CITY OF KENMORE

6-Year TRANSPORTATION IMPROVEMENT PROGRAM (TIP)

2020-2025

June 17, 2019

CITY OF KENMORE

2020-2025 Transportation Improvement Program

Project name	Funding	Year							2020-2025 Totals	Project Totals
		Prior Years	2020	2021	2022	2023	2024	2025		
SR 522 West B (57th to 61st)	Local	$ -							$ -	$ -
	Federal/State	$ -			$ 600,000	$ 600,000	$ 6,800,000		$ 8,000,000	$ 8,000,000
	Unsecured	$ -							$ -	$ -
	Subtotal	$ -	$ -	$ -	$ 600,000	$ 600,000	$ 6,800,000	$ -	$ 8,000,000	$ 8,000,000
West Sammamish River Bridge Replacement	Local	$ 179,129	$ 603,375	$ 691,760	$ 162,094	$ 232,924	$ 24,567	$ 23,521	$ 1,738,241	$ 1,917,370
	Federal/State	$ 4,172,301	$ 9,056,232	$ 10,497,028	$ 8,238,433				$ 27,791,693	$ 31,963,994
	Utilities		$ 1,444,494	$ 1,455,928	$ -				$ 2,900,422	
	Unsecured								$ -	$ -
	Subtotal	$ 4,351,430	$ 11,104,101	$ 12,644,716	$ 8,400,527	$ 232,924	$ 24,567	$ 23,521	$ 32,430,356	$ 36,781,786
68th Avenue NE Pedestrian and Bicycle Improvements	Local	$ 853,000	$ 5,362,200	$ 2,230,025					$ 7,592,225	$ 8,445,225
	Federal/State	$ 50,000	$ 602,970	$ 401,980					$ 1,004,950	$ 1,054,950
	Unsecured								$ -	$ -
	Subtotal	$ 903,000	$ 5,965,170	$ 2,632,005	$ -	$ -	$ -	$ -	$ 8,597,175	$ 9,500,175
Juanita Drive Pedestrian and Bicycle Improvements	Local	$ 2,805,509	$ 1,857,865	$ 822,376					$ 2,680,241	$ 5,485,750
	Federal/State	$ 575,600	$ 2,044,350	$ 1,362,900					$ 3,407,250	$ 3,982,850
	Unsecured		$ 3,803,400	$ 2,535,600					$ 6,339,000	$ 6,339,000
	Subtotal	$ 3,381,109	$ 7,705,615	$ 4,720,876	$ -	$ -	$ -	$ -	$ 12,426,491	$ 15,807,600
Pavement Preservation Program (Prior year Expenditures are as of 2016 only)	Local	$ 2,148,200	$ 1,714,364	$ 550,000	$ 550,000	$ 550,000	$ 550,000	$ 550,000	$ 4,464,364	$ 6,612,564
	Federal/State	$ -	$ 355,351						$ 355,351	$ 355,351
	Unsecured								$ -	$ -
	Subtotal	$ 2,148,200	$ 2,069,715	$ 550,000	$ 550,000	$ 550,000	$ 550,000	$ 550,000	$ 4,819,715	$ 6,967,915
2018 Local Road Safety - Signing	Local		$ 8,800						$ 8,800	$ 8,800
	Federal/State		$ 79,000	$ 267,000					$ 346,000	$ 346,000
	Unsecured								$ -	$ -
	Subtotal	$ -	$ 87,800	$ 267,000	$ -	$ -	$ -	$ -	$ 354,800	$ 354,800
2018 Local Road Safety - Lighting	Local		$ 1,000						$ 1,000	$ 1,000
	Federal/State		$ 9,000	$ 25,000					$ 34,000	$ 34,000
	Unsecured								$ -	$ -
	Subtotal	$ -	$ 10,000	$ 25,000	$ -	$ -	$ -	$ -	$ 35,000	$ 35,000
NE Arrowhead Drive Sidewalk Improvements	Local								$ -	$ -
	Federal/State								$ -	$ -
	Unsecured			$ 173,600	$ 1,260,726				$ 1,434,326	$ 1,434,326
	Subtotal	$ -	$ -	$ 173,600	$ 1,260,726	$ -	$ -	$ -	$ 1,434,326	$ 1,434,326

CITY OF KENMORE

2020-2025 Transportation Improvement Program

Project name	Funding	Year							2020-2025 Totals	Project Totals
		Prior Years	2020	2021	2022	2023	2024	2025		
SR 522 Crossing Study	Local								$ -	$ -
	Federal/State		$ 200,000	$ 300,000					$ 500,000	$ 500,000
	Unsecured								$ -	$ -
	Subtotal	$ -	$ 200,000	$ 300,000	$ -	$ -	$ -	$ -	$ 500,000	$ 500,000
Lower Swamp Creek Bridge Replacement (design only)	Local								$ -	$ -
	Federal/State								$ -	$ -
	Unsecured					$ 404,000	$ 404,000		$ 808,000	$ 808,000
	Subtotal	$ -	$ -	$ -	$ -	$ 404,000	$ 404,000	$ -	$ 808,000	$ 808,000
Sidewalk Replacement/Gap Program	Local	$ 25,000	$ 175,000	$ 100,000	$ 100,000	$ 100,000	$ 100,000	$ 100,000	$ 675,000	$ 700,000
	Federal/State								$ -	$ -
	Unsecured								$ -	$ -
	Subtotal	$ 25,000	$ 175,000	$ 100,000	$ 100,000	$ 100,000	$ 100,000	$ 100,000	$ 675,000	$ 700,000
73rd Ave NE Restriping and Widening for Bike Lanes	Local								$ -	$ -
	Federal/State								$ -	$ -
	Unsecured			$ 95,300	$ 656,215				$ 751,515	$ 751,515
	Subtotal	$ -	$ -	$ 95,300	$ 656,215	$ -	$ -	$ -	$ 751,515	$ 751,515

City of Kenmore Capital Improvement Program

Project Name: SR 522 West B (57 Avenue NE to 61 Avenue NE)

Project No. T-8

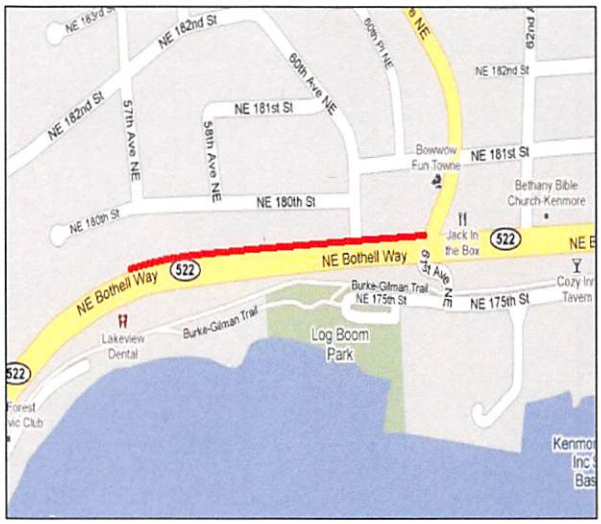
Project Location: SR 522 from 57 Avenue NE to 61 Avenue NE

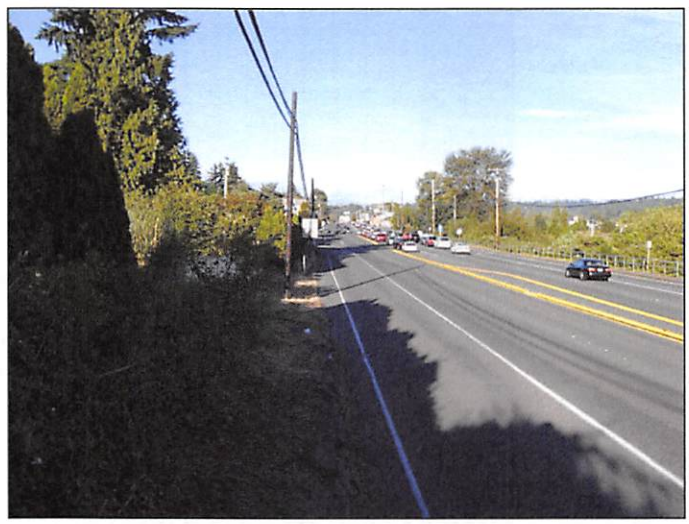
Project Manager: Kent Vaughan

Project Description: This project will widen Highway 522 west of 61 Avenue NE to the south to provide dual eastbound to northbound left turn lanes at the SR 522 / 61 Avenue NE traffic signal and eastbound-to-westbound u-turn capability at the intersection. The widening would require construction of a retaining wall along the north side of the Burke-Gilman Trail.

Background: Since its incorporation, the City of Kenmore has completed improvements to SR 522 (Bothell Way) between 61st Avenue NE and the east city limits to increase safety, improve transit reliability, and ease congestion. Improvements included adding new traffic signals, street lighting and sidewalks, widening SR 522 for Business Access and Transit lanes, enhancing the corridor with new landscaping and medians to improve access management, replacing the Swamp Creek Bridge, undergrounding utilities, and more. The final segment, SR 522 West B (57 Avenue NE to 61 Avenue NE) will complete corridor improvements to the west City limits.

Funding Sources: This project is funded by the State's Connecting WA. The first installment of the funds ($4M) are expected to become available after July 1, 2019. Design may resume earlier if staffing allows. City surface water fees may be proposed to fund the surface water component of the project.





City of Kenmore Transportation Improvement Program

Project Name: West Sammamish River Bridge Replacement Project

Project Location: 68th Avenue NE between NE 170th Street and NE 175th Street

Project Manager: John Vicente

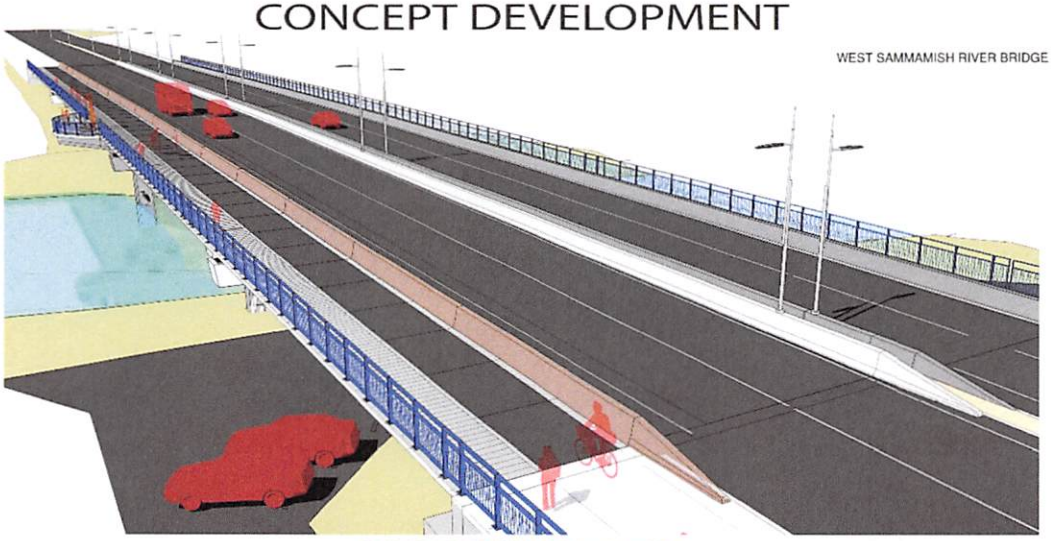
Project Description: Replace the West Sammamish River Bridge (southbound traffic) that crosses the Sammamish River on 68th Avenue NE. The project will also include new sidewalk and bike path, landscaping, lighting, and utility undergrounding on 68th Avenue NE between NE 170th Street and NE 175th Street.

Background: The West Sammamish River Bridge was constructed in the 1930's and is at the end of its life. It is considered to be structurally obsolete. To date, the City has completed an alternatives analysis, a scour analysis, a load rating analysis, and has applied load restrictions on the bridge (weight limits went into effect in 2014). The bridge continues to be monitored during the design of the new bridge.

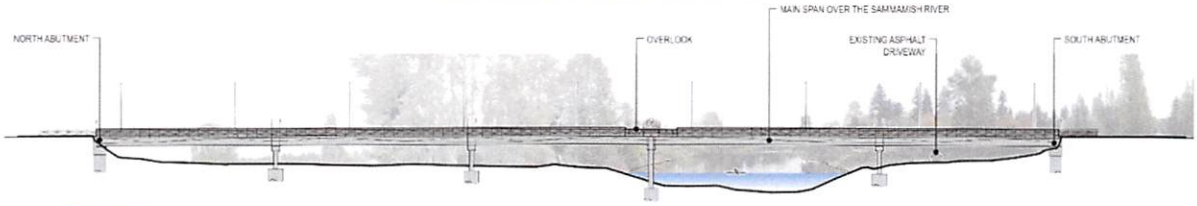
Funding Sources: The City has been awarded several grants for the project. The City was awarded $12M in Bridge Program funds, $1.06M in Surface Transportation funds, $12M in Connecting Washington funds, and $6.9M in TIB funds.

Project Location

CONCEPT DEVELOPMENT



BRIDGE DECK VIEW LOOKING NORTH



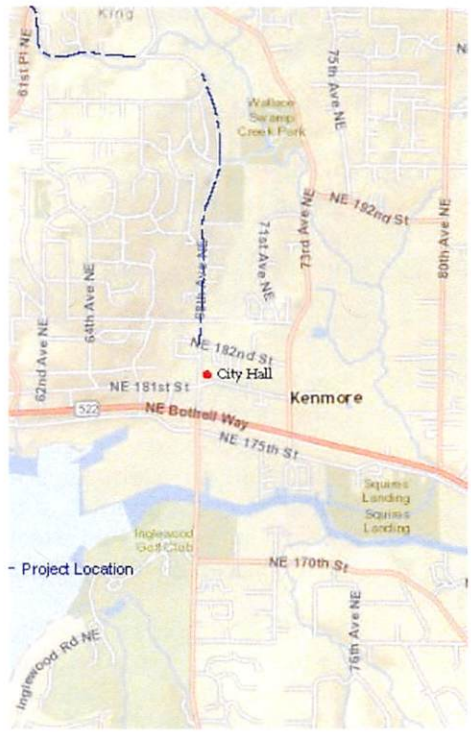
MAKERS

BRIDGE DECK VIEW LOOKING EAST

City of Kenmore Transportation Improvement Program

Project Name: 68 Avenue NE Pedestrian and Bicycle Improvements

Project Location: 68 Avenue NE / NE 202 Street
Segment a: West side of 68 Avenue NE from NE 182 Street to NE 185 Street
Segment b: East side of 68 Avenue NE from NE 185 Street to existing sidewalk
Segment c: West side of 68 Avenue NE from NE 185 Street to NE 201 Street
Segment d: North side of NE 202 Street from 66 Avenue NE to 61 Avenue NE



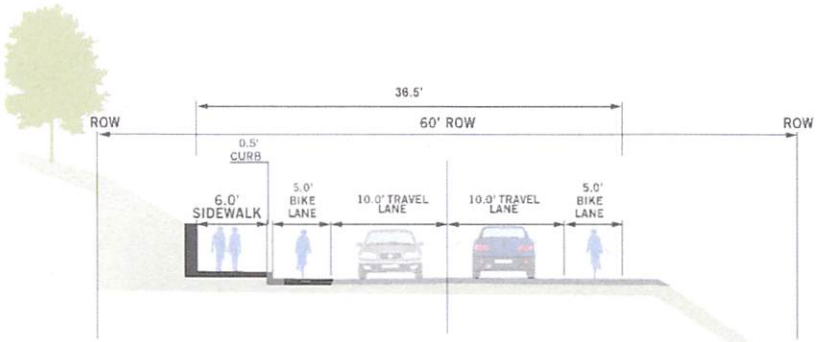
Project Manager: Kent Vaughan

Project Description: This project provides continuous ADA accessible sidewalk and bike lanes on 68 Avenue NE and NE 202 Streets respectively between NE 182 Street and 61 Avenue NE. Other project components include new drainage, LED street lighting of existing power poles, retaining walls and utility relocation where necessary.

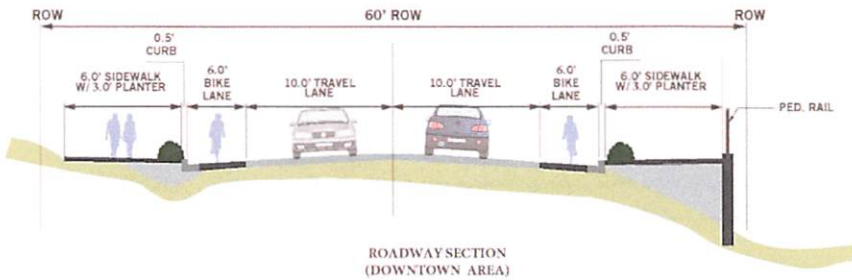
Background: 68 Avenue NE / NE 202 Street is a collector arterial roadway that runs north/south through the City of Kenmore. This roadway serves as a primary connector to Downtown Kenmore and City Hall for residences and Kenmore Middle School. The current street configuration allows for only one travel lane in each direction and intermittent asphalt shoulders. The posted speed is 35 mph.

Funding Sources: In November 2016, the citizens of Kenmore voted to pass a public bond measure to fund this sidewalk/bicycle improvement project. Grants are also being sought to fund this project.

Proposed Improvements:



REDUCED ROADWAY SECTION
(NORTH OF DOWNTOWN)



ROADWAY SECTION
(DOWNTOWN AREA)

City of Kenmore Transportation Improvement Program

Project Name: Juanita Drive NE Pedestrian and Bicycle Improvements
Project No. T-41

Project Location: Juanita Drive NE (NE 143 Street to NE 170 Street)

Project Manager: Kent Vaughan

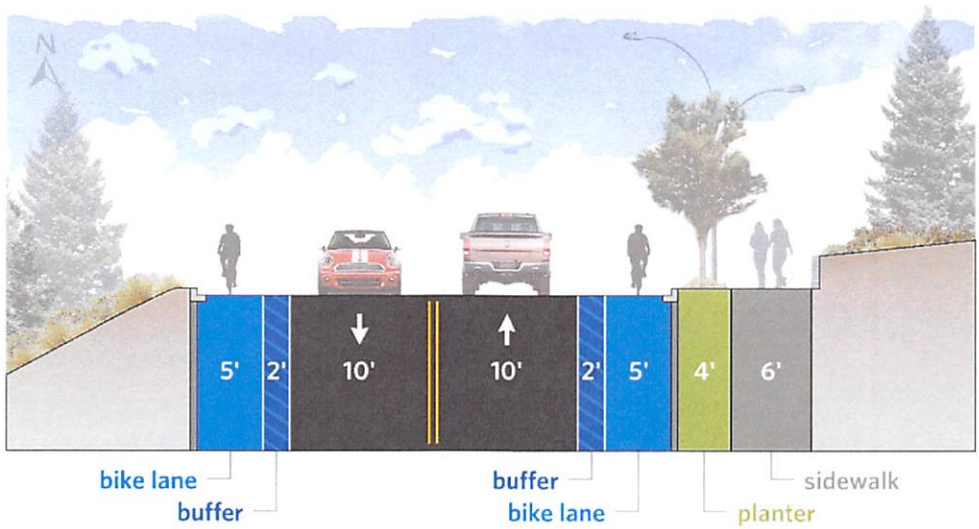
Project Description: This project provides continuous ADA accessible sidewalk and buffered bike lanes on Juanita Drive NE between NE 143 Street and NE 170 Street. Specific project components include:

- Sidewalk along the east side of Juanita Drive NE where residential neighborhoods are located. Sidewalk improvements and pedestrian crossings on west side of street will be limited to bus stops only.
- Bike lanes with buffer on the east and west side of Juanita Drive NE;
- Additional or extensions of left turn lanes where warranted;
- Pedestrian crossing treatments to improve nonmotorized safety, connectivity, and comfort;
- Improved storm drainage, LED street lighting, landscaping and aesthetics and;
- Utility relocation and/or retaining structures, where necessary.

Background: Juanita Drive NE serves as a north-south critical link to the City's Downtown, SR 522 Corridor, Burke-Gilman Trail, Bastyr University, Kenmore Senior Center, Parks, and Arrowhead Elementary School for thousands of local residents and is part of the Lake Washington Loop, one of the region's most popular recreational cycling routes. Juanita Drive NE is an existing minor arterial roadway with mostly one travel lane in each direction and asphalt shoulders. The posted speed is 35 mph. This roadway experiences a high number of accidents per year and contains several geometric deficiencies including lack of continuous sidewalks and bicycle lanes. Up to 250 bicycles and 15,000 vehicles use this corridor daily.

Funding Status: This project is partially funded. In November 2016, the citizens of Kenmore voted to pass a public bond measure to begin design work on Juanita Drive NE in 2017 and provide matching funds to pursue State and Federal grant opportunities to fund the right-of-way and construction phases of the project. To date, $525K in WSDOT Pedestrian and Bicycle Program grant funds have been awarded. Additional grants will be pursued to fund this project.

Typical Section – two lanes *(Looking North)*



City of Kenmore Transportation Improvement Program

Project Name: Pavement Preservation Program
Project No.: T-35

Project Location: Citywide.

Project Manager: Tobin Bennett-Gold

Project Description: This program includes all grind and overlay, crack seal, and slurry seal projects within the City. Typically grind and overlay projects are completed on roadways with pavement ratings between 60 and 70, while slurry seal operations are completed on roadways with ratings above 70. Crack sealing typically occurs on roads as a preparation treatment prior to a planned slurry seal. As part of any pavement overlay, curb ramps within the project limits are upgraded to comply with the American's with Disabilities Act (ADA). In addition, pavement overlay may also include major pavement repairs, utility adjustments and pavement markings. Pavement Preservation projects provide appropriate traffic control and field inspection during construction and re-establish pavement markings, if applicable, when the preservation work is complete.

Background: The City of Kenmore Comprehensive Plan promotes a fiscally constrained Transportation Element that prioritizes operation and maintenance of existing facilities within the City. Focus is typically on arterials within the City. In addition, there are 3 goals listed in the Comprehensive Plan that support this program:

1. Provide a complete transportation network serving local and regional circulation needs, safely accommodating all users;
2. Promote a transportation system that contributes to fiscal and environmental sustainability;
3. Facilitate freight mobility and economic prosperity.

City of Kenmore Transportation Improvement Program

Project Name: 2018 Local Road Safety – Signing
Project No.: TBD

Project Location: Citywide

Project Manager: Kent Vaughan

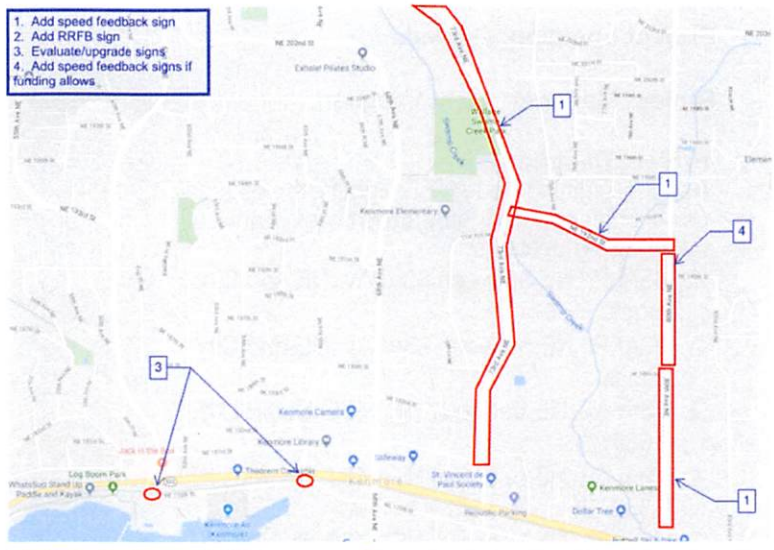
Project Description:

A. Evaluate the intersection of NE 175th St. at the 61st Ave NE and 65th Ave NE:
   1. Evaluate traffic flow patterns
   2. Upgrade/modify signage as needed
   3. Evaluate/modify striping and access
   4. Evaluate sight distance

B. Add two pedestrian actuated rectangular rapid flashing beacons for the crosswalk on the south leg of the intersection at 84th Av. NE and NE 145th St.

C. Install a radar speed feedback sign at the following locations:
   1. 80th Av. NE northbound between NE 179th Pl. and NE 185th St.
   2. 80th Av. NE southbound between NE 179th Pl. and NE 185th St.
   3. Simonds Rd. NE northbound between 92nd Av. and NE 151st St.
   4. Simonds Rd. NE southbound between 92nd Av. and NE 151st St.
   5. 73rd Av. NE northbound between NE 181st St. and NE 204th St.
   6. 73rd Av. NE southbound between NE 181st St. and NE 204th St.
   7. Juanita Dr. NE northbound south of the intersection with NE Arrowhead Dr./NE 153rd Pl.
   8. Juanita Dr. NE southbound south of the intersection with NE Arrowhead Dr./NE 153rd Pl.
   9. NE 192nd St. eastbound between 80th Av. NE and 73rd Av. NE
   10. NE 192nd St. westbound between 80th Av. NE and 73rd Av. NE

D. If funds allow, install a speed feedback sign at the following locations:
   1. 80th Av. NE northbound between NE 192nd St and NE 185th St.
   2. 801h Av. NE southbound between NE 192nd St and NE 185th St.



Background: In 2015, the Local Road Safety Plan was created that identified these improvement to enhance safety for pedestrians and bicyclists. One of the most effective and visible traffic calming measures for arterials are speed feedback signs and flashing beacons. These signs and beacons can be mounted at the roadside with direct wired power or solar panel power. There are currently several of these signs and beacons throughout the City. The signs allow for tracking of the effectiveness of the signs, identify locations where speed may be a continuing problem and allow for coordination with the police for targeted high visibility enforcement to supplement the feedback sign's traffic calming effect.

Funding Sources: This project is funded by the WSDOT Highway Safety Improvement Program grant and City funds (10% of the design cost only).

City of Kenmore Transportation Improvement Program

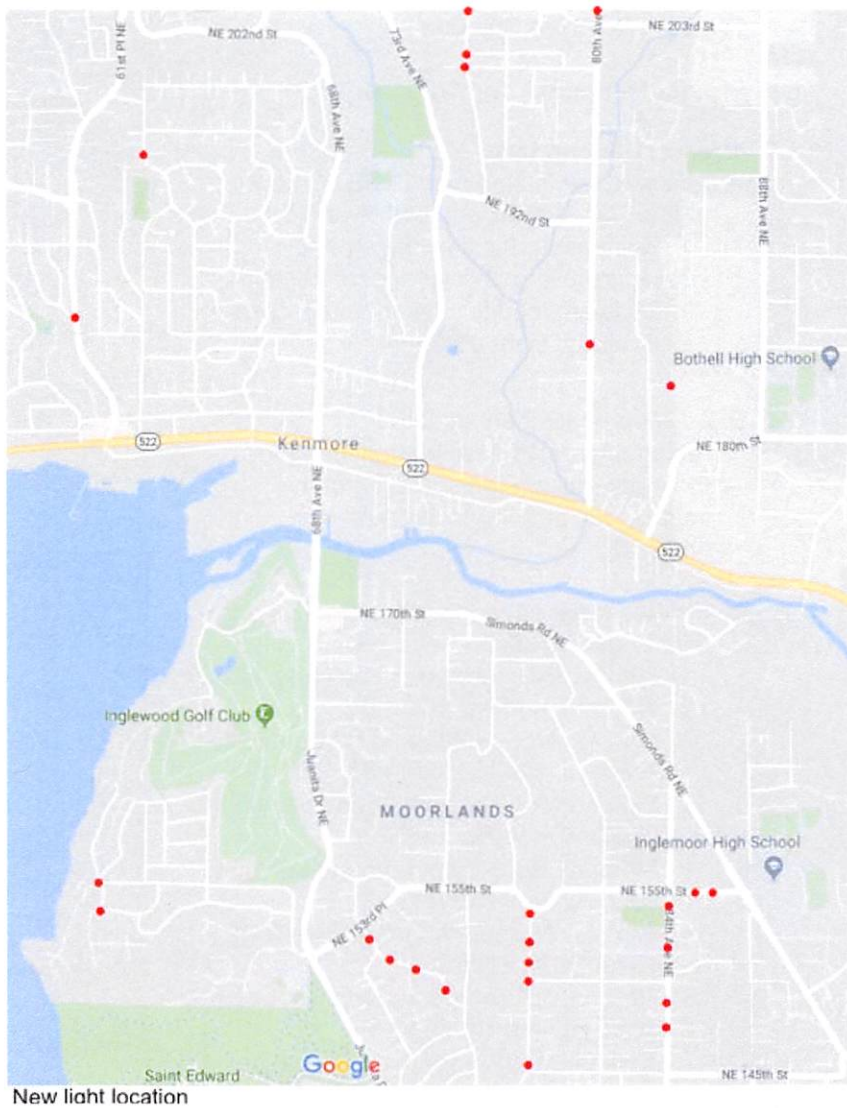
Project Name: 2018 Local Road Safety – Lighting
Project No.: TBD

Project Location: Citywide

Project Manager: Kent Vaughan

Project Description:
Add light emitting diode (LED) lighting to existing power poles (where lighting does not exist now) at the following locations:

1. 83rd Pl. NE between 83rd Av. NE and City Limits
2. 83rd Pl. NE between 83rd Av. NE and City Limits
3. 78th Av. NE between NE 145th St. and NE 155th St.
4. 78th Av. NE between NE 145th St. and NE 155th St.
5. 78th Av. NE between NE 145th St. and NE 155th St.
6. 78th Av. NE between NE 1451h St. and NE 1551h St.
7. 74th Pl NE between 75th Av. NE and NE 150th St
8. NE 150th St. between 74th Pl NE and 70th Av. NE
9. NE 150th St. between 74th Pl NE and 70th Av. NE
10. 70th Av. NE between NE 150th St and NE 153rd Pl.
11. 62nd Av NE and NE 195th St
12. NE 155th St between Simonds Rd NE and 84th Av. NE
13. NE 155th St between Simonds Rd NE and 84th Av. NE
14. 84th Av NE between NE 145th St. and NE 155th St.
15. 84th Av NE between NE 145th St. and NE 155th St.
16. 84th Av NE between NE 145th St. and NE 155th St.
17. 84th Av NE between NE 145th St. and NE 155th St.
18. 75th Av NE and NE 200th St
19. 75th Av NE and NE 201st St
20. 75th Av NE and NE 205th St
21. 80th Av NE and NE 185th St
22. 80th Av NE and NE 205th St
23. NE Arrowhead Dr and 61st Pl NE
24. NE 154th St and 61st Pl NE
25. 61st Av NE and 60th Av NE



New light location

Background: A street lighting program involves a systematic review of street lighting on residential collector roadways. Roads that lack sidewalks, have frequent intersections, horizontal or vertical curves or are heavily vegetated would be higher priority candidates for additional lighting.

Funding Sources: This project is funded by the WSDOT Highway Safety Improvement Program grant and City funds (10% of the design cost only).

City of Kenmore Transportation Improvement Program

Project Name: NE Arrowhead Drive Sidewalks
Project No.: T-27

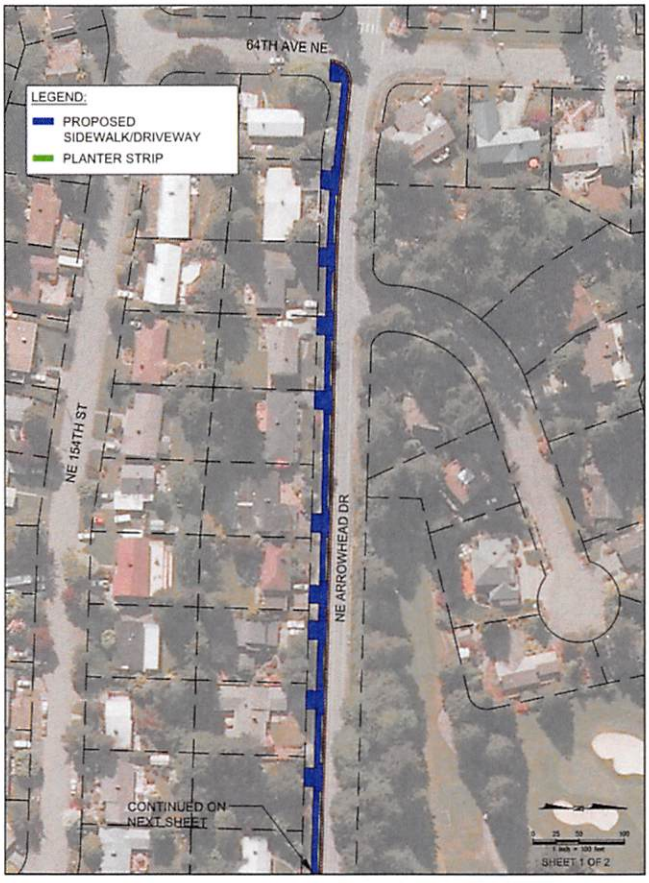
Project Location: NE Arrowhead Drive between NE 151st Street and 64th Avenue NE.

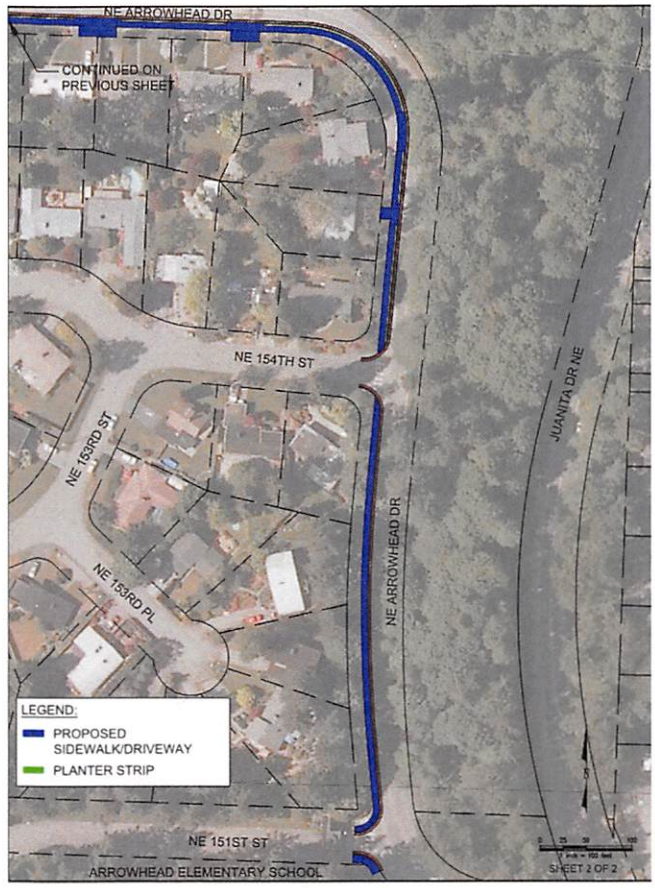
Project Manager: To Be Determined

Project Description: This project builds new sidewalks on west side of NE Arrowhead drive from the Arrowhead Elementary to approximately 1000 feet north.

Background: NE Arrowhead Drive varies from 3-foot wide to 5-foot wide shoulder with two way traffic. NE Arrowhead Drive is a designated walking route for Arrowhead Elementary School students. Sidewalks along this road were identified as a high priority during the neighborhood meetings held for this area as part of the Neighborhood Transportation Program Plan.

Funding Sources: This project is currently unfunded. In May 2018, staff applied for a WSDOT Safe Route to Schools grant to fund this project. Grant results will be announced in the fall of 2018.





Proposed Improvements

City of Kenmore Transportation Improvement Program

Project Name: SR 522 Crossing Study
Project No.: T-43

Project Location: State Route 522 between 61st Ave NE and 68th Ave NE.

Project Manager: John Vicente

Project Description: Type, size, and location study to evaluate potential crossing locations of SR 522 between 61st and 68th Avenues. The alternatives will include both grade-separation and at-grade crossing improvements. All facilities analyzed will consider walking and biking as priority modes, but vehicles will also be considered.

Background: SR 522 currently has signalized crossings located at 68th Ave NE and 61st Ave NE, and no other safe crossings are located between these two intersections, a distance of over 0.5 mile. The north side of SR 522 is composed of several commercial businesses, a mix of single and multi-family housing, the City's downtown and other community destinations (post office, public library, City Hall, parks, etc.). The south side of SR 522 has the Burke-Gilman trail (a regional trail serving several cities and connecting many communities), Kenmore Air, and the future Lakepointe Development (a multifamily/commercial development on 40 acres of lake front property). The proposed crossing would help to connect Downtown Kenmore, community destinations, and the many businesses and residences north of SR 522 with the proposed Lakepointe development, the Burke-Gilman Trail, and Kenmore's waterfront. SR 522 currently serves as a major barrier for north-south mobility in Kenmore, particularly for bicycle and pedestrian travel.

Funding Sources: This project is currently funded with $500K of State appropriated funds.

Study Area

City of Kenmore Capital Improvement Program

Project Name: Lower Swamp Creek Bridge Replacement
Project No.: T-38

Project Location: NE 175th Street/Swamp Creek Crossing

Project Manager: To be determined

Project Description: The bridge over Swamp Creek at NE 175th Street has reaching its expected lifespan and is in need of replacement.

Figure A: Existing Bridge

Background: This structure is on NE 175th Street, adjacent to the Burke Gilman Trail and crosses Swamp Creek. This structure currently is wide enough for two way vehicle traffic. The existing structure is routinely evaluated by the King County, our Bridge Engineering team. Maintenance is provided to the structure as needed. The City's Bridge Inspection Team recommended evaluation of the structure for rehabilitation vs. replacement. A study and alternatives analysis was performed in 2016 that recommended replacement of the bridge within the next 10 years.

Funding Status:
There is no funding set aside for design or construction for a new bridge. Funding sources will be evaluated and proposed during the 2023/2024 budget plan.

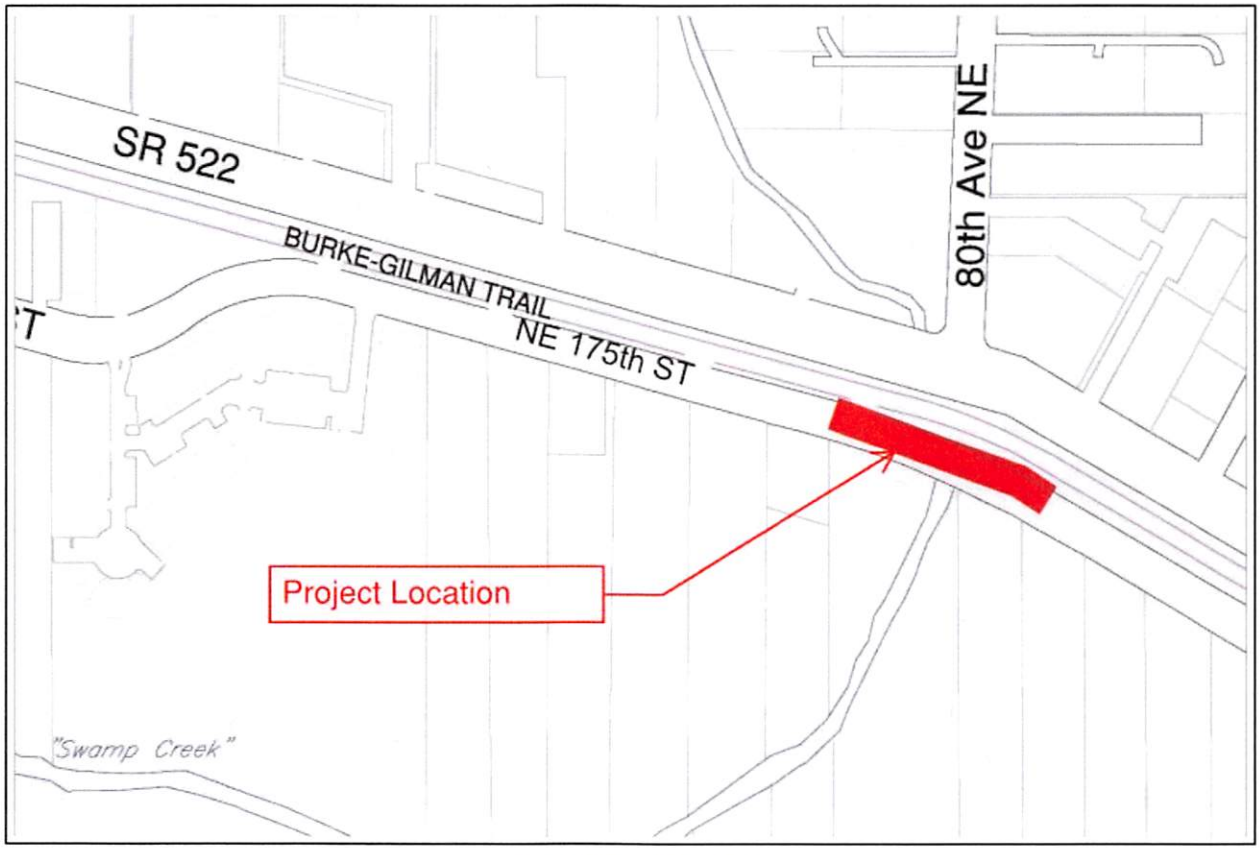


Figure B: Project Location

City of Kenmore Transportation Improvement Program

Project Name: Sidewalk Gap/Replacement Program
Project No.: T-27

Project Location(s): Citywide

Project Manager: Terri Bielenberg

Project Description: These projects are intended to complete gaps in existing sidewalk, replace non-compliant curb ramps and sidewalks at the identified locations throughout the city. Typical projects include new 5-6 foot wide sidewalk and ADA ramp improvements, curb ramp replacement, and sidewalk panel replacement.

Background: The City completed an inventory and assessment of its pedestrian facilities within the right of way. Several locations were identified as not being compliant with the American with Disabilities Act (ADA) standards. Also, filling sidewalk gaps is a cost effective way to improve mobility within the City. Staff will utilize the pedestrian facility inventory completed in 2015 to identify priorities for replacing noncompliant accessible routes and for gaps to propose for projects.

Funding Sources: $100K per year of local City funds are allocated to this project.

Figure A

City of Kenmore Transportation Improvement Program

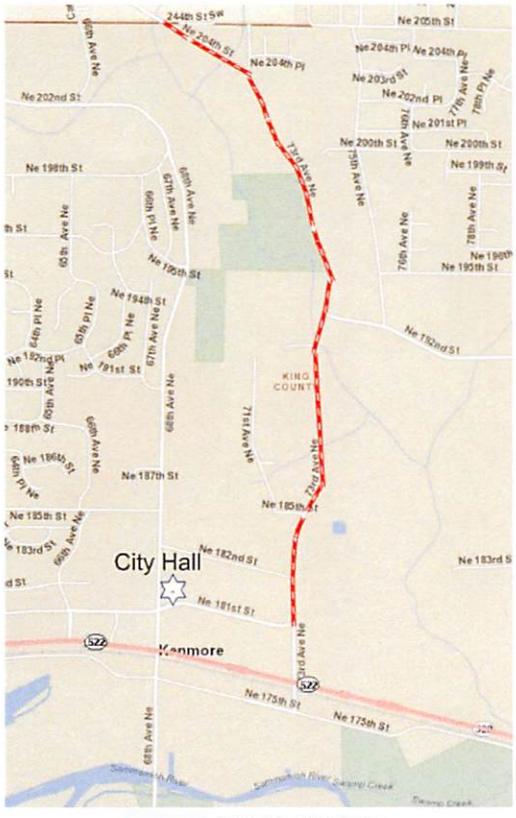
Project Name: 73rd Ave NE Restriping and Widening for Bike Lanes
Project No.: TBD

Project Location: Citywide

Project Manager: Kent Vaughan

Project Description:
This project would provide approximately 7,000 feet of dedicated, buffered bike lanes on both sides of 73rd Avenue NE from NE 181st Street to NE 205th Street. The bike lanes would be separated from vehicle traffic by up to a two-foot wide painted buffer. Existing striping along 73rd Ave NE will be removed and the centerline shifted to allow for sufficient space for a 5-foot bike lane. Additional paving will be required to widen the roadway in locations north of NE 192nd St.

The public will be engaged with the development of this project.



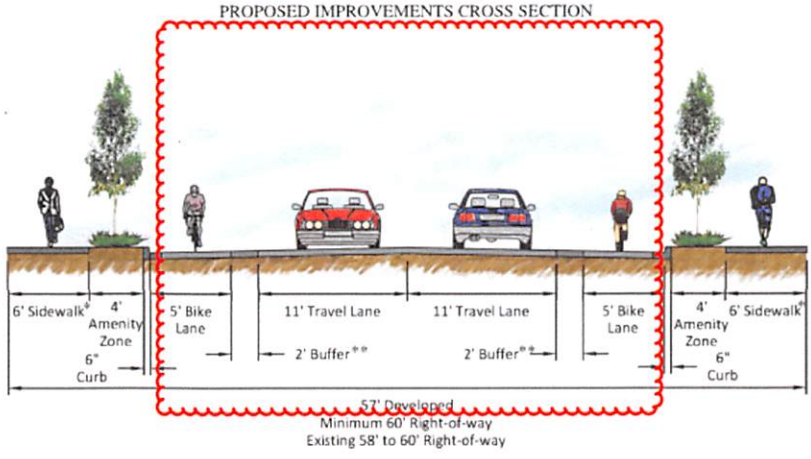
Proposed Restriping Limits

Background: 73rd Avenue NE is a 35 MPH minor arterial connecting the northern part of Kenmore to the City's downtown and commercial areas, parks, the Burke Gilman Trail, and the Kenmore Park and Ride/Transit facility. 73rd Avenue NE also connects with Kenmore Elementary and Kenmore Junior High School.

Shoulders along this corridor are either narrow or have existing on-street parking forcing bicyclist to share the road with vehicles and limiting sight distance for vehicles entering traffic. This creates potential conflicts and increases crash risk for all road users. Cyclists, occupying the outside edge of the roadway, are disproportionately affected by these issues as well as being especially vulnerable to high severity crashes.

This project is currently identified in the Transportation element within the City's Comprehensive plan. And is consistent with the City's current Road Standards

Funding Sources: This project is currently unfunded. This project was submitted to Sound Transit for grant



* Sidewalk currently exists from NE 181st to NE 192nd St
** Bike lane width may vary from 0'-2'