	14.9	45.7	9.0
Queue Length 50th (ft)	193	92	254	362	665	119
Queue Length 95th (ft)	#258	165	#343	467	856	189
Internal Link Dist (ft)	381			511	417	
Turn Bay Length (ft)	70	70	175			100
Base Capacity (vph)	621	873	762	1453	1133	1153
Starvation Cap Reductn	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0
Reduced v/c Ratio	0.58	0.33	0.62	0.44	0.62	0.35
Intersection Summary						

^{# 95}th percentile volume exceeds capacity, queue may be longer.

Queue shown is maximum after two cycles.

01/25/2019 Synchro 10 Report AR Page 1

2: NE Everett St & NE Lake Rd

	•	•	4	†	ļ	4
Lane Group	EBL	EBR	NBL	NBT	SBT	SBR
Lane Group Flow (vph)	241	498	331	611	522	417
v/c Ratio	0.42	0.58	0.54	0.51	0.68	0.37
Control Delay	48.4	13.8	47.7	13.2	32.5	2.2
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	48.4	13.8	47.7	13.2	32.5	2.2
Queue Length 50th (ft)	66	124	96	147	237	0
Queue Length 95th (ft)	169	298	219	439	566	45
Internal Link Dist (ft)	381			511	417	
Turn Bay Length (ft)	200	200	300			300
Base Capacity (vph)	839	1049	1030	1640	1388	1322
Starvation Cap Reductn	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0
Reduced v/c Ratio	0.29	0.47	0.32	0.37	0.38	0.32
Intersection Summary						

Appendix H – 2040 Multilane Roundabout Weekday AM and PM HCS7 Worksheets

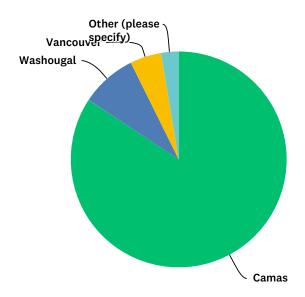
	HCS7 Roundabouts Report																
General Information							Site	Info	rmati	on	n						
Analyst	AR						Inte	ersection			NW Everett / NW Lake Rd						
Agency or Co.	KAI						E/W Street Name				NW La	ke Road					
Date Performed	1/15/	2019					N/S	Street N	lame		NW Everett Street						
Analysis Year	2019						Ana	alysis Tim	ne Perio	l (hrs)	0.25						
Time Analyzed	AM P	eak Hou	r				Pea	k Hour F	actor		0.90						
Project Description	Year 2	2040 Tra	ffic Conc	litions			Juri	sdiction			Camas, WA						
Volume Adjustments	s and	Site C	haract	teristic	S												
Approach		E	В			W	′B		\top	N	В			SB			
Movement	U	L	Т	R	U	L	Т	R	U	L	Т	R	U	L	Т	R	
Number of Lanes (N)	0	1	0	0	0	0	0	0	0	1	1	0	0	0	1	0	
Lane Assignment				-						L	Т			·		T	
Volume (V), veh/h	0	324		257					0	426	577		0		629	363	
Percent Heavy Vehicles, %	0	3		3					0	3	3		0		3	3	
Flow Rate (VPCE), pc/h	0	371		294					0	488	660		0		720	415	
Right-Turn Bypass		Yiel	ding			No	ne			No	ne			Yielding			
Conflicting Lanes							\top	1				1					
Pedestrians Crossing, p/h		20								()				20		
Critical and Follow-Up Headway Adjustment																	
Approach			EB		Т		WB		Τ	NB		Т		SB			
Lane			Left	Right	Bypass	Le	eft Right E		Bypas	Left	Right	Вура	ss	Left	Right	Bypass	
Critical Headway (s)				4.9763	4.9763					4.5436	4.5436				4.9763	4.9763	
Follow-Up Headway (s)				2.6087	2.6087					2.5352	2.5352				2.6087	2.6087	
Flow Computations,	Capac	ity ar	nd v/c	Ratios													
Approach				EB			WB			Τ	NB			SB			
Lane			Left	Right	Bypass	Le	ft	Right	Bypas	Left	Right	Вура	ss	Left	Right	Bypass	
Entry Flow (v _e), pc/h				371	294					488	660		Т		720	415	
Entry Volume veh/h				360	285					474	641				699	403	
Circulating Flow (v _c), pc/h				720				1519			371				488		
Exiting Flow (vex), pc/h				0				488			1031				720		
Capacity (c _{pce}), pc/h				662	662					1013	1013				839	839	
Capacity (c), veh/h				641	641					984	984				812	812	
v/c Ratio (x)				0.56	0.45					0.48	0.65				0.86	0.50	
Delay and Level of S	ervice	1															
Approach				EB				WB			NB		Т		SB		
Lane			Left	Right	Bypass	Le	ft	Right	Bypas	Left	Right	Вура	ss	Left	Right	Bypass	
Lane Control Delay (d), s/veh				15.4	12.3					9.4	13.5				29.3	11.2	
Lane LOS				С	В					А	В				D	В	
95% Queue, veh				3.5	2.3					2.7	5.0				10.6	2.8	
Approach Delay, s/veh				14.0							11.8				22.7		
Approach LOS				В							В				С		
Intersection Delay, s/veh LO						16.5							С				
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	HCS7 Roundabouts Report																	
General Information							Site	e Info	rn	natio	n							
Analyst	AR						Inte	ersectio	n			NW Everett / NW Lake Rd						
Agency or Co.	KAI						E/W Street Name					NW Lake Road						
Date Performed	1/15/	2019					N/S Street Name					NW Everett Street						
Analysis Year	2019						Ana	alysis Tii	me l	Period (hrs)	0.25						
Time Analyzed	PM P	eak Hou	ır				Peak Hour Factor					0.96						
Project Description	Year 2	2040 Tra	ffic Cond	itions			Juri	isdiction	1			Camas,	WA					
Volume Adjustments	and	Site C	harac	teristic	S													
Approach			EB			V	/B				N	В			SB			
Movement	U	L	Т	R	U	L	Т	R	Î	U	L	Т	R	U	L	Т	R	
Number of Lanes (N)	0	1	0	0	0	0	0	0		0	1	1	0	0	0	1	0	
Lane Assignment											L	Т					Т	
Volume (V), veh/h	0	270		478				\Box	Ī	0	313	587		0		501	400	
Percent Heavy Vehicles, %	0	3		3						0	3	3		0		3	3	
Flow Rate (VPCE), pc/h	0	290		513						0	336	630		0		538	429	
Right-Turn Bypass		Yie	lding			No	ne				No	ne			Yielding			
Conflicting Lanes			1								1			1				
Pedestrians Crossing, p/h	p/h 20										C					20		
Critical and Follow-Up Headway Adjustment																		
Approach				EB		Т		WB				NB		Т		SB		
Lane			Left	Right	Bypass Le		eft	ft Right E		Bypass	Left	Right	Вура	ss	Left	Right	Bypass	
Critical Headway (s)				4.9763	4.9763	3			T		4.5436	4.5436				4.9763	4.9763	
Follow-Up Headway (s)				2.6087	2.6087	,			T		2.5352	2.5352				2.6087	2.6087	
Flow Computations,	Capa	city a	nd v/c	Ratios	;													
Approach				EB			WB		NB		SB							
Lane			Left	Right	Bypas	s Le	eft	Right	В	Bypass	Left	Right	Вура	ss	Left	Right	Bypass	
Entry Flow (v _e), pc/h				290	513				T		336	630				538	429	
Entry Volume veh/h				282	498		Ì		T		326	612				522	417	
Circulating Flow (vc), pc/h				538				1256				290				336		
Exiting Flow (vex), pc/h				0				336				920				538		
Capacity (c _{pce}), pc/h				797	797				Τ		1091	1091				980	980	
Capacity (c), veh/h				772	772						1059	1059				948	948	
v/c Ratio (x)				0.36	0.65				Т		0.31	0.58				0.55	0.44	
Delay and Level of S	ervice																	
Approach				EB				WB				NB		Т		SB		
Lane			Left	Right	Bypas	s Le	eft	Right	В	Bypass	Left	Right	Вура	ss	Left	Right	Bypass	
Lane Control Delay (d), s/veh				9.1	16.0						6.4	10.8				11.1	8.9	
Lane LOS				А	С						А	В				В	А	
95% Queue, veh				1.7	4.8				Π		1.3	3.8				3.5	2.3	
Approach Delay, s/veh				13.5	-							9.3			10.1			
Approach LOS				В								Α				В		
Intersection Delay, s/veh LO	S					10.8								В				
Copyright © 2019 University of	c Poconio	nd.	Ш	^\$7 ਜM	Round	dabouts	Vor	sion 7/	1		(onor	atod: 1/	25/2010 9	·21·11 AM			

Appendix D Online Survey Results

Q1 Where do you reside?

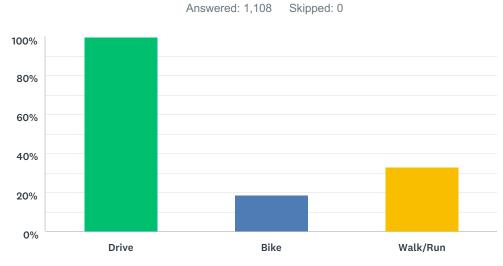
Answered: 1,108 Skipped: 0



ANSWER CHOICES	RESPONSES	
Camas	84.30%	934
Washougal	8.39%	93
Vancouver	4.69%	52
Other (please specify)	2.62%	29
TOTAL		1,108

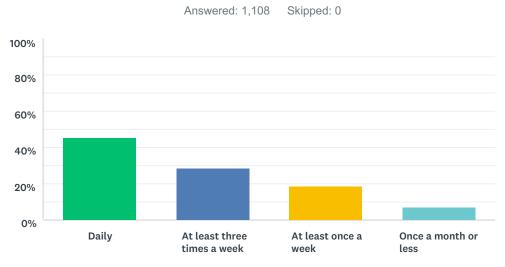
Where	do you reside?
Other	(please specify)
1	North of Camas but have Camas address and zip
2	Livingston Mtn but I consider myself a resident of Camas
3	North Bonneville
4	Camas Produce
5	N. Bonneville
6	Just north of Camas city limits, north of Lacamas lake
7	Very East Clark County
8	Fern Prairie
9	Battle Ground was in Camas for 4 years
10	fern prairie
11	Portland
12	Livingston Mtn. area of Unincorporated Clark County
13	Clark County
14	Fern Prairie
15	hills north of washougal
16	outside Camas (Fern Prairie, near the airport)
17	Alaska
18	Boring
19	Reside in yacolt own house in Camas
20	Portland
21	Brush Prairie
22	Fern Prairie just outside "city limits"
23	Fern Prairie
24	Building home in Camas/Livingston Mtn; hope to finish by May
25	Portland
26	Camas Urban Growth Boundary - Clark County
27	Cowlitz County
28	Clark County
29	outside camas

Q2 Do you drive, bike, or walk/run through the intersection? (Select all that apply.)



ANSWER CHOICES	RESPONSES	
Drive	99.55%	1,103
Bike	18.68%	207
Walk/Run	32.85%	364
Total Respondents: 1,108		

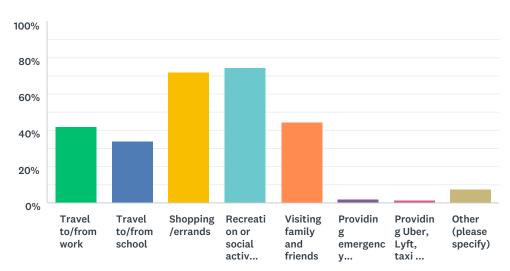
Q3 How often do you use the Lake Road/Everett Street intersection?



ANSWER CHOICES	RESPONSES	
Daily	45.67%	506
At least three times a week	28.70%	318
At least once a week	18.50%	205
Once a month or less	7.13%	79
TOTAL		1,108

Q4 What reasons do you have for using the intersection? (Select all that apply.)





ANSWER CHOICES	RESPONSES	
Travel to/from work	41.88%	464
Travel to/from school	33.75%	374
Shopping/errands	71.93%	797
Recreation or social activities	74.55%	826
Visiting family and friends	44.68%	495
Providing emergency response services or transport	2.08%	23
Providing Uber, Lyft, taxi or other rideshare services	1.35%	15
Other (please specify)	7.31%	81
Total Respondents: 1,108		

What r	easons do you have for using the intersection? (Select all that apply.)
	(please specify)
1	On way to recreate
2	Intersection lacks parking for recreation
-	Use it as an alternative route.
3	
4	to and from Dr.
5	Preferred route throuh area. Pretty
6	To and from doctor appt & Post Office
7	Travel multiple times daily through lake road and everette
8	Live around the corner from the Intersection
9	rides to medical appointments
10	owner of Camas Produce
11	Travel to my property, Travel to church
12	School bus driver for Camas Schools
13	Drive school bus for Camas
14	Dr appts
15	CSD activities, kid after-school activities downtown
16	Travel to and from church
17	Church and recreation
18	I choose to avoid intersection a certain times, when the high school let's out & rush hour
19	To get home
20	Getting son to swim team
21	I would love to drive this way but have found a different way because this traffic make me late.
22	I live there
23	Picking up from high school
24	biking (may be under Recreation)
25	Travel to soccer practice
26	Traveling to CHS to pick up student or attend an event
27	Church
28	Work
29	Library
30	Access to travel west into the gorge for roadtrips
31	Taking my daughter to preschool
32	Coast to Coast/ Camas Produce
33	Professional services
34	Attend Church
35	Travel to/from appointments
36	Picking up mail from Post Office
37	I want to
38	We use it daily multiple time only live a block away
39	Sunday to church
40	Drive school bus for Camas
41	High School activities
42	Camas school bus driver who lives on Everett very close to the intersection
43	Doctor & Dental appointments
44	For work
45	Main way in and out of town to hwy

46	church
47	school bus driver
48	Going to the park
49	Going to church-related activities
50	It's 1 of only a couple means to connect Camas to East Vancouver.
51	Delivering products to customers, working with the deli to provide food for our business
52	I bike through the intersection 2-3 times per week as part of my training regimen
53	Church
54	travel to church & back several times weekly
55	Church
56	No particular reason
57	Doctor appointments
58	city of camas parks employee so frequent travel
59	to/from volunteer work
60	Selling real estate
61	travel to/from church
62	Walking my dogs
63	I teach in Camas and sometimes have meetings at the high school.
64	Charity work at community center
65	sports and to the freeway
66	Because it is a beautiful drive
67	church
68	Kid pickups/dropoffs
69	Church
70	To/from church
71	back and forth to town
72	Church
73	To hike the trails around Round Lake
74	Volunteering
75	Meetings at Lacamas Lodge
76	Volunteer at Lacamas park
77	Drive it for work multiple times a day. (School bus driver)
78	Going to the parks
79	Business trips
80	Library
81	Girl Scouts, Volunteering, Music lessons

Q5 What are some of the issues you've experienced with the current intersection?

818 responses

What a	are some of the issues you've experienced with the current intersection?
	a comment:
1	Gets really backed up when the high school gets out.
2	Where is new parking
3	traffic
4	Long Backups in the morning. Long backups turning left on to lake road
5	Certain times of day traffic can back up well up Lake road
6	Back up and wait time
7	Traffic backup at current light is horrible
8	Long backup on lake road
9	Large amounts of traffic and backlog around school start/end hours
10	Park visitors park on the street create parking
11	Coming down lake road to shop at Camas produce making a left turn with traffic in the back is narrow,
	wider road to allow for left turn would be nice
12	Has no shoulders still people park at the stop light and go walking the park
13	Park entry by intersection does not have enough parking
14	Long waits to get through light, unable to turn out of LaCamas park
15	Traffic, lack of protected right onto lake road
16	Lots of traffic around school times
17	need to be able to left turn in to Camas Produce and Coast to Coast seafood cart!
18	Really long lines
19	Traffic back up
20	Traffic
21	Red light running to turn left
22	Long backups.
23	Traffic backed up. Not enough room for pedestrians or bikers on side of road.
24	
	Long wait times stopped at the light waiting for it to change and making left hand turns congestion. A
	round about might fix this. Also when you walk back and forth between the lakes parks it is scary
	because of all the traffic a pedestrian land bridge would be very beneficial for Walkers and bikers.
25	safety issue, need turn lane into Camas Produce.
26	HUGE backups! Also not always secure that oncoming cars will stop for my motorcycle.
27	Long waits to turn left from Lake. Difficulty getting in and out of the Round Lake parking lot. Parking
	insufficient in that lot.
28	Long wait times
29	long traffic delayscongestion
30	Traffic backups!!!
31	Long waits
32	Long wait.
33	Busy
34	Long backup on Lake Road to turn south onto Everett - turn lane is blocked by traffic turning north.
35	Mostly it is after or before school when the traffic is so heavy.
36	Significant traffic congestion.
37	Some days there are a line of cars on lake road trying to turn left.
38	,
	The traffic gets really backed up, causing delays. There's too much traffic for so many people.
R	

39	Opposing traffic sometimes doesn't yield to left green light vehicles
40	Large backups, especially around school start/end times
41	Occasional traffic (school time), otherwise no issues.
42	Long line of traffic going eastbound on Lake Rd at times
43	It can get pretty congested at times.
44	Traffic at beginning/end of school day
45	Too many people
46	I don't always make it through the light and need to wait for the next one.
47	it gets really clogged and backed up in the morning school commute times
48	
	No issues. Certain times of day the traffic backs up on lake road usuallly around 6pm. I turn right to go
	southbound on everette. The signal is good but if the right turnlane could be extended that will help
49	Extremely slow during school bus peak hours. and foot traffic crossing is difficult.
50	Trouble turning left from NE 35th onto Everett going south due to backup in traffic.
51	terrible backups during school commute. why don't they use busses we pay for?
52	
	Busy with highschool traffic in morning and afternoon, busy in evening when commuters come home
53	Crossing Everett as a pedestrian
54	I use my bike from neighborhood close to the high school to go use the park by the lodge or shop at
	Camas produce there is no safe way to get to Camas produce unless I go the wrong way from the stop
	light
55	intersection by a park limited legal parking, no access to local businesss
56	Congestion
57	safty issues for Camas Produce's customers traveling south and trying to make a left turn to shop at
	Camas Produce.
58	traffic backs up very quickly
59	Backups and delays
60	Long backups
61	At school start end times it can back up for a 1/2 mile at least
62	No issues, I'm patient!
63	Long waits during school dismissal times
64	Backed up, had to wait for more than one light cycle.
65	Not widen enough from Lake Rd to make a right to Everett, coupled with people not knowing they can
	make a right on red.
66	Is frequently backed up.
67	Lwalk at Lacamac Bark (at Bound Lake) coveral marnings a week. Turning left out of the newling let is
	I walk at Lacamas Park (at Round Lake) several mornings a week. Turning left out of the parking lot is
60	difficult at the best of times. It will be nearly impossible if a round about replaces the stop light. Too small for volume of traffic.
68	
69 70	Bad cross walk, congestion, poor sidewalk, Congestion
71	Traffic backed up
72	Large backups in the morning and after school.
73	Actually, I have no problems with the intersection
74	There can be a lot of congestion build up. Also, people turning right from lake often get stuck behind
'4	the long line of cars turning left, making congestion worse.
75	Traffic backups at the light; concerns with people walking
/5	Traine backups at the light, concerns with people walking

76	No way to downtown if the traffic is backed up.
77	Traffic
78	Occasional major traffic delays; highly un-optimized walk signals
79	Speed of traffic, no sidewalks, flow
80	Congested flow of traffic.
81	
	It is a bottleneck for those turning right into Lake Rd as well as everyone coming from Lake Rd.
82	Extreme back ups during school hours. Unsafe for bicycles and podestrians because of no sidewalks
	along Everett.
83	Poor bike crossing
84	Backups and extremely long waits.
85	Very long waits after school and in the afternoon
86	hard to cross the road as a pedestrian; hard to use bike lane as a biker
87	It can back up during school related times, beginning of school day or sports events.
88	Long delays
89	Excessive traffic during morning and afternoon commute times and special events
90	Long lines at peak times
91	Traffic congestion
92	Long wait times to make a right turn from Lake onto Everett.
93	A lot of traffic after school
94	Backup of traffic in all directions, long delays
95	During certain times traffic can be backed up making a wall of vehicles.
96	Long lines backing up Lake Road
97	Back up issues in the morning and afternoon school commute
98	Traffic delays
99	Unsafe u turns when traffic backs up on lake road
100	
	Long delays. Especially frustrating when there is a huge line of traffic on one road and little traffic on
	the other and yet the signal doesn't seem able to adapt to the changing traffic patterns.
101	Excessively long wait times to pass through the intersection at various peak times of the day, e.g. before
	and after high school begins/ends.
102	Congestion, limited visibility
103	the light takes a long time, and is pretty chaotic. people make many illegal turns
104	
40-	There are too many cars coming into town from both the lake road and out of from the high school area
105	Would be nice to have a pedestrian bridge.
106	It takes forever and sousse traffic and is constantly some accepted and it soulle and board it COME
107	It takes forever and causes traffic and is constantly super congested and it sucks and I want it GONE
107	Long waits Vehicles are backed up too long at the Lights
108 109	venicies are backed up too long at the lights
109	When I was a nappy in the 1st neighborhood to the left on Lake Pd. I would see almost on a daily basis
	When I was a nanny in the 1st neighborhood to the left on Lake Rd. I would see almost on a daily basis Camas High School teenage drivers run red lights. Also the congestion from people going to and from
	the schools from those neighborhoods off of Lake Rd. is awful. One time it took me 45 minutes to get
	from there to my house in the Goot Park neighborhood where I have lived for 20+ years. That's when I
	started taking the long way home.
110	Everett is not 4 lanes. Thats really is the biggest issue here. All else would work itself out
110	Liverett is not a lanes. Thats really is the biggest issue here. All else would work itself out

111	Long lines/wait times. Trying to take a right onto Everett is a nightmare, especially getting stuck behind
	everyone waiting to take a left.
112	Long waits during school hours
113	Wait is too long
114	Congestion during peak school commute hours
115	Usually none, except when school gets out at the high school or other times when traffic is higher, it
	gets backed up.
116	I walk Round Lake & can't get out for many minutes if the school traffic is occurring. Young drivers often
	make poor choices from what I've seen (high school kids.)
117	Long waits
118	no right turn lanes
119	Difficult for pedestrians or people on bikes on the side near the lake and lacamas lodge
120	Traffic during school opening and let out time is bad.
121	Roundabout would keep traffic moving smoothly. Left hand turn from downtown West is should not be
	blinking; too much traffic.
122	It gets extremely backed up before school/when school lets out.
123	Major congestion backing up on Lake street. A right turn lane there would alleviate some of the
	problem.
	Morning and afternoon traffic to/from Camas High causes major delays.
125	heavy traffic during school start and end times
126	Traffic - bad backups on Lake Road when there are activities at the high school.
127	back up because of turn,extra cars due to schools
128	Very backed up in the morning commute
129	Long wait at stop sign
130	Too many cars trying to go in one direction and not enough lanes.
131	I live not far from this intersection. We cannot get out of our street during congestion. The wait times
	can be very long.
132	Delays during heavy traffic times.
133	
	Too much congestion during school hours. Too much congestion and not enough planning/parking or
	code enforcement during the Lake's Spring/Summer recreational months. It is out of control!
	Narrow Road, long waits due to highschool traffic and no room for bicycles.
135	I don't have any issues.
136	Back up on Lake Road and the back up on Everett from the high school
137	Long lines to turn left onto Everett from lake road.
138	Before and after school hours it becomes very congested. It also very hard during anytime of the day to
	enter or exit round lake parking lot.
139	
	Extensive traffic that lacks effective flow. There is also significant mixed congestion between cars,
	buses, pedestrians, runners and cyclists. I think that a way to separate non motorized traffic and
	pedestrians in crossing the road and lake is essential. Perhaps a separate bridge but certainly not using
	the same road or roundabout. That is inviting accidents.
140	The back up on lake road from the school is the challenge - from the backup of the light turning from
	high school, then getting backed up onto Everett. Maybe a turn lane onto lake would help? Or a
	updated light sequence? Thank you for asking
141	Not much

142	If it is when school is letting out, I will get caught up in a masjid traffic jam. I try to leave the area before
	then.
143	Long delays
144	Delays
145	The intersection has always been perfectly fine with the exception of when there has been
	construction. However, I never travel this route during morning rush hours.
146	Lack of sidewalks on BOTH SIDES of Everett Street. Look where people already walk. Sidewalks should
	go all the way from high school to downtown Camas.
147	The backups on lake road heading towards Everett can be lengthy causing traffic to wait through several
	lights to turn north on to Everett.
148	Get's crowded during school commute but never too bad unless there is construction.
149	
	Hoping roundabout is strongly considered. For either option, hope most effective design to create safe
	travel is used, even if private property needs to be acquired. Now is the time to make this intersection
	effective for the heavy traffic flow. It is not going to decrease, only grow.
150	No parking, to much traffic always backed up, to many people on bike and no sidewalks, people going
	around other cars in not a lane waiting for the light, need wider turn lanes
151	Traffic can often be backed up west of Everett all the way to lacamas lane in the morning. I have seen it
	backed up all the way to Sierra.
152	We live off 35th and the congestion that happens in the morning and evening makes it almost
	impossible to get out onto Everett. Please keep that in mind for those visiting the lake and the 30
	homes that must use 35th to get to and from home daily.
153	Lots of backed up traffic.
154	To many cars, not enough lanes, short lights
155	Traffic backs up. Confused drivers.
156	left turn from NE Lake Rd. to NE Everett is so long on waiting during peak hours in morning
157	Traffic congestion, long waits on lights
158	Waiting too long at that intersection, especially between 3 p.m. and 5 p.m.
159	Congestion @ long wait times to get through the light
160	Long waits to get on Everett from Lake
161	Long lines of traffic when high school lets out.
162	Long wait to turn
163	stay away b4 school and after. traffic backed up past light to high school
164	Lake Road gets backed up too far
165	There is congestion and backup at certain busy times but I'm not sure a roundabout would solve the
	issue. I see potential for more accidents plus all the trees and beauty that would be destroyed in the
	process.
166	Traffic
167	Long wait times at the i tee section during rush hour: school start times and after school, Friday night
	event times.
168	Blind spots. Crossing the streets is not safe for cyclists and Pedestrians
169	I often cannot safely turn left on to Everett from 35th in the morning going to work. Its then very
	difficult to turn right on to lake road b/c there is no turn lane. I cannot get home easily because in the
	afternoon cars/traffic is backed all the way up lake road because the intersection is so busy. It's not safe
	for drivers, hikers or bikers. Please do something.

170	
1,0	When the high school lets kids out at the end of the day, traffic between Leadbetter and Lake is horribly
	backed up. Also in the evening when people are getting off of work, there is a lot of congestion.
171	backed up. 7430 in the evening when people are getting on or work, there is a for or congestion.
1/1	Safety issueTurn Lane needed for Camas Produceyou have to understand and respect that all who
	shop there deserve to be safealso that we support local businessTHAT is key to our area.
172	Excessive traffic, especially weekend and after 3:00pm
173	Congestion during school communtes
174	Sharp turn in narrow area without enough warning. Long wait times.
	Lots of traffic
175	
176	Congestion
177	Heavy traffic
178	Traffic Congestion
179	Really long line on Lake to turn onto Everett
180	Traffic congestion
181	Turning left onto Lake road can be tricky
182	Construction of allows moved by more last to a constitution to be a first to the construction of the constitution of the const
40-	Cars parked along road bc parking lot too small for the lake. Narrow road and too many vehicles
183	WAAAY too many cars coming/going from the schools. They should use the buses, since taxpayers are
	paying for the buses. This would alleviate 80 percent of morning and afternoon traffic. Then we
	wouldn't have to waste money on "improvements".
184	Long wait times dictated by Camas High School schedule.
185	Very long delays when school is letting out
186	The school traffic
187	Illegal street parking causes unsafe conditions need more parking by the intersection
188	the amount of traffic during school times.
189	Traffic backed up long distances on Lake Rd. Blind right hand curve by Lacamas Lake Lodge. Long waits
	at traffic lights.
190	Traffic backs up
191	Long lines of traffic - people not paying attention when it's their turn to go.
192	The back up waiting for a green light
193	
	Traffic backs up pass turn to CHS in the afternoon as late as 25 minutes after school dismissal. When
	warm weather kids running and having fun by the lakes, but not paying attention to traffic.
194	It gets pretty backed up with traffic in the am and afternoon due to school, events, etc. I'm concerned
	about the environmental effects of the traffic.
195	I have had no issues
196	Backed up traffic
197	Long waits, stupid congestion for our once small townfrustrating
198	Traffic
199	Common answer: traffic delay. A roundabout won't solve it! People neededing to go north on Everett
L	from lake will NEVER yield during busy times! It will be worse then the light.
200	Long wait times in am and pm
201	Mostly backups. Hard to cross.
202	Long back up during school starts/dismissals
203	
	Ability to leave the parking lot at Round lake safely heading towards the Everett/Lake Road Intersection

204	
204	Excessive wait times at certain hours. Also bike and pedestrian access takes time and requires care.
205	Traffic
206	Traine
200	Several times I've almost been side-swiped while on my bike by a car entering the bike lane. I try not to
	drive to Lacamas Park for several reasons but this is a dangerous intersection for cyclists. Also, I've
	gotten stuck in traffic on Lake Rd. like many other motorists.
207	Coming infrim Lske rd is congested.
208	Long delays during school pick up/drop off.
209	Traffic backed up from CHS to Lake road during school start/end times, also long back ups on early
209	evening when people are coming home from work
210	It's terribly hard to ever turn out if the park lot because of the intersection. Also, there is an extreme
210	backup every morning due to Camas HS traffic and the fact that it's a one lane road! It is far too long of
	a wait and is a dangerous intersection for new teenaged drivers to have to try to rush through to get to
	school since the wait is so long!
211	Large backups during school to and from hours.
211	Large backups during scribor to and from flours.
212	Backed up traffic and unsafe running/biking conditions for high school athletes or commuting students.
213	Slow traffic (from Camas High School) and construction slow downs
	impatient drivers on red light rt turns, inability to see approaching traffic
214	Heavy traffic before and after high school.
216	Heavy congestion.
217	Long waits, usually coming down Lake Rd
217	the backup at the intersection goes all directions. Time has to be added on to any trip to that area.
210	Getting onto Everett from side roads is a pain and is dependent on someone (s) being nice enough to
	let you onto the road.
219	Long waits at the light during peak travel hours.
220	Such congestion now especially since Camas High was built. I lived in the area for 25 years, never seen it
220	so bad. Round about may just work good.
221	None really. A little busy at peak hours.
	I have experienced long delays because of traffic in almost all directions of the current T traffic layout.
	Long delays when taking my son to the high school (going North) and longer delays when returning
	home (going South) I have experienced delays when going west on lake road from Everett and going
	east on lake road during "rush hour" trying to get to Everett. Using the Lacamas lake recreation parking
	area is not easy during these hours.
223	Long traffic delays. Tight spaces for cyclists.
224	Too long of wait for lights because of usually school buses
225	
	There needs to be a right hand turning lane at the very least. (Going from lake road onto Everett). Really
	needs to be a three lane road but I dunno of that's possible in that small space.
226	There are no problems except to avoid between 3:10 and 3:40. Otherwise fine.
227	long back ups on lake rd turning south onto Everett.
228	Traffic jam
229	Long delays on Lake Road, backed up traffic both ways
230	Traffic before/after school
231	Long delays during CHS start & end times. Accidents often increase during that time frame. Weekends
	are difficult with park access and parking along the road.
	and an individual and the second and

232	Need easy access to camas produce form the roundabout
233	Traffic
234	Turning through busy traffic. Trying to exit the park lot is difficult as well.
235	Heavy traffic. Come to a complete stop. A roundabout would be more efficient
236	Need defined turn lane from south bound to west bound
237	I want to make sure that there is continued easy access to Camas Produce as I have to turn there for
	work in my truck.
238	Cars being backed up in ridiculously long lines waiting for the light
239	Long wait, heavy traffic
240	
	"Safety issue. Please provide turning lane for customers coming the roundabout to Camas Produce".
241	Heavy traffic
242	I avoid it if it's around or after 5pm
243	I work at Camas High School. It is very crowded in the morning when students are arriving. Sometimes it
	backs up Lake Road past the boat ramp parking lot at Lacamas Lake. I think I've had to cycle through 5-6
	light changes to get through.
244	Traffic congestion.
245	People trying to turn right from lake road to everett get caught up with people turning left onton
	everett bc the right turn lane isnt long enough
246	Heavy traffic
247	Many of the issues with this intersection stem from stupid drivers.
248	Traffic backed up on lake road
249	Long lines waiting for light to turn at traffic times.
250	Occasional conjestion at peak times, but it's not that bad.
251	Long backups at the light.
252	Sometimes it's ambiguous for drivers to know that I am there as a cyclist and that I should have a turn,
	too.
253	Longer lines of cars backed up onto Lake around curves; people aren't expecting to stop suddenly; too
	many cars parked on Lake and Everett in summer for park parking; too many pedestrians and bicyclists
	on roads where there isn't space
	During peak times the wait is excessive
255	Impossible to turn left from lake rd onto Everett unless a car is doing the same. Also, Everett is backed
256	up all the way to the stoplight when the high school gets released.
256	Traffic flow is an issue
257	Back up on Lake Road
258	Extreme traffic backups
259	Long wait time on stop light when people cross the road. It seems 10 seconds too long. Line moves
	slowly due to congestion. No right hand turn lane onto Lake Rd coming from the high school so have to
260	wait for car in front who is heading south to move forward.
260	Long wait times at signal Often there is a backup but coming around the curve makes it hard to see
261 262	Often there is a backup but coming around the curve makes it hard to see.
	Very busy during school hours Severe back ups during school start and finish times
263	Severe back ups during school start and finish times.
264	Enhance entrances at the park and Camas Produce Cars are backed up past 43rd intersection
265	· ·
266	heavy congestion with school traffic twice daily Congestion from high school traffic hefore school starts and after students are released.
267	Congestion from high school traffic before school starts and after students are released

268	
	Long waits in all directions especially during rush hour and the high school start and end times.
269	Extreme traffic congestion. Trouble accessing back onto either Lake or Everett from parking lots due to
	heavy traffic and traffic backups.
270	Traffic congestion
271	Waiting when there shouldn't be a wait if turn lanes existed. Not being able to easily get from round
	Lake to lacamas lake by way of walking.
272	Traffic Jams
273	Back up onto Lake road having to wait 5+ minutes
274	
	Worried about getting into Camas Produce without a turn lane, please consider it for everyone's safety!
275	congestion
276	Gridlock during bus route activity
277	Traffic and backup in morning
278	The light at the high school is not synchronized and causes problems. There is no sidewalk for folks
	walking up. There is no bike lane when coming down lake road and I am forced to use the pedestrian
	crosswalk because cars do bot respect a bike in this intersection
279	hard to turn into and out of Camas Produce
280	Not many issues, but occasionally some backups during peak times
281	Increased congestion. Speeding.
282	
	Whenever CHS have events, the intersection gets congested and it could take 30 min to get through.
	Morning and after school traffic is really bad. Also, we could use a padesteian/bike bridge instead of
	pedestrian Cross walk so it does not disturb the traffic flaws.
283	
	Safety Issue: Please provide a turning lane for us to turn into and it of Camas Produce. Thank you
284	high traffic volume in the mornid afterno. I've seen cars backed up all the way up the hill , by the old
	Lacamas Heights school.
285	Difficult to turn right onto Everett due to traffic backing up on Lake Road, many of whom are waiting to
	turn left.
	major back ups especially when the schools let out
287	Not safe and not enough room for cars, walkers/runners and bikers to use it safetly
288	Mainly I have issues trying to turn left onto Lake Rd from the Heritage Parking Lot. I also think there
	should be more trail hiking car parking there.
289	
	very high traffic volumes in morning and at mid afternoon when high school lets out. Also, there needs
	to be a right turn lane for the transition from 500 to lake road. A good portion of the traffic on 500 at
	that intersection turns onto Lake Road, without a turn lane trqaffic backs up significantly. I think the
	volume of peak traffic will make a round about unsafe and will result in a higher accident level. I've
	noticed that since the population has increased drivers are more impatient and tend to drive more
	recklessly than a few years ago. I think a round about at that location is the wrong solution. Given the
	traffic levels and the lake access by pedestrians crossing 500, a positive control traffic light intersection
	with a right turn lane onto Lake from 500 south bound is the only safe solution to the increasing traffic
	at that location.
290	Long waits at the light, especially when there is road work going on.
291	Traffic banked way up in both directions. After HS gets out it's a mess.

292	
	The left turn lane going from Lake Road to Everett has a disproportionately slow light, and it backs up
	traffic. The design of the road also makes it so that very few cars can turn left at a time. Meanwhile, the
	light that goes straight on Everett is green for too long when there's much fewer traffic on that side.
293	Green light time from lake road is disproportionate to the green light time on Everett from downtown
	to the high school
294	A lot of traffic
295	Traffic waiting to turn left onto Everett block traffic turning right.
296	Traffic
297	Very long waits, anxiety crossing the intersection by foot
298	, , , , , , , , , , , , , , , , , , , ,
	Long traffic lines producing a wait that last de real cycles. Traffic turning into Camas Produce creating
	backups. It is very difficult to turn south out of Camas Produce, a popular store.
299	Concern for pedestrians and cyclists
300	no problem other than long wait at light
301	"Safety issue. Please provide turning lane for customers coming to Camas Produce through the
	roundabout.
302	Long delays and no turn lane into the produce store
303	to much traffic, mostly when the high school lets out, you can't get through the intersection for several
	lights, then evening rush hour is the same thing again
304	Traffic backup
305	People not knowing where they are going and change lanes at last second.
306	Left turn going to Lake Road if your coming from NE Everett St. is very difficult especially if lots of
	vehicles coming from the other way.
307	Delays at certain times of the day.
308	It is so backed up it takes triple the time to get where I'm going
309	
	the largest impact currently is when you are turning left off of Lake Rd and are unable to since the
	pedestrian light has stopped traffic. I understand this is for safety but it really backs up travel and I have
	seen too many people get impatient about waiting, then they make poor choices.
	Traffic. Longer than desired wait at lights especially pre and post school times.
311	Overall it's pretty smooth. Big backups during school drop off times.
312	Major traffic jams similar to a large metropolitan city which is where most of the people causing the
212	traffic and problems have come from
313 314	Very high traffic at certain times-related to school it seems
314	Backup on lake road past the park area. Delays during Camas High school start and end of day
315	Backup on lake road past the park area. Delays during Camas High school start and end of day. safety. need turn lane to Camas produce.
316	Slow traffic at times, like commuting hours and when when school gets out.
317	Long waits to turn left primarily from Lake Road to Northbound Everett and vice versa. Seems to be
31/	most problematic during school start and end times and 5:00 PM commute
318	Long wait times during certain times of day
319	Long line- back up when coming down Lake, turning into Camas Produce - please provide a turn lane
	into the store.
320	Delays
321	Safety. Turning lane for camas produce
322	Long lines at signal
	ı ~ ~

323	Traffic congestion due to Camas High School.
324	
	no problems ever at this intersection, and ive delivered mail on this route. i hate roundabouts though.
	ive been nearly hit many many times in the dumb Washougal roundabouts. if you install that terrible
	looking roundabout, traffic on everett will never stop for lake road tragfic, creating a traffic nightmare
	and many accidents.theres a place for traffic lights, and this is one of them.
325	Please provide turning lane to Camas Produce for people coming from the roundabout to shop at
	Camas Produce. This is a serious safety issue and should not be ignored.
326	
	Traffic gets backed up especially on lake road when there is extra traffic from schools just getting out
327	Please provide safety studies on roundabout use versus traffic signals.
328	Please provide a turning lane into and out of the Camas Produce packing lot.
329	City did not think ahead about moving the high school, increase in population, and the volume of traffic
	on a 2 lane road. Bad planning on the city's part. I suggest widening 500 from Leadbetter rd to 14th and
	making it 2 lanes in both directions. Let's not do the same mistake as the slough bridge over the
	Columbia and say that you are winding it then "runout of money", then settle for 2 lanes again. No
	improvement in traffic flow.
330	
	Safety issue. Please provide turning lane for customers coming the roundabout to Camas Produce
331	Traffic and bad pedestrian & bike access. Dangerous Shoulders.
332	Cross walks not be available around the entire perimeter of the intersection.
333	I have to allow extra time during school hours, but it didn't bother me, since the traffic is fairy short
	lived.
334	Grid lock at certain times
335	Safety- please make a turn lane for camas produce
336	Delays in the morning due to heavy traffic. Weekends and other times seem to be fine
337	There needs to be a turning lane. When traffic is busy, I can't get out of my driveway.
338	
	Safety issue. Please provide turning lane for customers coming the roundabout to Camas Produce". P
339	congestion
340	Traffic, unsafe for pedestrians and bicycles
341	Long wait times. Overall poor planning by those who decide on the infrastructure.
342	Back up when school is let out
343	Long lines at light
344	I live by Camas high School and travel South for work and visit Camas produce for my daily food run,
	current left turn is a pain, wider road with a left Turn to enter Camas Produce would make me feel
	safer, and more parking for the park would be awesome to have
345	it is very conjested
346	Long lines get through the intersection or getting in and out of the parks.
347	At peak times, the light only lets 7 cars through at a time and it's not fast enough. People turning left off
240	of Everett onto Lake Road usually cut the corner
348	Walking space is very limited in general
349	Vehicle congestion. Too many vehicles for the area. Bike riders going around vehicles to get where they
250	are going faster. This is Not safe for drivers or riders.
350	Traffic being backed up and unable to turn left on Everette from Lake
351	Busy during school commute
352	Long backups during school start and end times.

353	Too many parents drive kids to school instead of using buses provided by school.
354	Certain times of day the delays are very long.
355	excessive wait times during morning school rush
356	Traffic backed up; pedestrian access
357	Extremely congested at school let out time
358	Noticeable increase in congestion during school days, before and after school hours.
359	Congestion during school commute is sometimes a 20 min wait
360	Heavy traffic when the high school begins and ends and heavy traffic about 4:30-5
361	Cars backed up on Lake Rd. past Lacamas Lane to get through the left hand lane. Pedestrian/bicycle
	congestion and parking lot overload which creates unsafe driving due to visual obstructions (parked
	cars at intersections)
362	While Camas doesn't really have a congestion problem, this intersection is severely impacted by school
	traffic on weekdays.
363	Waiting in long lines to turn onto either Lake Rd or Everette especially before and after school. Why
	wasn't something done when the schools were built that are causing the traffic issues. Plus all the
	home construction has made Everett a very busy road.
364	Long wait times and congestion
365	At the stoplight, the left turn lane fills up (especially when a bus is present) so that all southbound
	traffic is held up as far back as the intersection uphilla continual problem. Cars wanting to make a
	right turn at light are waiting for as long as 9 signal light cycles.
366	back up around the lodge during school drop off and pick up hours
367	Long delays - backup of traffic
368	Long delays
369	Too much traffic.
370	Too much congestion
371	Traffic
372	
0, =	Long back-ups on Lake. Long wait for left turn from Everett to Lake. People running the light on Everett.
373	No pedestrian crossing at Fallen leaf park entrance
374	500 coming from the north gets backed up
375	Can be very crowded during school arrival and release hours. Also in the warmer months when people
0,5	are using the facilities at Lacamas.
376	too narrow, needs a right turn lane for south bound Everett. Sometimes light is red for my direction for
0,0	long time and there are no cars crossing through green lights
377	Get behind the school kids and it is a long, long wait
378	Back up traffic.
379	Long wait times and traffic backups on Lake Road.
380	Living in the Lacamas Summit development it can be difficult getting on to Everett when the high school
300	students are arriving for or departing from school.
381	what ever you do don't put in a round about they are dangerous I have seen first hand accidents on
361	those roundabouts
382	Long waits, hard to get out of Round Lake Parking Lot
	Long waits, flata to get out of Nouria Lake Farking Lot
383	Lack of cidowalk for cafe podectrian access. Hard to pull out of Lacamas Dark parking let beading court
	Lack of sidewalk for safe pedestrian access. Hard to pull out of Lacamas Park parking lot heading south
	due to long strings of traffic coming from the high school. Large back ups in the morning on Lake Road
	and in the afternoon on Everett due to kids trying to get to and from HS. Difficulty getting to the right
I	hand turn lane from Lake to Everett (southbound) due to too many cars wanting to turn left.

384	Getting to school and getting home from school it is very crowded.
385	When approaching from the west on Lake road I find the turn lane for going south often blocked by cars
	wanting to go south on Everette.
386	
	Not adequate enough to handle volume of traffic - long waits at light due to backups, congestion
387	
	I bike through the park and if you hit traffic it takes a long time to cross and go towards lake road
388	Traffic backed up all directions certain times of day
389	Long backups at peak time
390	No problems
391	Traffic backups on Lake Rd and along Everett north of the intersection. 7-9 a.m. and 2-4 p.m.
392	Blinking left turn signal is a great idea
393	Delays due to traffic volume and the light signal cycle.
394	I plan around peak traffic times to avoid congestion.
395	Unsafe for the growing population. Long wait times at lights.
396	congestion from school traffic
397	Traffic jam during school drop off/pick up
398	No issues
399	Too many speeders!
400	traffic backed up before and after school weekdays
401	Traffic and long lines at the light.
402	
	I am retired so it doesn't bother me to wait at the intersection "at this time". My concern is the lack of
	infrastructure in this area for the hundreds of existing homes and the hundreds more in the planning.
	No matter what is planned for the intersection, it will never solve the future problems that are
	inevitable, unless the matter of infrastructure is addressed. That said, I would be more in favor of the
	signalized intersection because the round about seems a bit large and confusing for the area and the
	signalized intersection appears to leave more of the tree canopy to the east. I would hate to lose the
	beautiful forest ambiance.
403	Long backups on Everett heading south and on Lake rd turning left onto Everett.
404	Long waits in traffic during certain parts of the day.
405	Long warts in traine during certain parts of the day.
103	Obviously it gets very backed up before and after school every day. Before I was a school bus driver I'd
	go all the way around the lake via ledbetter because that was still fast than dealing with the traffic
406	Traffic backup
407	Vehicles cutting the corner from Evertt onto Lake Road
408	Traffic is horrible before/after school, as well as during Summer months in morning and late
	afternoon/evenings
409	long delay from Lake to Everett north or southbound
410	heavy traffic, related to High school, Lake road and Everett
411	,
	Cars not entitled to go through the interdection on Everett coming from the North drive through the
	intersection against their red light when they see northbound cars are turning left on their green arrow.
412	Heavy traffic at times. Especially when everyone is heading to the high school
413	Long delays heading from lake to southbound on Everett due to long line of cars in line to turn left onto
	northbound everett.
414	Crowded, long lines
<u> </u>	

415	Congestion
416	long traffic queues eastbound and southbound into the intersection
417	traffic
418	Long waits during busy commute times.
419	
	Long waits for lights lots of traffic thanks to the schools and neighborhoods being put out here
420	Long wait time to get through light
421	At release time for CHS, I have frequently experienced extremely congested, slow traffic.
422	Hard to turn into produce store . Needs turn lane . Long line from lake road to 500
423	Back up of traffic during high school start and end
424	Long wait times during peak times
425	Crowded; long lines at light
426	the line up of traffic is horrible, and it is a dead stop. I have almost been in an accident because the
	traffic is stopped without any warning.
427	Congestion, poor access to & for parking in the area, delays
428	Traffic delays and congestion
429	Turning left/right on Everett Am/pm with school traffic
430	long lines turning south onto Everett from Lake Road eastbound
431	Major traffic back up at light
432	Many vehicles, long waits, difficulty getting into right lane to turn right, failure of vehicles to wait for
	pedestrians, risky left turning for bicyclists
433	Traffic at school travel times.
434	Lots of congestionespecially with school events and start/stop times of school
435	Traffic backed up when school is starting or ending
436	long lines at times
437	Terrible for pedestrians and bikes.
438	Mainly crossing as a pedestrian or bike rider. Going S. from the intersection on Everett there is not a
	good way. Traffic can be a little backed up as well.
439	Backups during busy times of the day
440	Traffic backs up all the way to CHS after school lets out. Traffic is backed up Lake Rd before school and
	during rush hours. I often use alternative routes which are longer, just to avoid long waits to get
	through the light.
441	Long wait times at the light when High School is about to start or end.
442	I have no issues with this intersection
443	
	When coming into Camas on Lake Rd. and trying to turn right there is a massive pile up because the
	right hand lane is blocked when more than 3 cars are in the left hand turning lane.
444	Hard for bikes and walkers to cross
445	S bound Everett gets very backed up - most of the traffic turns right onto Lake Road, but because the
	turn lane is so small, they must wait at the light with the rest of the south bound traffic. This is also an
	incredibly unsafe intersection for pedestrians, especially during the summer with high traffic flow and
	high pedestrian usage. Needs to be a better separate pedestrian path from round lake parking to
	lacamas lake parking.
446	Lane needed to make right turn from Everett onto Lake
447	Backed up on a regular basis in General, especially during CHS hours. Cannot turn right onto Everett
	from Lake Rd when congested.

448	Traffic backs up before and after school. The intersection also lacks sidewalks as a walker heads
	towards downtown Camas on 500, which can be dangerous for a walker.
449	Left turners cutting corners, all running red lights (true of all intersections not just this one)
450	
	excessively long lines of traffic, especially when the schools get out. Lots of potholes everywhere!
451	Traffic can be backed up almost to the Lake Point neighborhood at times on Lake Rd. Causes you to be
	late to events.
452	It gets extremely backed up during the schoo commute—both to and from.
453	extensive congestion in morning and afternoon
454	Long lines. Long waits. Speeding on lake road.
455	Traffic back up. School related.
456	There are only issues during school-related events (when school is starting or getting out, or big events
	held at CHS).
457	Alway backed up and difficult to get through while school is starting and over
458	Major delays during school start/stop times. I try to avoid making appointments that require travel thru
	this area (N shore is my only other option) during these times. Also the park parking lot does not serve
	its needs. Move it to Crown Road !!!
459	Complete congestion during high school pick up and drop off
460	Long waits, especially before and after school.
461	During High School Start/End times the traffic is horrible. Also during high summer the amount of
	people going to the lake increases. During rush hour there are also more cars coming from Lake Rd
	which can back up pretty good.
462	The turn lane is not long enough to hold all of the vehicles which creates a huge backup very quickly
	when traffic is heavy.
463	
	Traffic backups during mornings and late afternoons when driving on Lake Road headed toward Everett.
464	Clogged during HS drive times and big sporting events
465	Congestion
466	Currently the intersection is fairly safe for all users. Traffic does seem to back up more than what I'd
	expect for a town of our size.
467	That the road is always being worked on.
468	Too much traffic and speed!
469	Traffic bottleneck and biking walking between heritage and lacamas park
470	Traffic backs up. Trails need connections so pedestrians don't walk on road
471	Nothing is wide enough for capacity needed.
472	Taking Left from the Round Lake parking lot can be tricky with intersection and cars/traffic heading
470	south on Everett.
473	Tremendous backup particularly at times when school is starting/ending
474	It gets super backed up with students before school and after.
475	Traffic buildup, needs better pedestrian access.
476	Grid lock during school hours. Feels unsafe to use exit park.
477	Long wait time to get to CHS in the morning!! Long wait!!
478	Only feel effected at high traffic times. A bike path or sidewalk seems would be helpful
479	Bottle neck at stop light. Long waits to turn North from lake road onto Everett
480	Lake Boad should be widehed so you can take a right ente Everett when waiting at the light
404	Lake Road should be widened so you can take a right onto Everett when waiting at the light.
481	General congestion

482	Heavy congestion
483	Long delays and back-ups to the Heritage Trail parking lot or north half way to the light at the high
.00	school, people running red lights
484	Depending on time of day, it can be pretty bad.
485	Long delays mornings and evening
486	backup of traffic up Lake and up Everett during peak hours
487	None really
488	Very busy. Risk for accidents due to speed, visibility, and need to cross traffic to turn on to Lake from
	Everett.
489	
	Ridiculously long backups during school start and release times or special events at the high school.
490	Long traffic lines, waiting for light to change
491	Excessive delays when high school lets out
492	Too much traffic. And when people crossing no traffic is moving. Lake road needs a lane to turn right
	but the left turn lands is backed up. Student drivers.
493	Too much backup on to Lake Road & Everett during peak hours
494	Long waits.
495	Traffic congestion
496	Traffic back ups;
497	Hard to turn right when heavy traffic going left from Lake onto Everett
498	Congestion
499	I did not feel safe walking along the street where there was no sidewalk. The cars speed around the
	turns.
500	Traffic backed up halfway around Lake Rd during certain times and very limited parking by Round Lake.
	Hard to pull out left from the first neighborhood across from the auto repair shop when there's traffic.
	No safe walkways!
501	
	Long wait to get thru intersection, usually due to chs traffic, occasionally due to work commuters
502	Congestion, tight spacing
503	Long delays during commutes and other times
504	I grew up in camas and cannot think of a time I've ever had an issue there.
505	In the mornings and evenings the traffic backs up onto Lake Road and it can rake up to 20 min to get
	thru the light.
506	Back up down lake road because of the turn lanes at the light
507	NO ROUNDABOUT Please!
508	The traffic is really backed up do to the high school traffic
509	Extended traffic & safety
510	Congestion
511	To ffee the short of the soul seed of the seed of the soul seed of the sou
	Traffic will get backed-up frequently as students, teachers and parents travel to Camas High school in
F43	the AM, during lunch break and again when school lets-out in the late afternoon
512	Congestion
513	long backups at the light, used get stuck twing to take my daughter to the high selectional back
F14	long backups at the light, used get stuck trying to take my daughter to the high school and back.
514	Extreme congestion, walking light that lasts too long, left and right turns onto Everett are often blocked
	by an excess of cars turning the opposite direction

515	Long waits during school hours or after 5:00 pm. It can also get super busy with pedestrians during the
	summer months.
516	Long backups
517	There aren't enough lanes to handle the amount of cars using the road on a daily basis.
518	
	Difficulty crossing as a pedestrian in a safe manner. Long back ups when I drive during rush hour
519	Congestion during summer
520	Traffic backup at light
521	When sitting at the light to turn left onto Everett, vehicles making a left turn onto Lake Rd. try to cut the
	corner too close and nearly hitting the front end of the first car. If there were a way to change the lines
	or something to have those drivers take the time to make a wider turn and not cut the corner would be
522	good.
	traffic stopped not moving
523	Lots of traffic during hs start and end time
524 525	Long, long lines
525	Really busy certain times of the day. So I plan my activity around that. Same as going to Portland.
526	I avoid the intersection during peak school hours or during high school events, but I would otherwise
320	use the intersection 7-14 x /week if the traffic flow was more predictable. Also not a safe bike/ped
	corridor
527	Huge backups at start and end of school. Almost impossible at times to make left turn from side streets
327	- 21st during those times
528	Red light runners; congestion; bicyclists; pedestrians
529	Back up during school starts & ends
530	With one lane in both directions, the line of cars backs up past 43rd during key travel hours
531	traffic lights cause a gridlock back up at certain times
532	Traffic is horrible at several times of the day. With Camas High School and all the new houses that
	have/are going in there was not enough planning done ahead of time.
533	Occasional backups
534	excessive wait time during school start and end times.
535	
	Long backup in the morning and at pm rush hour. Pedestrians, bikers, runners are becoming a hazard
	when they don't use the cross walk. Pedestrian crosswalk causes more delays to traffic because all
	directions are stopped. Need bridge for pedetrians and bike lanes.
536	Backed up traffic
537	Everyday before and after school (Camas High School) this intersection becomes extremely congested
	all the way down Lake road.
538	
	Too blind. People speed to make the light and coming from the lodge shoot through the curve turning
	left with reckless disregard. Also the second road you can turn off (38th) isn't a smooth turn off and can
	cause traffic backup. Speeding cars on your tail force a tight right turn, coverings into an oncoming car
	inching forward because the street is obstructed by power pole or parked cars for those turning left off
F20	38th onto Everett/500 so they inch forward which creates more collision risk
539	Likely consistent with other responses I've experienced traffic congestion, long back-up on Lake and
F 40	Everett St. This results in aggressive driving styles and frustrated people.
540	Not easy for pedestrian use. Causes lots of jaywalking
541	At odd times of day, traffic back-ups occur

542	Lights not working. Back up during after school hours
543	High traffic
544	Long wait times
545	Long wait times at the light
546	Major congestion's at certain times of the day
547	Works fine, can't imagine why you would want to waste taxpayer dollars on an intersection that works
	fine when you have SO many other issues that truly need attention and are currently exposing citizens
	to danger
548	Very long wait along Lake Road at high traffic times. When running through that intersection, drivers
	often don't pay close attention when turning right onto Lake Rd and will nearly hit me or running group
	members.
549	Only one lane trying to turn left onto another single lane road, backs up cars almost to Sierra. Makes
	kids late to school.
550	Traffic backs up with school hours
551	at peak hours (school pick up/drop off hours) the traffic gets so backed up also the wild life have been
	startling at times
552	Poor timing of lights and back up of traffic during peak commuting hours
553	
	no turn lane traveling south when turning right on Lake right from Everett/500. Also back up of cars on
	Lake Rd prevents those turning right onto Everett/500 from doing so when light is red.
554	Large backups and unsafe conditions for pedestrians.
555	My biggest concern is past the intersection towards the bridge- people are parked everywhere and
	jutting out- a lot of chaos.
556	Turing to take many come to manage and at the district of della been about a bellevaing with all the bigh select
	Trying to take my son to preschool at the district of daily has been challenging with all the high school
	traffic. Lake is completely backed up and trying to cross Everett is just a feat in itself.
557 558	Traffic that backs up in all directions. The road is not wide enough, traffic is heavy at times of the day and backs all the way up Lake Road,
336	and I don't think it's safe for walkers were runners on the side of the road.
559	and ruon t think it's safe for warkers were runners on the side of the road.
339	LONG LINES, no turn lanes to turn right from Everett onto lake road or any for that matter. No bike
	lanes - very narrow roads, especially when backed up, very unsafe. LONG LINES affecting travel time.
560	CONGESTION!!! Also on warmer days the increased number of pedestrians walking along the
	road/crossing where there is not a designated cross-walk
561	Long wait lines when the high school lets out. I do not like round abouts
562	A very long back up during school times and school events.
563	horrible back up just trying to drive from one school to another at specific hours. This forces me to
	drive through neighborhoods, the long way around
564	Long wait times.
565	Long wait times when nearby schools are starting the day or ending their day. Occasionally, someone
	will run a red light.
566	Long lines at the stop light.
567	Long wait times
568	Huge line-up of traffic on Lake Road
569	Signal transition is long. Lack of sidewalks is dangerous. Traffic congestion is horrible.
570	Long waits in the mornings and evenings
3,0	

571	
	Huge back ups during commute times (am school start, afternoon release, and evening work commute)
572	Large backups coming down to the intersection from lake rd.
573	Too much traffic.
574	Intersection gets backed up during rush and school transit times.
575	Traffic gets really backed up in an attempt to get to the high school.
576	
	I really haven't experienced many troubles. On my way home from work, sometimes I have to wait for a
	light cycle, but other than that, I usually don't experience any slow downs or problems.
577	School time is a bitch
578	Major back up
579	Traffic and long wait times at light
580	Not enough space to right turn when traveling south on Everett and turning onto lake. The crosswalk
	signal supercedes turning left on Everett from lake, causing significant delays on lake. Signalling seems
	to be slow and no responsive to increased traffic.
581	Long waits. Unsafe. The state should help pay for any improvements
582	takes too long coming down the hill on Lake and also turning onto Everett from any side streets during
	peak times can be sketchy
583	
	Long lines if traffic during school and work commutes. Hazardous responses for emergency vehicles
584	Long wait times coming off of Lake and turning left
585	When I walk or jog , I do not feel safe since there is no sidewalk
586	Waiting for walkers/bikes to cross street before I can turn. The right turn onto Lake coming south on
	Everett is a bit sharp.
587	Traffic delays and backup
588	Traffic can be high in that area.
589	Long wait times through the intersection. Cars backed up forever
590	long lines on lake road to get through the lights
591	Long waits, backups.
592	No sidewalk, no lanes to turn right
	awful back up at peak times
594	Long waits in the morning
595	big traffic back up and delays
596	Bottleneck during high school release times and in the evening when Lake Road backs up.
597	A lot of drivers aren't looking for pedestrians in the crosswalks before making a turn. I've seen quite a
	few bicyclists and pedestrians nearly get hit, as well as the risk of a car collision from sudden stops.
598	It gets very backed up before and after school between the two stop lights.
599	CHS events often result in back-ups all the way up to Sierra!
600	well on my way back home from work leaving the high school the congestion is so bad most of the
500	drivers are making a right turn. road is to small for how busy it gets. it should be three or four lanes at
	least
601	People not paying attention
602	backed up traffic
603	Huge line of cars backed up on lake road waiting for light, if you want to turn right you have to wait for
	the cars turning left to get green light because of backup
604	Long delays. Traffic really accumulates during specific periods of the day.
	, , , , , , , , , , , , , , , , , , , ,

605	Lack of pedestrian facilities
606	Very long walk signal for joggers/bikes
607	long line of cars waiting for light to turn green on 500
608	Lack of continuous sidewalk connecting parks and trails
609	Long waits when the high school has gotten out.
610	Long waits
611	Heavily congested. Long wait times. Unsafe pedestrian crossing.
612	busy around high school beginning/end times
613	Extreme traffic back up when headed south
614	Bad traffic at certain times of the day
615	Pedestrian crossings and cars not watching for those pedestrians
616	
	The traffic light backs up during times when people are trying to get to the h.s. or leaving the H.s. AM
	and PM. Also, I work for the school district and cannot get to after school meetings on time if I go that
	route. I teach at Fox and if I need to be at the H.S. or ZAC- I don't have enough timeIf I get out at 2:40
	and trying to make a 3:00 meeting-it is stressful. Problems I've had specifically are turning left off Lake
	Road and going south on Everett. Wholly inadequate infrastructure. Trying to get into Lakeside, houses,
	other businesses or the park during high traffic times is too hard and unsafe. No sidewalks or walking
	paths along that road. Are their bike paths?
617	Traffic congestion/delays.
618	Delays at the intersection due to cars heading straight instead of turning. Lights do not change due to
	me being on a bicycle and unable to trigger the system to change.
619	Congested.
620	Heavy traffic with wait lines
621	Long back ups. Getting stuck behind cars turning left from lake to Everett when I go right.
622	
	- long delays due to being a bottleneck in and out of residential subdivisions, especially around school
	bus time or road construction Inadequate/unsafe bicycle/pedestrians lane/sidewalk Short distance
	visibility of the traffic light when going north Limited left turn lane merging from Lake rd.
623	Backs up too far
-	Slow traffic
625	Long wait times getting through the light
626	Congestion on Lake
627	Long back ups on Lake Road approaching the intersection. Inability to turn right when there a long back
	lups
628	Large volumes of traffic related to school start and stop times
629	It only has back up issues when school is let it. I think it would be more helpful to have more ways
	leaving the school.
630	
	Red arrow. I grew up learning it's illegal to go on a red arrow but everyone treats it as a yield.
631	Long wait at light to get to CHS
632	Huge backups
633	Long back up can't turn right at light
634	Horrible traffic
635	Terribly backed up during school start/end times and summer time (recreation at or by the lake seems
	to back traffic up too)
636	Bikers and traffic in the morning because of schools

637	Delays on Lake Road traveling west. Too long of ped crossing timers.
638	Traffic backed up lake road
639	
	During summer, the Lake would become very crowded with cars parking on both sides of Everett which
	can cause heavy traffic at times and also poses danger to both pedestrians and drivers as well.
640	No right turn lane onto Lake Road (headed south). Backs up terribly when high school let's out. Need
	free righturn and merge lane when turning right from Lake Road to Everett.
641	Terrible bike routes here, broken glass, terrible bike lanes. Need bike path along hwy 14 to vancouver. I
	bike to E vanc businesses instead as Camas bike access is terrible
642	
	Long backup to turn left onto Everett from Lake. Right turn lane gets blocked by all the left turn traffic.
643	Long lines and delays
644	Heavy Traffic and slow flow due to business of pedestrians and cars
645	Long waits during peak travel time
646	Traffic, distracted bikers, distracted drivers, long waits.
647	Waiting to turn left onto 500 (from lacamas lane). And waiting to turn right onto lacamas lane (from
	500)
648	It takes a long time to get through the light when the high school is starting or ending. There are no
	sidewalks. The area is generally unsafe for pedestrians and children, which is sad since it is on the way
	to school, parks and recreation areas. Connecting round lake, fallen leaf lake, and Lacamas Lake area
	trails would be amazing! A side walk or boardwalk along the south top of Lacamas Lake would be
	amazing.
649	Safety when walking/running/biking by myself and with children.
650	Really long wait times after camas high school releases for the day
651	I can't turn right going into Everett when I am like the 4th car back. I can't go around due to the cars
	blocking. There should be a longer turn lane!
652	Traffic congestion, not safe for pedestrians nor bicyclists
653	Traffics backed up in the morning before school or after schook
654	Traffic backed up in every direction several times a day. Also, unsafe for pedestrians.
655	Increased backup during high school commute time.
656	It backs up a lot during High School release times. Left turn off Lake backs up and those who are turning
	right can't get through which causes more back up of traffic.
657	Long wait times to clear the traffic on Lake Rd.
658	Waiting at a red in the middle of the night with no one around
659	Regularly congested
660	Decreasing LOS during rush hour
661	Traffic backed up at the light but creating traffic jams as traffic continues to build at the light (during
	school year)
662	Morning and afternoonschool traffic
663	The intersection light needs to be improved for the flow of traffic coming and going during school
	release hours.
664	Traffic
665	15 minute wait, witnessed several fender benders, always fearful that someone is going to come flying
	around the corner and rear end me while stuck in traffic
666	The lights are set on timers instead of sensors.

667	
	Coming down Lake in the morning or after work in the evenings, the left turn lane is small with little
	room for those individuals turning right so the entire lane can back up, sometimes to Sierra. If the right
	turn lane was expanded to past the community center, the flow of traffic would be greatly increased.
668	Traffic on Lake Road
669	Pedestrians and parking in the area during the summer months. Safety is a concern for crossing &
	visibility. Backup during school starting and ending.
670	There is not a good time of day when this intersection is not busy
671	
	Long lines and no way to take a right onto lake with our waiting in the line. Ancillary streets stuck for 10
	minutes (minimum) trying to merge into Everett. Lights are way too random in how long they stay on
	green /yello/red. Very dangerous for pedestrians and bikers, with no real shoulder.
672	Traffic back ups. High school and commute times.
673	Traffic does back up during bus pick up and drop off times. The increase in traffic from parent drop off
	also contributes to the congestion.
674	
	traffic backs up in evenings due to turning lanes being too short, not enough room to get into lane
675	Extreme backup during school transportation hours! It was also a mess when they were doing
	construction on the bridge this summer!
676	Backed up traffic on school days when CHS begins/ends the day
677	Turning the right curve, on-coming traffic, icy conditions, long lines of traffic
678	Long Que lengths caused by left turn blocking the right turn lane.
679	
	Congestion. Cars parked on the sides of the road during the summer months. Back-ups due to traffic.
680	Congestion between 7am-9am and 3pm-6pm
681	Lights are not synced to deal with traffic at busy times of day.
682	Long wait to turn off lake road. Safety for runners, not a lot of space for bikers either
683	Long waits, no to little shoulder
684	Long back ups when the high school lets out.
685	No sidewalk
686	
	There almost always seems to be a backup of cars, and unsafe conditions when trying to turn.
687	Lots of traffic when trying to turn right into Everett off of lake.
688	Delayed light to turn north when pedestrians are using
689	Long backs ups of vehicles, especially after the high school lets out in the afternoon.
690	Crowded
691	Obviously the back up during am/pm school times.
692	Traffic back up
693	Traffic congestion
694	Wait times are excessive at certain times of day. Pedestrian crossings with the light take a long time.
	People parking on the roads during certain months is also very problematic.
695	Lots of traffic especially during school opening/ closing.
696	Traffic backed up all the way up Lake Road at Rush Hour. Slow downs on Everett during school drop off
	time.
697	long wait to turn. narrow intersection.

698	During peak rush hours it can be backed way up all the way to top of lake road by UL/Leadbetter
	intersection area. The lanes are too narrow and right turn lane from Lake Road to Everett is so short it
	is ineffective as is. Cant get around people waiting to turn left most of the time. Just a bottleneck with
	single lanes.
699	No side walks!!!!
700	Excessive traffic, especially during CHS start/end time.
701	Long back ups
702	The lines backing all the way up Lake Road.
703	backup at Lake Road around beginning and end of CHS school day
704	Traffic backed up to lacamas shores
705	Congestion with prolonged waits
706	Backed up traffic all the way up the hill
707	Traffic back up at school dismissal time.
708	Light changes take a while to change
709	Very congested during CHS school opening and closing. Too many kids being driven or driving to school
	when they should take buses!
710	Long wait times at the light
711	Long lines of traffic. Lots of pedestrians, especially in summer, walking paths and crosswalks dont seem
	the safest
712	
	Severe backups during school hours due to the lack of a right turn lane from SB Everett onto WB Lake
	Rd. At least half of the traffic at this intersection is making a right-hand turn onto Lake Rd. Enabling this
	access would greatly improve traffic flow through that intersection and reduce the current backlog of
	traffic that is currently experienced every day during the work/school week. Additionally, there is poor
	pedestrian interface if you're running from the trails around Round Lake to the Heritage Trail. There is
	also poor accessibility for those using mobility-enhancing devices such as walkers or wheelchairs.
713	Currently during peak times related to CHS start/stop times or events, it may take 4 or more light cycles
	to get through the intersection.
714	Long backup certain times
715	Long wait at intersection. Speeding and driversbot paying attention to pedestrians.
716	Congestion coming down Lake road toward Everett. I've seen it back up past Lacamas park. Also, the
	right arrow on Lake Road should turn green when the left arrow on Everett turns green to turn onto
	Lake road.
717	Long back ups. Additional lane or right hand turn lane going from Everett to Lake would be helpful a lot
	of congestion w recreation visitors and parking for the lake and parks.
718	Very long lines of cars stuck at the light. Both from lake road and Everett from the high school and
	Livingston mountain area.
719	
	Gets very backed up in the mornings and evenings - no real turn lane which backs up the rest of traffic
720	Long waits during school time.
721	I live on 35th and often have to take a left onto Everett, which can take a while, depending on the time
	of day.
722	A lot of wait time at the lights because of the amount of traffic at certain times of the day
723	Congested and long line waiting for light on Lake Road, especially morning school time.
724	
	Heavy congestion, especially heading eastbound not being able to see stopped traffic around the bend
725	Backup of traffic.

726	Getting backed up on Lake road, traveling east towards Everett
727	Traffic congestion in the summer afternoons, seems to be correlated to number of pedestrians using
	the crosswalk.
728	Long wait times at the light.
729	Always backed up especially before and after school.
730	Traffic jam
731	Driving down NE Lake road towards the intersection and trying to make a left onto NE Everett. It's
	usually backed up from pedestrian traffic.
732	Same as everyone else - long backups during high traffic periods.
733	Waiting through several lights.
734	Soul-crushing backups
735	
	Drivers rolling across the crosswalk against red lights endangering pedestrians (me and my son).
736	Extremely congested
737	Turning north onto Everett from Lake - long backups
738	I've only noticed an issue w/the intersection when CHS dismisses
739	Heavy traffic during school transitions
740	Wait time but I'm ok with waiting.
741	
	Long waits at Everett to Lake Rd when Camas High lets out and long lines from Lake to Camas High in
	the morning. That can make my son late for school on bad mornings. We have planned accordingly, and
	often go left out of CHS to Crown and down to 3rd just to get around it altogether. It's just such a
	difficult spot with busses and parents and students all pouring in and out through here.
742	No round about
743	Can't handle traffic and bad light setup.
744	Long wait times.
745	Severe traffic jams, family member had a car accident, being cut off (almost hit) by a car when I was
	walking.
746	Can't turn right because of backup of drivers turning left on Everett. Need a wider area to pass left
	turning cars
	Major back ups during peak hours
748	Heavy traffic before school hours and after school hours. Also heavy traffic during peak travel hours 3-
	5ish
749	Backs up terribly on Lake Road at start time and other activity times at the high school.
750	Long waits and backups
751	Usually on Lake, if taken during certain times, long lines. Avoided by going the other route via Forest
	Home to Everett. For to and from CHS.
752	I haven't experienced any issues
753	There is so much traffic there are times we can't leave our house its so bad. We are worried with a
	roundabout it will make it so there is even less of a break. I have see people on more the on occasion
	trying so hard to not let people out of there driveways they ended up rear ending the car in front of
	them. My kid wait for the bus on this road and people run the buses stop sign because the traffic is
	already so bad. I could go on all day with everything wrong with the road, traffic, unsafe, no side walks
	etc.
754	Extensive traffic, unsafe pedestrian crossing
755	To much traffic back up. Very unsafe interaction for cyclists and pedestrians.

756	The traffic can back up very quickly if a couple cars are waiting to turn left onto lake road and there isn't
	no space to turn right.
757	Congestion, wait time at light, speeding.
758	Flashing yellow left turn signal can be dangerous. Traffic backs up really far on lake. There's not a clear
	area for pedestrians. Parking gets jacked during summer.
759	Afternoon heavy traffic from the high school backed up at the traffic signal.
760	Not safe to cross. Long lines of traffic.
761	
	The left turning lane (from Lake Rd) chokes up the right turn possibility. Lane is too short. Also, not
	everybody knows they can turn right at red light. Especially when cars are turning left from Everett Rd
	and ongoing traffic is stopped (there is no green arrow turn light) Sensors are not sensing properly the
	amount of cars waiting at lights, therefore they don't adjust to traffic flow.
762	Congestion
763	Traffic back up
764	Traffic backed up onto Lake Roadand on Everett too
765	Long traffic lines during morning and evening peak commute times. Hard to cross the road when
	walking between lakes.
766	Long waits travelling N/S, poor visibility to south bound traffic from Lake Rd, very scary from a
	pedestrian and bicyclist perspective, insufficient bike lane and sidewalk, and on summer days the foot
	traffic of people recreating can cause dangerous traffic conditions.
767	Long wait/light times usually during peak school hours
768	Heavy traffic before/after school and at 5 pm
769	Long long LONG lines during school release/ drop off/ pickup.
770	Traffic backs up at the light, sometimes to astonishing distances especially on Lake Road and
	southbound Everett.
771	Long wait during inclement weather; Scary to walk from Lacamas Lake to the parkonly did it once and
	would avoid it in the future;
772	Now house to entring a giral of the day consists, and all the day and times health and and times health a surfice
772	Very busy at certain periods of the day, especially around school start and end times, backing up traffic.
773	Long wait times depending on school schedule Extreme traffic
775	The backups at the lights
776	Backed up at the light Backed up traffic down Lake Rd
777	·
778 779	Long wait times Traffic backed up
780	Back up of traffic at peak hours
781	long wait times at the light during high traffic hours
782	delays during High School start times
783	No sidewalks
784	The lines heading east are way too long.
785	Long delay to go downtown at given times of the day.
786	Back up and congestion
787	Very long lines, abundance of pedestrians wandering around on warm, sunny days.
788	traffic delays, can't turn left from the round lake parking lot
789	Drivers going too fast with pedestrians moving around. Drivers making u-turns looking for parking.
	Drivers running red lights. Cars backed up for miles.
	,

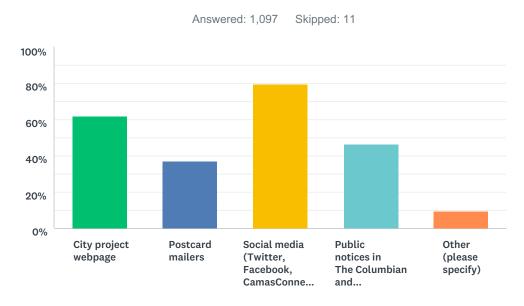
790	Summer traffic severely impacted by pedestrians on hot days. Traffic impact during start/end time for
	high school.
791	Wait time
	I avoid Everett in the morning and afternoon. The HS traffic is terrible. Overcrowded school makes for
	overcrowded streets.
793	No safe way to turn left on Everett while on a bicycle. Waiting to turn right on lake road going south on
	Everett because of backed up cars.
794	long back-up on Lake road, confusing yellow light arrow on Everett, poor space for biking and
	walking/running.
795	Lake Road backs up during morning for high school & also in the evening for everyone going home from
	work. Also, so people still don't understand the blinkimg yellow arrow.
796	Long backup and wait to get thru light before/after school start/release
797	Cannot turn south on Everett cuz high school traffic backs it up so much you can't get to the
	intersection.
798	People trying to cross street
799	Making safe left turns while on a bike.
800	Congestion
801	Sitting at traffic backed way up the road past the park.
802	traffic backed up
803	Traffic backs up
804	Traffic congestion
805	People not understanding how to use a yellow light and turn. People not moving all the way into their
	lane to allow those turning south onto Everett from Lake. And it would be great if the intersection was
	polluted with all the signs for community events.
806	Traffic can get backed up when school is let out and during afternoon commute times.
807	Traffic backups beyond 35th Ave make it very difficult to enter Everett from 35th.
808	Trouble in the summer when everyone is at the Lake. A long wait when the high school starts and gets
	out each day.
809	Very busy and backed up at times.
810	Backs up
811	No issues
812	From Lake Road to Everett - long wait times during peak hours. Dangerous for pedestrians
813	Cement Trucks, that should use other roads. Intersection gets busy at rush hour times, garbage trucks
	block traffic and cause further delay.
814	Certain times it backs up, making it difficult to make a left from 35th
815	Traffic delays due to volume.
816	Long waits especially around school time.
817	Traffic heavy at CHS open & close
818	There seems little space for pedestrians to cross safely.

Q6 Below are broad categories of criteria for reviewing the two concepts for intersection improvements (shown above). Please rate their importance to you from 1 (highest importance) to 5 (lowest importance). Rate as many criteria as you like from 1 to 5.

Answered: 1,108 Skipped: 0

	1	2	3	4	5	N/A	TOTAL	WEIGHTED AVERAGE
Reduce traffic congestion	59.04% 650	13.08% 144	8.45% 93	5.18% 57	13.90% 153	0.36%	1,101	2.01
	000	144	93	37	100	4	1,101	2.01
Improve traffic safety	47.89%	17.34%	14.22%	7.61%	12.39%	0.55%		
	522	189	155	83	135	6	1,090	2.19
Avoid impacts to the bridge north of the	16.23%	14.34%	28.49%	14.62%	22.17%	4.15%		
intersection	172	152	302	155	235	44	1,060	3.13
Minimize impacts to wetlands	25.88%	18.25%	19.74%	12.10%	22.25%	1.77%		
·	278	196	212	130	239	19	1,074	2.86
Minimize impacts to trees	26.97%	18.72%	19.28%	12.60%	20.76%	1.67%		
·	291	202	208	136	224	18	1,079	2.81
Minimize impacts to adjacent property	18.32%	15.79%	27.29%	15.70%	20.09%	2.80%		
	196	169	292	168	215	30	1,070	3.04
Accommodate pedestrian and bicycle access	34.62%	23.63%	18.04%	10.07%	12.91%	0.73%		
	378	258	197	110	141	8	1,092	2.43
Provide access to adjoining property	15.74%	16.87%	26.86%	16.12%	17.06%	7.35%		
	167	179	285	171	181	78	1,061	3.02
Provide a functional and aesthetic design	26.15%	22.56%	22.84%	12.43%	14.09%	1.93%		
•	284	245	248	135	153	21	1,086	2.65
Reasonable construction schedule (within 1 to 3	42.75%	20.87%	14.77%	8.03%	12.65%	0.92%		
years)	463	226	160	87	137	10	1,083	2.26
Maintain traffic flow during construction	54.04%	15.90%	11.12%	5.42%	13.14%	0.37%		
	588	173	121	59	143	4	1,088	2.07
Overall cost of the project	20.83%	19.17%	30.65%	13.24%	13.43%	2.69%		
	225	207	331	143	145	29	1,080	2.79

Q7 There will be many informational updates and participation opportunities during this project. What do you think are the best ways to keep everyone informed about these updates and opportunities? (Select all that apply.)



ANSWER CHOICES		
City project webpage	61.99%	680
Postcard mailers	36.92%	405
Social media (Twitter, Facebook, CamasConnect app)	79.31%	870
Public notices in The Columbian and Camas-Washougal Post-Record	46.67%	512
Other (please specify)	9.57%	105
Total Respondents: 1,097		

There \	will be many informational updates and participation opportunities during this project. What do
	nk are the best ways to keep everyone informed about these updates and opportunities?
-	please specify)
1	Signboards
2	Signs posted near that area.
3	Email
4	Next Door app
5	Signs at the intersection, directing people to the city project webpage, social media
6	Update notices in Prune Hill Next Door
7	The notification should say that the city is not planning on constructing a roundabout in this area
8	River Talk Weekly
9	mailed newsletters
10	NextDoor neighborhood emails
11	email updates
12	Links posted in next door camas
13	Instagram
14	Email distribution
15	Emails
16	Next Door
17	Email, NextDoor postings
18	Email group if you wish to join.
19	Signage at parks next to site; Round Lake & Lodge
20	The billboard posted at the intersection now is great!
21	Email
22	Neighborhood app
23	Signage
24	email distribution list - this worked well with the BPA project
25	
	Please use all available lines of communication so as many residents are informed as possible.
26	Email list
27	Send info to Camas High School for distribution to students/staff
28	Nextdoor
29	The school district could send out a message, as they have a list of high school students and families
	that will be impacted.
30	Project website that you share on social media
31	Email to interested parties
32	Automatic emailers
33	Email group for those that sign up and website
34	Websites such as this one (Livingston Mountain)
35	Opportunity to meet with decision makers
36	Nextdoor
37	Personal communication to all the residents who live in the area on what is going and what kind of
	impact it will have on their daily use of using the roads to go around from school, work and life in
	generaly.
38	Sending news through CHS to keep students informed, since the intersection impacts nearly all CHS
	students
39	Nextdoor app

40	National real constitution in the great transfer is a six or the latest transfer in the constitution of the constitution in the constitution of th
40	Notices/releases in the small weeklies ie rivertalk weekly, lacamas magazine. Also, signage at the
41	intersection as was put up for the public meeting
41	Signage at construction area Email
42	
43	Everything you can.
44	Nextdoor
45	Instagram. A quick update with a picture of the progress would be a nice reminder as the process continues
46	Email blasts
47	Postings on Camas Library bulletin board
48	News print
49	Email updates
50	Email
51	[This comment is included in the responses to Question 8] #8 Isn't letting me write a comment and is
	only accepting "no Comment" box check. My comment for #8 is that I like the roundabout solution as it
	will accommodate the growth that is already in action in our town and the traffic is only going to
	increase
52	an email listserve that we can sign up for to get periodic updates
53	No paper communication please. Digital only or public posting like city hall or the library.
54	NextDoor
55	Opt-in email
56	https://lacamasmagazine.com/
57	Further meetings
58	Email
59	Signage like current one at that location
60	emails
61	email option - residents can opt in if they'd like
62	Email
63	Sign at intersection
64	The sign that was installed on Everett could have a section that gets an updated when new meetings
	are scheduled.
65	Nextdoor app
66	Non-Camas social media - Nextdoor, Instagram - it is extremely important the City goes to the citizens
<u></u>	where they consume media. Don't make them only go to the city channels.
67	Nextdoor
68	email notice opt-in?
69	next door
70	Post signs in neighborhoods & main streets.
71	Updated meeting signage at intersection
72	next-door app
73	Email for those who opt in
74	NextDoor
75	Nextdoor NW
76	NextDoor
77	an email list where people can sign up with their email to receive updates

it's readable for pedestrians, not drivers) that updates progress. Maybe for drivers a large, roughly recognizable "thermometer" style progress bar signage that updates (I.e. 50% complete. Projected finish: July 2020 79 Smoke signals 80 Signage at intersection was great to let me know about the info meeting. 81 Through the School District like this as well 82 Camas High School 83 email list 84 email 85 Nextdoor app, which is how I saw this survey was available 86 Email 87 Opt-in e-mail list 88 Online Camas-based magazines. 89 Email 90 Email 91 Road signs 92 Text message notifications for bulk groups. Similar to the schools process for notifications. 93 In person updates at town meetings 94 Public Alerts 95 EMAIL!! Continuing to update the sign currently placed at that intersection with the next steps so that the public can know when to check in. 96 Text 97 Email updates? 98 Email (people can subscribe) 99 Signs at the intersection 100 Email 101 Public meetings or hearings with project managers. Signs hung up around town (Crown Park, Forest Home Park, the Everett/Lake Rd Intersection email list Note - this survey was hard to find. It is not linked on the project page.	78	Dedicated Nextdoor posts on inner community and detailed signage by the road (In a safe place where
finish: July 2020 79 Smoke signals 80 Signage at intersection was great to let me know about the info meeting. 81 Through the School District like this as well 82 Camas High School 83 email list 84 email 85 Nextdoor app, which is how I saw this survey was available 86 Email 87 Opt-in e-mail list 88 Online Camas-based magazines. 89 Email 90 Email 91 Road signs 92 Text message notifications for bulk groups. Similar to the schools process for notifications. 93 In person updates at town meetings 94 Public Alerts 95 EMAIL!! Continuing to update the sign currently placed at that intersection with the next steps so that the public can know when to check in. 96 Text 97 Email updates? 98 Email (people can subscribe) 99 Signs at the intersection 100 Email 101 Public meetings or hearings with project managers. 102 Signs hung up around town (Crown Park, Forest Home Park, the Everett/Lake Rd Intersection 103 email list 104 Note - this survey was hard to find. It is not linked on the project page.		it's readable for pedestrians, not drivers) that updates progress. Maybe for drivers a large, roughly
Signage at intersection was great to let me know about the info meeting. Signage at intersection was great to let me know about the info meeting. Through the School District like this as well Camas High School mail list kemail Kemail Kemail Camas High School Remail Kemail Kemail Copt-in e-mail list Copt-in e-mail list Comas-based magazines. Famail Famail (people can know when to check in. Famail (people can subscribe) Famail (people can subscribe) Famail Famail		recognizable "thermometer" style progress bar signage that updates (I.e. 50% complete. Projected
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82 Camas High School 83 email list 84 email 85 Nextdoor app, which is how I saw this survey was available 86 Email 87 Opt-in e-mail list 80 Online Camas-based magazines. 89 Email 90 Email 91 Road signs 92 Text message notifications for bulk groups. Similar to the schools process for notifications. 93 In person updates at town meetings 94 Public Alerts 95 EMAIL!! Continuing to update the sign currently placed at that intersection with the next steps so that the public can know when to check in. 96 Text 97 Email updates? 98 Email (people can subscribe) 99 Signs at the intersection 100 Email 101 Public meetings or hearings with project managers. 102 Signs hung up around town (Crown Park, Forest Home Park, the Everett/Lake Rd Intersection 103 email list 104 Note - this survey was hard to find. It is not linked on the project page.	80	Signage at intersection was great to let me know about the info meeting.
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 103 email list 104 Note - this survey was hard to find. It is not linked on the project page. 	101	Public meetings or hearings with project managers.
Note - this survey was hard to find. It is not linked on the project page.	102	Signs hung up around town (Crown Park, Forest Home Park, the Everett/Lake Rd Intersection
, , , , ,	103	email list
105 email list for those expressing interest	104	Note - this survey was hard to find. It is not linked on the project page.
	105	email list for those expressing interest

Q8 Is there anything else you would like to add?

329 responses

Is ther	e anything else you would like to add?
	a comment:
1	I drive from Lacamas Summit past this intersection to tuen left to shop at Camas Produce, with this
	design please provide the local residents like me a Left Turn lane to make a safe turn in this growing
	city
2	I Drive this intersection daily for school and shopping at Camas Produce in modernizing the change
	why is there not a Turn lane for local residents to make Left Turn at Camas Produce, a must needed
	feature.
3	I drive from Lakeridge to Camas Produce and find the left turn from intersection difficult, left turn
	lane must be in this design for long term safety
4	
	I drive down to the intersection from Lakeshore to go shop at Camas Produce, why does the design
	not include a Left Turn lane to help local shoppers? Left Turn lane from Everett to Camas Produce is a
	good safety feature and I do not see it on your drawings, That is very bad !!!
5	
	My issue with Round Abouts in Washington, drivers here don't seem to know to signal they are
	exiting. In the particular location, in the mornings when school is im session, Southbound Everette
	from North competes with North from Lake. Not sure if a Roundabout will achieve the goal.
6	Maybe an elevated footbridge for pedestrian traffic crossing Everett
7	The first and closed roots regarded and the first state of cooling and closed to
'	I drive past the intersecction twice a day and try to make a left turn to Cup of Joy for coffee if there is
	traffic behind me it honks so a left turn setup will be less invasive and safer to traffic
8	I come down Lake RD on my way home to shop at Camas Produce and making left turn with traffic
	following me is not comfortable, a left turn like safeway has in front of the building dept of the city
	hall will be a great addition to this plan
9	I live, shop and work in Camas and commute to intersection everyday 3 times a day, turning left to
	get coffee at cup of joy should be made easier with a middle left turn lane
10	I shop at camas produce and making a left turn during with traffic behind me makes me me nervous,
	a left turn of some kind would be appreciated Thank you
11	
	LEFT TURN LANE for turning into CAMAS PRODUCE SHOULD BE A MUST HAVE IMPROVEMENT GOAL
12	I live close to the high school and drive to and past Camas Produce daily, a middle left turn lane will
	be a good improvement in that area to help local shoppers
13	I travel south to shop at Camas Produce, a left turn island is needed for vehicle safety
14	They need to account for present amount of traffic as well as future amounts of traffic and provide
	pedestrian access. Parking should be limited to designated parking lots and not on the side of the
	roads. They need to be concious of the people who live down the streets off of Everett near round
	lake.
1 -	
15	please make sure there is a way to get into the Camas Produce store and the Seafood food cart! Left
	turn in without holding up through traffic would be great. Need to be able to get in, and right turn
	back out to go through intersection/roundabout (roundabout favored)
16	Worried about ped/bike conflict with a round about intersection.
17	Appreciate the opportunity to review and have some input. Great job!
18	safety first.
19	<u>'</u>
	Do a roundabout! Also make lanes wide enough for bicycles to be comfortable. The ride the streets .
	20 a roundabout: Also make lanes wide enough for bicycles to be comfortable. The flue tile streets.

20	The signal lane round about on Brady east of 192nd is too small so it unnecessarily slow traffic. All
20	
	European roundabouts are two lanes so traffic can move in and out of the circle without stopping.
	The bridge on Everette needs to be as many lanes as the intersection or that bottleneck will negate
	everything. Protect the size of the parking lot for Round Lake. Protect camas produce so they can stay
	in business during the construction and afterwords as they are very important to the health of our
	community.
21	
21	way probably pand a wider bridge for signalized versions, be sure raundabout sireumference is much
	you probably need a wider bridge for signalized versions; be sure roundabout circumference is much
	wider than one on Brady and be SURE the distance between Everette thru entry southbound and
	Lake Rd entry is as large as possible or you will be exchanging one problem for anotherEuropean
	roundabouts are mostly two lanes on a wider circlethis keeps traffic moving
22	Do a roundabout! It makes the most sense. Keep traffic moving. And make it bigger to anticipate
	growth.
23	Is this going to be like the pool survey? You ask our opinions and then don't chose either option that
	was presented?
24	Split start & end school schedule to reduce high impact
25	Spirit Start at and some of some and to reduce man impact
23	Diago add a congrate turn lane (cafety reasons) for Camas Braduse. Diago add a congrate
	Please add a separate turn lane (safety reasons) for Camas Produce. Please also add a separate
	sidewalk along Everett from NE 22nd Ave to/from Lacamas Park. People walk/run along the main
	road which is such a huge risk for getting hit by a car - this should've been done eons ago.
26	Looking forward to the improvements.
27	Roundabouts are not difficult to navigate with a little experience and common sense.
28	
	It seems like the new round-about entering Camas is working well because it is a larger size.
	Sometimes the roundabouts that are smaller get too tight and they are awkward to navigate.
29	general desired and the second
	A round about will disrupt the area greatly. I travel to work. And while at work travel through in a
	1
	ready mix concrete truck. It will be very difficult to head north or go back to plant via lake road in the
	roundabout the trucks do not turn well. And it will change the image of camas. Its change drastically
	already that i am considering moving away also due to political climate. I also travel to safe fire and
	walmart /costco through the area. I have seem mild congestion during certain times. A roundabout is
	not necessary and will increase congestion.
30	My concern with roundabouts is the great amunt of attention a driver must give to other incoming
	traffic so as not to assume they are planning to exit at a given location. At the current new
	roundabout at HWY 14 I've had many close calls because there is no way to know a vehicle is
	· · · · · · · · · · · · · · · · · · ·
	continuing around the roundabout rather than exiting where I expect them to. I always have to come
	to a complete stop to make sure before proceeding. ALso I would highly encourage an overpass or
	other option for foot traffic so they do not have to cross the busy road. If you put up a crosswalk with
	alight it also stops traffic
31	Preserve as many large trees as possible. Perhaps add an additional bridge across the slough from the
	new bike path adjacent to Lacamas Park.
32	
	I don't use the intersection during busy hours because of the backup. Would be more convenient for
	me if I could. I don't shop at Camas Produce anymore because of the timing.
33	I have doubts about either alternative. I know roundabouts supposed to be there best, but with
	Incompar to number traffic from the highschool. Lenvision times when the traffic from lake will not be
	bumper to bumper traffic from the highschool, I envision times when the traffic from lake will not be able to get into the circle for some time

34	I work at Cup of Joy and turning Left is difficult (coming from intersection) with morning traffic on my
	tail, and see and hear my customers complain about difficulty making left turn, please give us a teft
	turn lane
35	Provide safe access to Camas Produce with this design change
36	
	A Traffic Circle would be confusing and cause more congestion than the current levels, as well as
	make it more difficult for pedestrians to cross Everett. The intersection really is only congested 2-3
	times a day (morning/evening commutes and when schools begin/end), the rest of the time the
	intersection is lightly used. The current traffic signal works fine. What I would like to see are
	sidewalks and increased lighting along Everett, as well as a light at the intersection of NE 38th Ave
	and NE Everett (it is very hard to see the 38th Ave road sign from Everett).
37	Close to intersection is a wonderful produce store my hope with new design would be to provide
	access for shoppers like me
38	Allow Mor time for the survey.
39	As a business owner (Camas Produce) I was not notified.
40	It would be great if traffic could move thru there during construction as there isn't really another way
	thru camas but the priority should be on the project completion
41	Improved traffic light is my preference. I habe experienced more congestion and safety hazards at the
	roundabout entering Camas from Hwy 14 than before. I see a roundabout making both worse at the
	lake intersection as well.
42	I don't want the big beautiful trees taken down. Work around them.
43	
	Regarding the trees that are taken out, I have an extensive background in environmental restoration,
	and I believe that the number of trees to be taken out is not substantial relative to the benefits
	gained from reducing the amount of fuel burned by idling cars. Regarding the traffic congestion, my
	concern is that people arriving at the roundabout from Lake Rd. and trying to turn left will have a
	hard time getting a chance to enter the roundabout when the high school ends each day, and will
	subsequently block up those trying to turn right at that roundabout from Lake Rd.
44	I believe Everett St requires widening.
45	Please consider the safety of the customers coming to and from camas produce. I am a frequent
	patron and want to be allowed safe and easy access.
46	
	Sidewalks from high school intersection on Everett to left turn intersection to doc Harris stadium
47	
	There are a lot of people moving here, and the backups during rush hour and before/after school are
	the worst. The street north of the intersection needs improved also, especially when you get stuck
40	sitting for long periods, all the way back to 15th & Leadbetter Road.
48	A traffic circle design that allows for smooth flow of northbound Everett traffic past Lake Rd and
	dedicated right turn only lanes for southbound Everett to Lake and eastbound Lake to southbound
	Everett would alleviate much of the congestion. Traffic circles have been proven to be much safer
40	than signaled intersections as well.
49	This is a City of Camas created issue. Continued averdayalanment without a preparty supported
	This is a City of Camas created issue. Continued overdevelopment without a properly supported infractructure has brought us to this. The burden of expanse should some from the many developers.
	infrastructure has brought us to this. The burden of expense should come from the many developers
50	who've been allowed to build in all areas of the city, which has led us to this congestion. Can any lanes be designated as through or turn lanes that do not have to stop unless there is
30	pedestrian at a controlled signal. Thinking of the main road in Oregon City
	peacstran at a controlled signal. Thinking of the main road in Oregon City

51	The information given to the community in regards to traffic has always been that the roads could
	handle the traffic of the growing amount of housing and population in the area. Why have these
	serveys been so inaccurate?
52	I am glad you are tackling this. It's a mess! Sidewalks please!!
53	
	I live by two of the three roundabouts in Camas, I have been almost hit several times. I even had a
	lady coming at me going the wrong way. People do not know how to drive thru round abouts, more
	times than not I have witnessed people not even looking and driving into the roundabout without
	even looking. Again I have watched many kids run red lights at this intersection and don't see where
	if they can't handle a red light how are they going to yield the right away properly at a roundabout.
	Plus to not to mention how many trees would have to come out of that area to do this properly.
54	Stop building 2 lanes and roundabouts in Camas. The city is growing at 25% per year. 4 lanes
	everywhere!
55	With camas high scool, and so many new drivers coming in and out of the scool i think a round about
	would be a horrible idea
56	
	Have you considered just adding an additional traffic light north of the intersection on Everett? The
	problem is the high school traffic that backs up a considerable distance. If they had to stop at a light
	programmed for that time of day, it would allow residents, Round Lake parking lot users, etc to get
	out AND it would reduce young drivers' speed. Just a thought.
57	not a fan of roundabouts
58	Thanks for including community in this decision process.
59	Widening the bridge and adding a center turn lane up through the high school turn off would help
	tremendously. A dedicated turn lane on lake road for at least 1/8 mile to allow flow from lake road
	to downtown camas would be easy to build and very effective at reducing congestion. Your option
	one appears to just be status quo.
60	A round-about is a terrible idea and would make traffic flow worse. Any improvement needs a right
	turn only lane south bound on Everett turning onto Lake. Going east on Lake could have 2 separate
	lanes to accomodate both right & left hand turns at the intersection so traffic can flow better onto
	Lake (later merging back to one lane). I'm also disappointed the bridge is not being addressed
	because it needs to be improved and widened to at least accomodate a bike lane as it too is a
	bottleneck.
61	
	I do not like the round about concept. In theory these are more efficient but Americans do not know
	how to use them. And it would involve what looks to be a larger impact to trees and wetlands.
62	dont displace 55 & older community
63	Voulve already made up your mind to put in a roundahout and this survey is a waste of time
64	You've already made up your mind to put in a roundabout and this survey is a waste of time. Signal Alt #3 is UNACCEPATBLE! People love Camas Produce and cup of joy. Destroying their
04	businesses should not be an option at all!
65	businesses should not be an option at all:
03	Simply widening the lanes is not going to relieve congestion much on the busiest of times. Right now,
	I cannot get out of our street during back ups. And this will do little as more neighborhoods are built
	and the extra lanes will quickly be overwhelmed and we will be right back where we started. The
	roundabout will be an adjustment, but in my experience, the traffic will continue to flow, even if at a
	slower pace. The extra lanes with lights will not only be overwhelmed in the next years, but it will
	make the area look more city like. At least the traffic circle can keep a less city-like appearance.
	make the area look more dry like. At least the traffic circle can keep a less city-like appealance.

66	
	A single lane roundabout is a bad idea. Judging by the other local roundabouts, people are not kind or
	respectful in allowing cars into the line, and this intersection is heavily travelled by new high school
	drivers. It would be safer and more efficient to have a traffic signal.
67	It would be helpful to provide alternate routes to avoid the construction area during the project time
	frame
68	With how congested the intersection already is, I feel if replacing with a roundabout it will become
	more congested and more accidents will happen. I also feel that drivers will be less aware of
	pedestrians and bicyclists and it will not be safe.
69	Public comment is critical as is getting the word out on this to the community
70	Leave it as is! I see no advantage to any of the plans!
71	Not a fan of round about and the space they require!
72	Why aren't developers and new homes paying for this? Do not destroy the wetlands, TREES, and
	nature bc over-populated Camas has a problem. Too bad. Should have thought about that before
	jamming way too many houses in the area.
73	
	I don't see how a round about will slice the congestion on the 2 roads. I prefer traffic signals.
74	Please put in sidewalks & Street Lamps
75	It would be great to have more detailed information at the next open house about current and future
	expected traffic flows.
76	Need bike lanes and crosswalks all the way up and down Lake Road
77	We do not live in Europe. We live in the United States. Driver do not know how to use round abouts,
	please quit building them.
78	The biggest issue are the turning lanes. Option one would be the lease expensive, evasive and would
	meet the needs of future traffic
79	There needs to be a way to turn right off Lake Rd. onto Everett, without waiting in a long line. Right
	now there is not enough room on the road, once 4 cars are waiting to turn left.
80	as long as the city continues to allow property to be developed w/o thinking about repercussions
	'down the road' this will be the tip of the iceberg. this problem should have been addressed long time
01	Round-a-bouts are horrible and would impact the greenery around the instersection far too much.
81	No to the round-a-bout!
82	Construction during off hours, nights or certain plan ahead advertised days
83	Construction during on hours, hights of certain plan allead advertised days
os	It is important for public safety that a turn lane is made for customers going to the Camas Produce.
84	If a roundabout is chosen can we give it two lanes.
85	Double lanes on round about
86	I HATE ROUNDABOUTS!!!!!! STOP THAT!!!!!
87	Effects on existing business DURING construction should be a primary concern. For example, people
	need to be able to access Camas Produce EASILY during construction.
88	I am worried about the trails at Round Lake continually losing mature trees and the green belt that
	allows users to feel they have actually escaped the city. There are many areas along the trails where
	you can now see houses, roads, etc. My vote would be to build a roundabout using as much of the
	existing paved area as possible, and pushing west onto the private property instead of east into the
	park.
89	After walking at the park I like to stop at the local produce market where traffic is obnoxious and a
	left turn would be awesome

90	Please keep in mind the city's newest, least experienced drivers will be flooding this intersection
	twice daily.
91	If you have a bottle neck at the bridge and just south of the intersection traffic will still back up at
	intersection
92	
	There needs to be a balance between tree/wetland mitigation and the need to get drivers where they
	are going. Traffic is only increasing and there are extremely limited alternate routes. We may need to
	do some unpopular things for the greater good and future development.
93	If you decide on the roundabout (which I don't prefer or think addresses the pedestrian issue) please
	don't landscape the middle so you can't see across it. This seems to occur on every roundabout in
	Camas,
94	This intersection better be epic. We have had to endure so much construction over the last two
	years
95	Bike lane along Lake Road and speed control for cars.
96	Please keep bicyclists in mind while planning this new intersection.
97	The roundabout needs an interactive T-Rex statue with optional jet pack.
98	Thank you for working on this. It would be much easier to just ignore the problem like Portland does.
	I appreciate that you don't do that.
99	We need improved traffic flow at the intersection, but we also need increased capacity on Everett all
	the way to 43rd Ave.
100	I don't think the intersection is that bad as it is. I think a roundabout would make the left turn more
	difficult from 500 on to lake road, maybe
101	About 120 Camas High school runners will need to cross this intersection on a daily bases to get to
	Heritage trail where they do distance running. We should consider pedestrian traffic that may be
	attempting to connect from Round Lake Park to Heritage Trail Park as well as the needs of cars and
	daily school traffic when planning for this busy intersection.
102	
	In either selection, a left turn lane needs to be included for existing businesses i.e. Camas Produce
103	
	Consider a hybrid design that incorporates lights and continuous right turn lanes vs the roundabout.
	The roundabout design is a complex traffic and pedestrian flow and would likely increase the
	probably of incidents. One to three years is way too long for construction and citizens should not be
	subject to that kind of cost and traffic congestion. Thank you the opportunity to voice my opinions.

104	
	I have concerns for either of the options that are being presented. The current intersection is signalized and is not functional as we know. The new roundabout on 6th Ave has only partially solved the problem, during peak traffic times the traffic backs up under highway 14 not to mention drivers not knowing how to use a roundabout. I experience many people stopping at the yield sign daily. Throw in 1000ish high school students "new drivers" and that could be a recipe for disaster. The bottleneck of the current bridge is a part of the problem and in my opinion will still be an issue with either option presented. With the growth that Camas has seen in recent years and appears we will continue to see based on the successes of our school system, the new home construction in the area and our recent exposure in being in the top 6 of the small business revolution. These successes are not going to slow down our growth. I am in real estate and I have many many clients call asking about the Camas area based on school scores alone. Many of those same people like the proximity to Portland and to PDX for business travel. Not to mention our quaint small town feel=) It seems to me
	that there should be a long term solution. So here is my opinion I think that the existing bridge should be converted to a one way bridge and that the place where is the new red pedestrian bridge is should be another one way bridge going the opposite direction. This would likely mean that the parking lot would be taken for use by traffic. I don't think that this would be horrible as it is hard to
	get in and out of the parking lot in its current location during peak traffic times. That is my 2 cents, I
105	said long term solution not cheap=) While I am all about saving the trees (stop letting builders squish houses in and shave the land), near
103	a road I have the opposite opinion. Flow of traffic is extremely important for the safety of our citizens. People get frustrated and cause wrecks. Emergency vehicles need access. Pedestrian s need a safe way to access that recreational area.
106	There is absolutely nothing wrong with the intersection now. Save the money and the inconvenience by leaving the intersection as is.
107	I have concerns for the businesses located within the construction corridor. Access needs to be
107	maintained and exven improved.
108	Hate the idea of a roundabout. There is a lot of traffic a times going through that intersection especially with young drivers! I am visualizing the insane roundabouts in Europe! I do not like round-a-bouts and I think one in that area, unless it is very well planned out, will be very dangerous. Too many high school drivers for a round-a-bout.
110	I really don't want a roundabout. I think a lot of the problem could be solved with some sort of intelligent signal light that gets real time data on how backed up the traffic is on Lake Road.
111	Expand from two lanes to four in all sections
112	This intersection is along a major Clark County bicycle route, and I see cyclists and pedestrians of all ages navigating this intersection, all the time to access all of the amenities in the areas surrounding this intersection. Vulnerable road users must be of higher priority than moving vehicles. And I also don't want to see trees removed. Btw, the majority of the time that I pass through this intersection it is as a car driver.
113	Above all else I really want it to be safe.
114	Roundabouts are hazards in the area. Adding one here should increase congestion, confusion, and safety concerns for all involved. It requires increased awareness on the driver's part, bicyclists and pedestrians. The simplest, quickest, solution is the best.

115	Provide access to Camas Produce!
116	Tronuc assess to camas riodace.
110	Enforcing parking on Everett and lake road during peak usage times. As a walker / biker having to
	swerve in to traffic around cars is unsafe. I worry about kids who aren't as aware.
117	I think that Option 1 is superior.
118	Access to Camas Produce.
119	I was at the informational meeting and thought it would of been nice to have question and answers
113	at the end of the presentation.
120	Access to Round Lake parking should be part of consideration.
121	I think the long term fix needs to be the goal, not something that needs to be readdressed or fixed in
121	5-10 years. Thank you for including community input:)
122	I think a roundabout would be a great improvement to the intersection.
123	Has continuing the right turn lane from Lake Road to Everett been considered? It was like that years
123	ago and maybe needs to be addressed again
124	ago and maybe needs to be addressed again
124	I prefer a roundabout style. The proposed design is too complex, expensive and will be unsafe.
125	Is this the best use of our money? I travel through there at least once a day and i don't have an issue.
123	Those that don't plan well do have an issue. Not my problem!
126	Those that don't plan wen do have an issue. Not my problem:
120	The roundabouts are bad options. aggressive flow takes over and will cause more congestion.
127	You should condemn the property to the south, mobile park and produce and combine with the park
127	for parking
128	Tor parking
120	I live just off 35th street and it is extremely dangerous currently making a left turn on Everett. I am
	concerned a round about will have a heavy stream of drivers and no breaks created by the light. We
	know the traffic for highschool is a huge part of this problem and that stream us extremely difficult
	with these drivers! My elementary son's school bus had to change their route as not able to turn left
	in the morning with current traffic- it is really concerning! The while corridor needs a published plan
	before we do this. Also, I do not want a round about as this appears to take too many trees.
129	a control of the state of the s
	Safety issue. Please provide turning lane for customers coming the roundabout to Camas Produce
130	Keep the residents involved in the process.
131	I wish we would have been kept this informed with all the new developments going in that I feel are
	wrecking our quality of living in the community.
132	· · · · · · · · · · · · · · · · · · ·
	I believe option one will meet the control and safety requirements for this intersection now and for
	the foreseeable future given the increasingly heavy use from both vehicles and pedestrians. A round
	about works for lower traffic levels, this intersection is too heavily used for that solution.
133	PLEASE MAKE SURE THERE IS SAFE ACCESS TO CAMAS PRODUCE AND THE LOBSTER TRUCK. I GO
	THERE SEVERAL TIMES A WEEK. THERE SHOULD BE A TURNING LANE THERE!
134	No roundabouts
135	Safety issues, turn lane for Camas Produce.
136	Important To minimize the impact to the small business that operate in the area. Please consider a
	turning lane for the camas produce parking lot
137	Add a turn in to Camas Produce
138	There should be safe access to camas produce

139	People do not know how to use the roundabouts. Please keep the lights. I see close accidents happen
	daily in camas roundabouts.
140	To have a better traffic flow would be amazing!
141	Make the accessibility to business easy
142	Turn lane into Camas Produce
143	The roundabout is good for safety but will NOT relieve traffic congestion. There are many examples
	of this throughout Portland.
144	
	You must slow this growth within and surrounding Camas. When is enough enough? This little
	town of ours is not little any longer. There will come a time very soon where Camas is not a place
	you want to live and raise a family. After all, all these folks moved (from larger overcrowded places)
	for small town Camas. And their ruining it by trying to make it like the dumps they came from. Stop
	giving out permit after permit and saying yes to everything for the right amount of \$\$\$\$ You have
	achieved your growth and national recognition now it's time to take care of the residents. Especially
	those of us that were born and raised here and are now raising our own families in Camas.
145	I understand times have changed and we have more people and vehicles, but I miss the old camas,
	the friendly camas. I'm not happy with what its turned into
146	Allow for easy access to local business
147	changing this one intersection is not going to reduce the amount of traffic here
148	The bridge is too small for this project to work efficiently. I canthe can see the city of Camas agreeing
	with my comment 5 years from know. It will be wise to do it right the first time and save money. I
	understand widening the bridge is very expensive.
149	Lets ensure pedestrians safety as a priority! So many on foot all year long
150	
1	
	I have lived behind the lake store for over 30 years. Please take into consideration that the pedestrian
	traffic is just as bad as the cars. This is a family gathering , summer fun, marathon, track meet,
	traffic is just as bad as the cars. This is a family gathering, summer fun, marathon, track meet, wedding, dogwalking, daily jogging destinaion for a lot of people. Emergency rescue, fire trucks go
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159	A round about would be a congested nightmare as well as a safety hazard. Too much traffic and
	impatient people who don't "play well" with others. Why encourage MORE road rage? I have seen
	vehicles run up on the high spot at the Camas entrance, several near crashes and a boat on a trailer
	tip over. If a round about is your solution, I would rather the city just leave the intersection and stop
	lights as they are!
160	Both alternatives appear to sacrifice motorist safety to the cyclists and runners who don't pay for
	roads. Option 1 with dual turn lanes to get more cars through that then immediately merge together
	will promote aggressive driving. Option 2 of a non standard roundabout will be very confusing to
	occasional non daily users and watching for crossing motor traffic tends to distract from seeing
	pedestrians. Many drivers run without headlights in dark or bad weather and look like a gap in
	traffic.
161	i'd likecto see and easy way to run/walk from Lacamas Lake to Round Lake - like a small pedestrian
	bridge over Everett
162	Factor congestion added by those parents who drive children to school rather than bus. This could
	add hundreds of cars that would generally not travel through at that time. What role is the school
	helping with awareness on their end?
163	As a former Portland resident, I appreciate the the rural setting that Camas offers. I trust that you will
	be good stewards to our community. Thank you,
164	Round a bouts not practical for all the teenage drivers going to the HS. too dangerous. Most adults
	don't even know how to drive through them.
165	A round about would work better as long as drivers understand how to use it. We have driven in
	busy cities in Europe and they work very well there.
166	This project is way overduemore important than the other 2 roundabouts put in Camas in the last
	couple of years.
167	PLEASE DO NOT put a round-about at this intersection, there is way to much traffic for that to work
	properly!
168	Camas will screw the citizens on this too.
169	Thank you
170	Thanks for including more than just the nearby residents in this project! (PS I had to check the No
	Comment box in order for the survey to accept my comment!)
171	Please include traffic calming measures. Traffic usually speeds through and is dangerous to
	padestrians
172	I like the roundabout design. Since developers seem to continue to add more residential homes this
4==	solution looks to accommodate growth.
173	
	Ensure that this does not impact kids getting to school. Have hours worked on the project take into
	consideration the high volume traffic times of our kids driving to/from the high school.
174	I strongly vote in favor of the roundabout option, provided any barriers are kept to a minimal height
	and do not obstruct vision in the intersection. It will be imperative to have maximum visibility in this
	area.
175	Stop letting developers add sub divisions, that would help our traffic problem. Build another high
4==	school for Gods sake.
176	I do not like the roundabout idea
177	well, I did have a comment and typed it in here, but the system won't accept it. How can I give
	written input? Name removed for privacy.

178	If you put in a roundabout - keeping the construction to a limited height so that folks can see what is
	happening on the other side of the roundabout would be a vast improvement over the roundabouts
	with tall constructs.
179	Roundabout is the max benefit for traffic congestion and control
180	Maybe just stop approving housing developments that continue to put strain on the road?? Common
	Sense solution. :)
181	, and the second
	Roundabouts are great. This conceptual drawing seems complicated which concerns me with all the
	new drivers passing through that intersection. I prefer the roundabout because intersection with light
	has only a limited benefit. We just need to make sure the roundabout isn't too "creative"
182	Thank you!
183	, and the second
	I think a roundabout is perfect in the afternoon when almost every car is turning right from Everett to
	lake the biggest issue is all those cars turning left from lake to Everett to the high school they could
	potentially block cars trying to go straight on Everett. The fork in the road before the roundabout
	looks like a good idea. If not a traffic signal assisted roundabout could be helpful if the signal was only
	in use in the morning to allow both avenues of approach a chance to get to the high school.
184	11 3 5
	Neither of your options will reduce traffic. You have allowed the over population of a city that does
	not have the infrastructure to support the growing population. Roundabouts only work in less
	congested areas. Adding a second lane for an 1/8th of a mile and cutting into the already small round
	lake parking lot is a waste of money. Youve allowed this problem to happen because of greed and
	over development. Now you're going to have to deal with consequences.
185	I think the roundabout option is the best.
186	
	No round abouts please people do not understand them and will not help this situation.
187	I hate roundabouts!
188	Yes prefer traffic lights with turn lanes
189	I am so happy this if finally being addressed! This is the most frustrating part of my commute DAILY,
	and I think a roundabout is genius!!
190	
	Replace the darn bridge & quit screwing around with it! Your plans only only continue to create a
	funneling effect north of the bridge wii h still slows traffic & impacts the neighborhood negatively.
191	I'd like to be able to get to work and get my kids in a timely manor
192	No more stupid roundabouts!
193	
	With the increase of roundabouts being used in the camas/Washougal area, I've noticed the lack of
	proper use by motoristsstopping instead of merging, no signal for exit, hesitant drivers interrupting
	the flow. With so many inexperienced/new drivers using this intersection because of its proximity to
	the high school, I believe average driver experience (target driver) should be given strong
	consideration when making a decision about improvements for this intersection.
194	
	It doesn't appear that option 1 will change anythingneed long turn lanes for those headed south on
	Everett over bridge and headed east on Lake Rd to keep traffic from backing up.
195	
	I would prefer the option that maximizes traffic flow and saftey for pedestrians and bikes. I assume
	the city will make a decision based on research over the "feelings" of citizens.

196	
	Please consider improving the crossing for peds/bikers as that seems to be lacking in either plan
197	With the amount of people moving through there during school hours it almost should be an over
	pass. As of now the turn circle looked like a better option
198	
	Explore a pedestrian bridge over the roadway and end of lake linking Round Lake trails to Lacamas
	trail - connect near lodge. Would get bikes and pedestrians out of that intersection.
199	I would hope the city lets stasticical evidence guide their decision rather than anecdotal opinions
	from citizens. Input is important but evidence should rule. Thank you.
200	Please don't put a round about there. That is really going to confuse people more.
201	I HATE the roundabout on Brady (my neighborhood) for its ridiculous small size. It's going to be a
	future problem. Whereas I LOVE the size and functionality of the roundabout at HWY 14 entrance!
	Please don't build anymore small roundabouts like Brady. Perhaps I ought to blame Vancouver City
	for that miserable foresight.
202	Not clear how the signalized intersection is different from current intersection. Is an extra land
	added?
203	I like the round-about design
204	PLEASE SAVE THE TREES AS MUCH AS POSSIBLE. Camas rips out trees at every turn. Round Lake is so
	sad. So much is destroyed. Please protect the natural lands for the animals, birds, trees, plants and
	the ecosystem.
205	
	The narrowness of the lake road at the Everett intersection cause a bottle neck. If 3 or 4 cars are
	waiting to turn left they end up blocking the people who could be making a free right turn causing
	major congestion and traffic that sometimes backs up all the way to Sierra
206	Adding 50% more traffic not adding lanes is not an acceptable solution.
207	Ensure city webpage is quick and easy to use. Project information needs to be immediately accessible
	in a user friendly way.
208	The roundabout would appear to help more with congestion but why not split the traffic going south
	on Everett earlier so people can turn where the road is currently on Lake. Also, a big push about how
222	to use it!
209	
	Keeping traffic flowing and time to complete to s minimum is important given that it is the only
210	convenient north/south connection and there are schools on both sides impacted.
210	We are growing so hopefully by time this is done it's not out dated with traffic. We got more then 400
211	+ home going in camas. Roundabouts are the best option!
211	Roundabouts are the best option:
212	An 'over the road' walking bridge from the Lacamas lake side over to Round Lake would be nice!
213	Don't put a roundabout there.
213	The round about will only work if it's big enough. The one at the freeway on 6th causes back up
Z 14	because it's too small so people don't feel like they have enough time to get in before a car comes.
	Also people don't know how to use it.
215	Should of fix the intersection prior to building city office on the lake Rd
216	Please don't ruin the trees
217	Should have made these adjustments before allowing the huge population growth and new
	subdivisions.
	ı

218	
210	NO ROUNDABOUTS! Will hugely impact the amount of room required to construct, and the area has
	limited driving area. You add Bicycle access as well, and it will destroy the aesthetics of that area.
219	Lost cause 3 roads too many cars
220	What about the rest of Everette and city, this is the result of the unrestranded growth the city is
220	lembacked on.
221	I wasn't clear about the impacts of the project on the bridge from initial info meant
222	A roundabout would be a nightmare. Nobody lets anybody in when its peak time
223	I feel the roundabout coming into Camas isn't big enough. I use it daily and have witnessed big trucks
223	don't have enough room to make the curve. Same for school buses. That should be considered if the
	roundabout choice is made
224	Roundabouts will not work for pedestrian and bike safety
225	This should be done before any more houses are approved that would add traffic.
226	Bike Lanes and Pedestrian Traffic needs focus.
227	Don't underestimate the impact of turnoffs north and south of the intersection (e.g. Camas Produce,
	Round Lake parking, 38th street
228	Thank you for addressing this issue.
229	This project needs to take priority, especially since Camas City Council has approved so many building
	permits and developments in the past 10 years. Also, I am concerned that currently this project does
	not also address bridge between Lacamas & Round Lakes. This bridge and its narrowness also impacts
	flow of traffic.
230	Thank you for working to improve the intersection!
231	I sat at the roundabout at 6th and hwy 14 exit for over 5 min at 5:30 the other day. I'm NOT a fan of
	roundabouts.
232	I realize roundabouts are not a popular idea comment, but I have been impressed with the new
	roundabouts in Camas/Washougal because traffic flow continues.
233	l do not care for roundabouts
234	There are a lot of new drivers that drive through the intersection. I don't believe roundabouts are
	the best option for new drivers. They tend to be confusing to those who have been driving for years,
	let alone new teen drivers.
235	I rated the impact on trees have a high ratingI'm not as concerned about the number of trees as I
	am saving the chestnut tree. I like the roundabout option for saving the chestnut tree (assuming I'm
	reading the map correctly?)
236	I'm finding the biggest back up is directly associated with the school schedule.
237	I think a roundabout is the best option.
238	His should have been done 3 years ago!
239	there should be left turns lanes through there. Is it possible to add a bridge for turning right from southbound Everett onto Lake that would merge
240	further west from the intersection? This would make a less sharp turn than currently exists and may
	help ease congestion at the intersection as well.
241	Please don't cut down a bunch of trees and ruin the wetlands
241	rease don't cut down a bunch of trees and fulliture wetlands
<u> </u>	Do it right, do it once. More time and cost (within reason) is well spent if it solves the problem.
243	plan for construction to be sensitive to school hours/schedule
244	With the current congestion and projected growth, neither idea seems like a long term plan. An
-	overpass seems like the only option to keep the flow of traffic moving while keeping
	walkers/runners/bikers safe.

245	When construction starts, please avoid working in that area right before (7:30-9:00 a.m.) school and
	right after(3:00-4:00 p.m.) the congestion is already bad during those times.
246	
	One of the biggest problems of this intersection is the insane amount of high schoolers who drive and
	use their phones for talking and texting. When I am on my home from round lake on late start days
	for Camas High School I consistently see between 5-10 high schoolers backed up all the way to Sierra
	texting on their phones. Then they speed through the intersection. It is dangerous and illegal. I do not
	believe a roundabout will provide the level of traffic control that is required at this intersection for
	the bikers and other recreational users. Roundabouts do move traffic efficiently, but they create
	unsafe situations for those not in autos. I also believe it would negatively impact the round lake
	parking lot if there was a roundabout. The current light stops traffic just long enough so that you can
	exit the parking lot. Thank you for soliticing feedback.
247	I don't believe either of the two options will reduce 5he backup on lake road you must widen lake
247	road further up than those two plans show so when the cars are backed up making a left of entering
240	the traffic circle right hand turns don't get affected
248	I have concerns about the future traffic running through Everett due to increasing numbers of homes
	being built towards Fern Prairie and near CHS. Is there any consideration of somehow expanding the
	number of lanes to Everett? It's a bottleneck!
249	If a roundabout is selected then the City should use this as an opportunity to create a landmark for
	the City.
250	Looking forward to see this improvement. There also needs to be better sidewalks and ped crossing
	north of this intersection
251	
	You must widen 500 north of the proposed intersection. Widening 500 at the same time is financially
	responsible, efficient and proactive. This oversight would be poor planning and a gross oversight. I'm
	glad you are looking at an intersection improvement, but you also need to widen 500. If that does not
	happen, why bother with the intersection? Yes, trees, land, wetlands are important, but the city
	should have thought about that before allowing so many houses and development. Increase in
	population and housing DEMANDS infrastructure for livability for all. It's the wrong time to talk about
	these wetlands, property, bridges and trees. You could have predicted the need of infrastructure
	improvements and decided upon allowing development the development was worth more to the city
	than the trees where infrastructure improvements were obvious. Think of that in the future when
	you continue to allow development. Widen 500 as an addition to this intersection proposal. This does
	not go far enough for this area and without widening 500, will not allow the maximization of this new
	intersection-limiting it's overall cost effectiveness. We want infrastructure improvements
	simultaneous, or prior to, to increased housing
252	The maps are a bit challenging to decipher. Glad to know there will be another informational
	opportunity in March, as I was unable to attend the meeting on Feb. 26th.
253	Stop studying the issue and spending ridiculous amounts of money on traffic studiesit's messed up
	and everyone knows it and a roundabout is the best solution. Do it now.
254	,
	Bridge is the real bottleneck. Explore solutions to expand rather than ignoring the root cause.
4	

The congestion at the intersection is caused not by the intersection itself but by the Lake Road approach to the intersection and the Everett Road south approach to the intersection. Neither appear capable of having two lanes that would allow right turns to move out of the intersection a not have to wait for the other drivers. Unless those two approaches can have double lanes, nothin that you do to the intersection will improve congestion 256 Please have construction done at NIGHT. It's not a big enough area now to have construction durin any rush hour or school. 257 Thank you for surveying the residents! 258 Before building permits are approved, large construction projects should have to include footing the bill for infrastructure improvements necessary to accommodate it. And we need to limit construction.
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l l
keep Camas small-town!!
259 Please do not add any more round abouts. They are the most absurd things ever.
260 Shift proposed roundabout west and south to maintain relative alignment of Everett. Please select
roundabout but shift west.
261
I would vote for the traffic light option. Especially with all the young drivers headed to the high sch
and the lakes. It appears less trees and wetlands would be disturbed. I feel it would be safer.
262 I think the roundabout is a great idea. Split the southbound traffic into two lanes as soon as you can
beyond the bridge (or widen the bridge), one lane turning right to Lake Road and one lane into the
roundabout.
263 I prefer roads to be shut down and construction done quickly. Keeping the traffic access really slow
the progress.
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232 The intersection is already signalized so the only viable flow and queding improvement is a round	292	The intersection is already signalized so the only viable flow and queuing improvement is a round
about.		about.

293	
	Best of luck. I don't see an easy fix and with more drivers coming this will be hard to fix quickly
294	I wish those running last night's meeting had allowed for a time of question and answer as a group
	after the presentation.
295	Round about is my preference. They are most efficient and safe. They are used in other communities
	with long term positive effects.
296	
	We've removed enough trees! I don't mind waiting a light or two to get through the intersection.
	Increased traffic is something the city should consider PRIOR to blindly approve building projects.
297	Transparency about how City will use a Bidding Process and how it will decide which company to give
	the business to.
298	Thank you!
299	
	Several years ago I sent a leaf sample from one of the large chestnut trees near here to the American
	Chestnut Foundation for identification to see if it was an American chestnut. They said it was in fact a
	European chestnut. I am pretty sure that the largest chestnut trees in this area were planted by the
	Pittock family circa 1890, and the smaller chestnuts are seedlings from the originals. It is neat to have
	a few living remnants of the Pittock family's time spent in this area.
300	
	Sad not to see the information that was presented at the open house. I would like to know more
	about impact on private property, lake and trees if they are affected by this project. Would like to see
	also other people's questions and concerns and be able to anonymously add to them if I have any.
301	I thing the roundabout would be the very best solution!
302	Roundabout. Just do it. Ignore the haters. They have proven effective and the local citizens are
	getting accustomed to using them.
303	
	I would like to understand the potential savings if the road isn't kept open during construction; how
	would pedestrian traffic be safely managed with a roundabout?; Prefer function over aesthetic unless
	it grows significantly as shown in the roundabout sketch.;
304	
	If a round about is put in then it needs monitoring by police so that people who do not use the yield
	signs are ticketed with a high fine of 200+ dollars so that they are utilized correctly.
305	Biggest worry is the traffic issues DURING construction as I drive through the intersection at least 2
	times a day to get to/from work to home. We already dealt with extensive traffic delays during
	sewer and re paving work. Not looking for more!
306	need to add a sidewalk on the south side
307	NO ROUNDABOUT. PEOPLE DO NOT KNOW HOW TO USE THEM AND THEY HAVE RUINED GETTING
	ON AND OFF OF SW 6TH
308	Reduce congestion. The lines are awful during school times.
309	Would like roundabout circle to be a little bit larger with single feed on the circle, and not double
	feed going to and from Lake Road.
310	Would love to see some real thought put into the aesthetics of this - keep as many trees up as
<u> </u>	possible and make this a beautiful entrance to the historic side of Camas!
311	I wonder what the foot traffic plan would be with a roundabout. Summer foot traffic is very heavy on
	hot weekends.
312	Don't cut down any more trees. I moved my family to Camas for the beauty and greenery. Stop
	cutting down trees.

313	A roundabout is a terrible idea. These are high schoolers. The majority of people don't do
	roundabouts correctly
314	
	If it's a roundabout I would like the safety of the pedestrians & CHS runners to be strongly taken into
	consideration during the design phase & the public to be CLEARLY shown how to manuver correctly
315	Thanks for listening
316	I'm not convinced that either project will reduce traffic congestion. There are so many new housing
	developments being built that the number of cars using that intersection has tripled. Camas needs to
	stop growing unless the roads can handle all the new growth.
317	I prefer alternative 2 with Roundabout - blue line configutation with minimal impact top Round Lake
	parking. Impact to private property on lake. Minimal impact to Lake
318	
	Please provide a venue that is large enough to accommodate the public. I went to the first meeting
	and had to leave. There was not enough seats and I could not get into the room to see the
	presentation. The person speaking was also way too soft spoken so I could not hear what was being
	said. There were displays at the back of the room which I could not view since it was SRO and access
210	was completely blocked. Overall, a highly disappointing experience.
319	I am very concerned about the difficulty for motorists entering Everett from 35th Ave. During busy
	times, we must rely on the short gaps in northbound traffic caused by the traffic light switching.
	While I think a roundabout will improve traffic flow, it will cause more issues (and accidents) at 35th Ave.
320	My concern is for the trees and surrounding environment. The choice should protect these things as
320	much as possible.
321	Im not sure I see how the signal option,#1, will improve flow. Bottle neck at the bridge. I really like
] 321	the roundabout version as it will improve traffic flow but don't see how either plan will improve
	safety for pedestrian movement from the two paths around the lakes. Is a pedestrian bridge at all in
	the concepts?
322	No traffic circles!
323	
	Please no roundabout. Traffic is too congested and dense in small time frames for this to work. It
	would be a nightmare during the school year. These only work if traffic is spaced out a bit.
324	Rectrict trucks and things should greatly improve.
325	I live right there and use that intersection several times a day. I don't think it's awful. Yes, traffic gets
	congested at times, but overall it's not a horrible interesection. I would like to see park and other
	natural property preserved. Should a roundabout be chosen, I would like to see ahead of time how
	pedestrian safety will be addressed.
326	
	Roundabout seems like the most efficient proposal. Not sure from the traffic what the bold orange
	line is, but assume the thinner orange line is pedestrian crossing. I like that it is moved away from the
	circle so traffic can continue during the limited times pedestrian traffic is present.
327	No roundabout. No widening of Everett south of Lake Rd. Use signals during peak hours uphill of
222	Lacamas Lake Park & south of 21st Ave
328	I abhor roundabouts, especially in this area as roundabouts are difficult for pedestrians to cross. A
	flyover walkway from the round table parking lot would work. As far as communication, I don't use
	my cell phone for anything but texts and phone calls. So, I think in the mail notices and email notices
	are very helpful.

[This comment was moved from the responses to Question 5] #8 Isn't letting me write a comment and is only accepting "no Comment" box check. My comment for #8 is that I like the roundabout solution as it will accommodate the growth that is already in action in our town and the traffic is only going to increase