Council Meeting Date:	May 9, 2016	Agenda Item:	8(a)
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### CITY COUNCIL AGENDA ITEM

CITY OF SHORELINE, WASHINGTON

AGENDA TITLE: 2017-2022 Transportation Improvement Plan (TIP) Public Hearing

and Discussion

**DEPARTMENT:** Public Works

PRESENTED BY: Nytasha Sowers, Transportation Services Manager

ACTION: \_\_\_\_Ordinance \_\_\_\_Resolution \_\_\_\_Motion

\_X\_ Public Hearing \_\_X\_ Discussion

### PROBLEM/ISSUE STATEMENT:

In accordance with RCW 35.77.010, cities in Washington State are required to prepare and adopt a comprehensive six-year transportation plan. A city's six-year transportation improvement plan (TIP) must be consistent with its comprehensive plan transportation element. RCW 35.77.010 requires that the City hold at least one public hearing on the TIP and to submit the adopted TIP to the Washington State Secretary of Transportation. The Department of Transportation has historically accepted submittals of TIPs through the month of July.

The six-year TIP should include transportation projects, such as road and bridge work as well as new or enhanced bicycle or pedestrian facilities. In addition to local projects, the TIP should also identify projects and programs of regional significance for inclusion in the regional TIP. The City's TIP is used to secure federal funding for transportation projects as part of the Statewide Transportation Improvement Plan (STIP).

Through development of the TIP, the City prioritizes these funded and unfunded transportation needs utilizing information such as the City's Transportation Master Plan (TMP), safety and accident history, growth trends, traffic studies and the transportation element of the City's Comprehensive Plan. Project descriptions, costs, funding options and the project status are identified for each project in the TIP.

The TIP is prepared and presented to Council in advance of the Capital Improvement Plan (CIP). The policy direction provided through adoption of the TIP is used to identify transportation projects for inclusion in the CIP. The City Council will review the City's proposed six-year CIP as part of the 2017 budget process later this fall.

### **RESOURCE/FINANCIAL IMPACT:**

There is no financial impact associated with adoption of the TIP. The projects identified in the City's TIP are a combination of funded projects in the CIP, including projects that are partially funded or underfunded, as well as currently unfunded projects the City would like to undertake should funding become available. Listing projects in the TIP

makes them grant eligible, as most grant programs will not fund projects not included in a jurisdiction's TIP. The vast majority of projects included in the TIP are unfunded or partially funded. All of the funded programs are identified as underfunded, as additional work could be completed through these programs with supplemental funding.

### RECOMMENDATION

Council should hold the public hearing to receive comments on the proposed 2017-2022 TIP. No other formal Council action is required this evening on the TIP. Staff is requesting direction from Council regarding the policy topics outlined in this staff report as well as any revisions to the 2017-2022 TIP, including items that should be added or removed. Council is scheduled to adopt the 2017-2022 TIP on May 23, 2016.

Approved By: City Manager **DT** City Attorney **MK** 

### INTRODUCTION

In accordance with state law, the City is required to prepare a six-year Transportation Improvement Plan (TIP). The TIP identifies projects to meet local transportation needs, as well as projects of regional significance, such as the 145<sup>th</sup> Street corridor improvements. It also includes some on-going programs, including the curb ramp, gutter and sidewalk program and the traffic safety improvements program. The TIP identifies projects for all modes of transportation, including bicycles, pedestrians, vehicles and transit. Projects in the TIP can be funded and unfunded and the draft TIP includes the transportation projects identified in the preliminary 2017-2022 CIP. Including projects in the TIP improves the city's eligibility to secure grant funding.

### **DISCUSSION**

The TIP is prepared and presented to Council in advance of the CIP. The policy direction provided through adoption of the TIP is used to identify transportation projects for inclusion in the CIP. The City Council will review the City's proposed six-year CIP as part of the 2017 budget process later this fall.

The draft 2017-2022 TIP (Attachment A) utilizes last year's TIP as its foundation. Projects and programs included in the draft 2017-2022 TIP include high priority projects identified in the 2011 Transportation Master Plan (TMP) for safety and operations, bicycle and pedestrian projects. Staff also included several projects from the previous year's TIP which were identified by Council as important projects for the City.

Projects in the TIP are sorted into three categories:

- Funded Programs,
- Funded Projects, and
- Unfunded Projects.

Projects and programs that are partially funded or underfunded are included in the Funded categories. Generally, funded projects are those included in the City's 2016-2021 CIP. All projects identified for 2022 are unfunded, as capital needs in 2022 have not been discussed by Council at this time. Unfunded projects shown in 2017- 2019 are those that staff believe have favorable grant possibilities.

A project sheet for each project or program in the TIP has been developed and includes the following:

- <u>Scope/Narrative</u>: A description of the project or program including the specific work to be performed, project elements, project/program purpose and/or interagency coordination efforts.
- <u>Funding</u>: Identifies whether a project is funded, partially funded or unfunded and known funding sources.
- <u>Funding Outlook</u>: A description of the current funding projection for the project, including possible funding sources (when applicable).
- <u>Project Status</u>: Identifies Council goals achieved by each project, the stage of a project (such as design, environmental review or construction), previous years' work and expenditures and/or potential revenue sources for projects.

 <u>Purpose/Goals Achieved</u>: Identifies which of several purposes the project satisfies and/or general goals the project achieves, including Non-motorized Transportation; System Preservation; Growth Management; Improves Efficiency and Operations; Safety; Major Structures; Corridor Study; and/or Interjurisdictional Coordination.

Each project listed in the TIP includes an estimated project cost, the amount of funding secured or unsecured and the funding source for the six-year period covered by the TIP. If grant funding has been secured from a specific source, it is identified. The Funding Outlook section of each project sheet identifies the total project cost and any previous expenditure. Potential grant funding sources are also identified in this section. Projects listed that are necessary to accommodate growth and allow the City to maintain its adopted Levels of Service may be funded in part by transportation impact fees and are identified as such. The costs for projects programmed for the first three years of the TIP have been developed with a higher level of detail whereas those in the latter three years have been developed with less specificity, as the projects are generally less defined. The more specific costs for earlier projects help ensure that once the City receives a grant, the project is adequately funded.

A map showing the location of each project is also included as part of the TIP, as well as a summary matrix showing total costs for all projects. The total cost of all of the projects in the draft 2017-2022 TIP is \$287,341,363.

### **TIP Highlights**

The draft 2017-2022 TIP includes projects that are identified as high priorities in the TMP, as well as some projects from previous TIPs. Very few projects and programs are funded in the next six years; thus unfunded projects comprise the majority of the TIP. Many of these are large, corridor-wide projects comprised of smaller, individual components which, when combined, would result in a completed roadway. The individual components have been identified in a manner to show how a project might be phased over time. Some of the individual components are projects that were identified as needed to accommodate growth in the City's Transportation Master Plan. These components will be funded, in part, by impact fees.

As well, roadway improvements associated with the NW Richmond Beach Road corridor have been redefined in the 2017-2022 TIP in order to recognize that several corridor improvements proposed in previous TIPs would only be implemented if the Point Wells Development moves forward. These projects were developed by the City several years ago in response to the Draft Supplemental Environmental Impact Statement and Final Environmental Impact Statement for the Point Wells development. These projects are listed contingently and are only to be constructed upon execution of a Municipal or Development Agreement approving these projects as appropriate mitigation. These projects are now captured under the project title Point Wells Potential Mitigation projects.

Improvements to the intersection at 3<sup>rd</sup> Avenue NW and NW Richmond Beach Road and Richmond Beach Road Re-channelization have been called out as separate projects as they will address safety and multi-modal access issues whether or not Point

Wells is developed. The 3<sup>rd</sup> Avenue NW and NW Richmond Beach Road project has identified safety issues that will likely need to be addressed by the City in advance of the potential Point Wells development or if the City receives funding that could be leveraged with developer funding. The Richmond Beach Roadway Re-channelization will also provide vehicular safety and bike access improvements. Other unfunded projects, such as New Sidewalk Projects and Major Preservation Projects, include several individual projects that could also be designed and constructed individually.

### **Direction from Council**

In preparation for development of the CIP, staff is requesting Council direction on the following issues:

### **Grant Match**

As part of the 2014 budget process, the City established the Grant Match Fund, which provides funding that can be used as part of grant applications. Since many grant agencies require a match, this new program can be utilized to provide that match without having the funds allocated to specific projects. Once a grant is secured, the match funding is allocated to the specific project. It is anticipated that unused funds from this program would rollover annually and that the fund would be replenished periodically.

The table below outlines the revenues and expenditures for the Grant Match fund over the next three years. The final column lists the grant amount for which the match was utilized. Please note that the column year indicates when the grant funding must be obligated. It is anticipated that the funds will be spent over 1-2 years for each project.

Project/Revenue	Grant Agency/Program	2016	2017	2018	Balance	Grant Amount
Starting Balance (2014-2019 CIP)					\$300,000	
General Fund Contribution (2015-2020 CIP)		\$200,000			\$500,000	
Bike Implementation Plan	PSRC- STP/Non motorized Countywide	\$(86,768)			\$413,232	\$555,957
Echo Lake Safe Routes to School	WSDOT- Safe Routes to School	\$(10,000)			\$403,232	\$520,000
HSIP- Speed Radar Signs	WSDOT- City Safety	\$(943)			\$402,289	\$119,513
HSIP - Meridian and 155th Intersection	WSDOT- City Safety	\$(6,544)			\$395,745	\$352,385
N/NE145th Street (Aurora to I-5)	PSRC- STP Countywide	\$(660,954)			\$(265,209)	\$4,235,000
General Fund Contribution (2016-2021 CIP)		\$500,000	\$400,000		\$634,791	

Project/Revenue	Grant Agency/Program	2016	2017	2018	Balance	Grant Amount
Other Grants (other fund source for match)						
15th Ave NE Overlay <sup>1</sup>	PSRC- STP/Preservation/ Countywide					858,050
Meridian Ave N <sup>1</sup>	PSRC- STP/Preservation/ Countywide					523,325
175 <sup>th</sup> Design	PSRC- Contingency List		(553,500)			3,546,500

<sup>&</sup>lt;sup>1</sup> Included with Annual Surface Preservation Program

At the end of 2017, staff anticipates having a balance of approximately \$635,000 in the grant match fund. However as the City moves forward on large projects and seeks additional grants this fund will need to be replenished and/or maintained. Sources may include savings from the Aurora Corridor with Improvement Project or contributions from the General Fund.

Based on grant cycles and the timing of applications, staff is busy preparing grants for several projects, such as the 145<sup>th</sup> Corridor. Because the cost estimates and required match has not been completed, they are not included in the table above at this time.

The 175<sup>th</sup> Street design was awarded funds for design and environmental work by the PSRC King County STP grant program. Because this design is for projects needed to accommodate future growth, impact fees can be used to serve as the match. If the City does not have enough funding from impact fees collected at the time, it can "borrow" from other funds, which would then be replenished by impact fees collected in the future.

Staff recommends that Council continue to support the grant match fund so that staff has the flexibility to apply for and compete for outside funding to help with constructing our TMP projects.

### Funding of Future Corridor Studies

As Council and staff have discussed previously, grant funding agencies have specific conditions for what types and phases of projects they are willing to fund. They generally prefer to fund design and construction phases and will sometimes fund right-of-way acquisition. The planning phase of projects (including corridor studies) is typically the most difficult for which to secure funding. In order to better position Shoreline to secure grant funding, it is staff's recommendation that the City fund and complete one planning study per year and program the three listed below in the order identified for projects so that they are "design ready". In doing so, the City can develop a conceptual plan for these projects as well as reliable cost estimates. The plan and cost estimates will help in the development of competitive grant applications and provide a strong vision for the project going forward. For projects that require a study in order to clearly define their

needs, a planning level cost estimate for design, right-of-way acquisition and construction has been developed at this time.

The draft 2017-2022 TIP includes three projects for which a planning phase is needed. The planning phase is currently unfunded and the year in parentheses is staff's recommendation for the funding year:

- Project # 15: NE Perkins Way Improvements 10<sup>th</sup> Avenue NE to 15<sup>th</sup> Avenue NE (2017)
- Project # 16: 15<sup>th</sup> Avenue NE NE 172<sup>nd</sup> Street to NE 195<sup>th</sup> Street (2018)
- Project #23: N 165<sup>th</sup> Street and Carlyle Hall Road N Sidewalk and Intersection Safety (2021)

Due to its proximity to the NE 185<sup>th</sup> Street light rail station and the fact that it is the "missing link" in the northern Interurban-Burke Gilman connector (it is the only section for which a final design concept has not be determined nor construction funded), staff believes the Perkins Way improvement project is a strong contender for grant funding once a project design concept and cost estimates are complete.

### Community Renewal Area Projects

The TIP includes a list of "frontage" improvement projects surrounding the Community Renewal Area (CRA) at Aurora Square. Several of these are radical departures from the existing transportation infrastructure and create a new function for some of the roadways. The key improvement projects include:

- Redesign of the N 155<sup>th</sup> Street and Westminster Way intersection, including N 155<sup>th</sup> Street to Aurora Avenue N:
- Redesign of Westminster Way between N 155<sup>th</sup> Street and the west Interurban Pedestrian Bridge landing; and
- Redesign of N 160<sup>th</sup> Street from Aurora Avenue N to Greenwood Avenue N.

A preliminary design of Westminster Way from Aurora to 155<sup>th</sup> is currently funded in the 2016-2021 CIP. However, there is no funding strategy currently in place for paying for these improvements. Options for funding these projects, which will include a recommendation on City share versus developer/property owner share and the potential for a latecomers program, will be discussed in the future. Staff recommends that once a funding strategy is in place, the City should take the lead in developing a design for the N 155<sup>th</sup> Street and Westminster Way intersection, including the segment of N 155<sup>th</sup> Street from Westminster Way to Aurora Avenue N.

### Advanced Acquisition of Right-of-way

For many projects, such as the N/NE 145<sup>th</sup> Street corridor, widening of the right-of-way in the future may be needed. The City is limited in its authority to require dedication of right-of-way in conjunction with future development, and developers are often reluctant to limit their projects without compensation for unused land. By establishing a fund to allow for advance acquisition of right-of-way in circumstances of this kind, the City can ensure that structures are located outside of the area needed for future roadway widening projects. This will result in future savings, as the City will not need to retrofit or purchase buildings located in the potential future widened area.

### **Utility Undergrounding**

Undergrounding of overhead utility lines in conjunction with major capital projects is addressed in the Shoreline Municipal Code. This is a very complicated issue, with both benefits and drawbacks that must be considered. Shoreline's requirements for utility undergrounding associated with City projects are a challenge to understand and administer. The City's franchise agreements with utility providers also influence the costs and timelines associated with undergrounding. Most projects included in the draft 2017-2022 TIP do not include undergrounding costs; however, it is anticipated that undergrounding will be a desired element of some projects and will need to be considered as they proceed through planning and design.

The City chose to underground overhead utilities as part of the North City and Aurora Corridor Improvement projects. Seattle City Light provided the upfront funding for these projects and is recovering these costs by including a charge on the utility bills of City of Shoreline customers.

Public Works staff and the City Attorney's Office are examining this issue and plan to return to Council for additional discussion later this year.

### **COUNCIL GOALS ADDRESSED**

This project addresses Council Goal 2, "Improve Shoreline's utility, transportation, and environmental infrastructure." By identifying and developing a plan for multi-modal transportation improvements, the City is working to preserve and enhance the infrastructure. This project also addresses Council Goal 5: "Promote and enhance the City's safe community and neighborhood programs and initiatives" by funding the Traffic Safety Improvements program.

### RESOURCE/FINANCIAL IMPACT

There is no financial impact associated with adoption of the TIP. The projects identified in the City's TIP are a combination of funded projects in the CIP, including projects that are partially funded or underfunded, as well as currently unfunded projects the City would like to undertake should funding become available. Listing projects in the TIP makes them grant eligible, as most grant programs will not fund projects not included in a jurisdiction's TIP. The vast majority of projects included in the TIP are unfunded or partially funded. How to address under or partially funded projects should be considered in the development of the 2017-2022 CIP. Direction received from the Council in consideration of the TIP will greatly assist staff in the development of the CIP.

### RECOMMENDATION

Council should hold the public hearing to receive comments on the proposed 2017-2022 TIP. No other formal Council action is required this evening on the TIP. Staff is requesting direction from Council regarding the policy topics outlined in this staff report as well as any revisions to the 2017-2022 TIP, including items that should be added or removed. Council is scheduled to adopt the 2017-2022 TIP on May 23, 2015.

# **ATTACHMENTS**

Attachment A: Draft 2017-2022 Transportation Improvement Plan

# City of Shoreline 2017-2022 Transportation Improvement Plan

### 1. What is the Six-Year Transportation Improvement Plan (TIP)?

The City of Shoreline Six-Year Transportation Improvement Plan (TIP) is a short-range planning document that is updated annually based upon needs and policies identified in the City's Comprehensive Plan and Transportation Master Plan. It identifies Shoreline's current needed transportation projects and programs for the next six years. Some projects identified in the TIP are significant enough in nature that they will take longer than six years to complete.

### 2. What is included in the TIP?

A project sheet for each project or program in the TIP has been developed and includes the following:

- Scope/Narrative: A description of the project or program including the specific work to be performed, project elements, project/program purpose and/or interagency coordination efforts.
- Funding: Identifies whether a project is funded, partially funded or unfunded and known funding sources.
- Funding Outlook: A description of the current funding projection for the project, including possible funding sources (when applicable).
- Project Status: Identifies Council goals achieved by each project, the stage of a project (such as design, environmental review or construction), previous years' work and expenditures and/or potential revenue sources for projects.
- Purpose/Goals Achieved: Identifies which of several purposes the project satisfies and/or general goals the project achieves including Non-motorized Transportation; System Preservation; Growth Management; Improves Efficiency and Operations; Safety; Major Structures; Corridor Study; and/or Interjurisdictional Coordination.

Projects in the TIP are sorted into three categories: Funded Programs, Funded Projects, Unfunded Projects. Projects and programs that are underfunded or partially funded are included in the funded categories. Generally, funded projects are those included in the City's 2017-2022 Capital Improvement Plan. All projects and programs identified for 2021 are unfunded. All of the funded programs are identified as underfunded, as additional work could be completed through these programs with supplemental funding. The TIP also identifies the potential for new projects or programs that may arise from current City planning efforts in the Emerging Projects section. The final section provides a summary of projects included in the 2017-2022 TIP that are scheduled for completion in 2016.

### 3. Project Costs and Funding

Each project listed in the TIP includes an estimated cost, the amount of funding secured or unsecured and the funding source(s) for the six year period covered by the TIP. Existing and new project and program costs need to cover all phases of a project (described below), including the staff time necessary to administer them. If grant funding has been secured from a specific source, it is identified. The Funding Outlook section of each project sheet identifies the total project cost and any previous expenditures. Potential grant funding sources are also identified in this section.

Projects listed that are necessary to accommodate growth and allow the City to maintain its adopted Levels of Service may be funded in part by transportation impact fees. The costs for projects programmed for the first three years of the TIP have been developed with a higher level of detail whereas those in the latter three years have been developed with less specificity, as the projects are generally less defined. Unless otherwise noted, project costs do not include the costs for placing overhead utilities underground.

### 4. Developing the TIP

The annual TIP update starts with the previously adopted TIP. Projects in the previously adopted TIP are reviewed and projects that have been completed, or because of changing conditions, are no longer needed are removed from the TIP. Existing projects may also be updated based upon completed studies, refined project scopes or revised cost estimates. The remaining projects carried over from the previous TIP are reviewed for changes to cost estimates, project funding, schedule, or scope during the update process to ensure that the best information is represented in the TIP.

New projects are generated from many sources, including the City's adopted Transportation Master Plan (TMP), Comprehensive Plan, Council priorities, identification of new issues or deficiencies, response to growth, accident locations or the potential to secure grant funding. The City may use tools such as pavement management rating, analysis of accident data and transportation modeling to help identify potential new projects. Potential new projects undergo a review of scope, priority, schedule and cost analysis.

Updated projects from the previous TIP and new projects are then used to create a draft TIP project list. The phasing and funding of these projects in the draft TIP is based on an evaluation of project priority compared with priorities laid out in the TMP and Comprehensive Plan, commitments to projects and programs that are already underway, secured grants, partnerships the City has entered into with other jurisdictions and agencies and new opportunities that arise to leverage local transportation funding in combination with other funding sources.

Once the draft TIP has been developed, a public hearing is held to provide an opportunity for the community comment. Based on the results of the public hearing and comments from the Shoreline City Council a final version of the TIP is developed. This final version is then adopted by the City Council.

### 5. Emerging Projects

New transportation projects are often generated from significant planning efforts for new or major redevelopments or land use subarea planning. In 2012, the City designated the Aurora Square area as a Community Renewal Area (CRA) and subsequently adopted a vision and plan for its redevelopment. Transportation improvements will be an important component in supporting redevelopment. The City has developed and adopted a Programmatic EIS to address the transportation impacts associated with redevelopment of the site. It is expected that redevelopment of the CRA will occur over many years, continuing beyond the six year time frame addressed in this TIP.

In anticipation of the commencement of light rail service in 2023, the City is planning for land use changes around the future stations located in Shoreline at NE 145<sup>th</sup> Street and NE 185<sup>th</sup> Street. Higher residential densities and a mix of land use types near the stations, as well as transit users

traveling to the stations will create an increased demand for multi-modal transportation facilities. The City of Shoreline is working with Sound Transit to develop multimodal access improvements to these stations as well as the potential for a multi-use trail along the rail track alignment between the 145<sup>th</sup> light rail station to the 195<sup>th</sup> pedestrian bridge.

Transportation impacts and needs associated with future land use changes as well as the necessary solutions to resolve them are outlined in the subarea plans. The redevelopment of the station areas is expected to occur over many decades. The projects needed to accommodate growth in the station areas will be incorporated into future TIPs.

### 6. Relationship of the TIP to other Transportation Documents

### A. Six-Year Capital Improvement Plan

Once adopted, the TIP helps to guide funding and implementation priorities during the development of the transportation portion of the Capital Improvement Plan (CIP). The CIP is a six-year financial plan addressing capital needs and is updated along with the development of the City's operating budget. The CIP shows the City-funded portion of projects and is constrained by current budget forecasts, whereas the TIP shows the complete project list, including unfunded projects and programs. The first year of the CIP is adopted as part of the annual budget

### B. Transportation Master Plan

The City of Shoreline's Transportation Master Plan (TMP) is the long-range blueprint for travel and mobility, describing a vision for transportation that supports the City's adopted Comprehensive Plan. The TMP provides guidance for public and private sector decisions on local and regional transportation investments, including short-, mid-, and long-range transportation and related land-use activities. In this way, the City can assess the relative importance of projects and schedule their planning, engineering and construction as growth takes place and the need for the facilities and improvements is warranted. It also establishes a prioritization of the projects to be included in future capital improvement plans. The TMP covers all forms of personal travel – walking, bicycling, transit and automobile.

### C. State and Federal Requirements

State law requires that each city develop a local TIP and that it be annually updated (RCW 35.77.010). It is also requires that projects be included in the TIP in order for cities to compete for transportation funding grants from most federal and state sources. Federal grant funded and regionally significant projects from the first three years of the City's TIP are included in the Regional TIP, which is assembled by the Puget Sound Regional Council for King, Kitsap, Pierce, and Snohomish Counties. The Regional TIPs from around the State are then combined to form the State TIP, which is approved by the Governor and then submitted to the Federal Highway Administration and Federal Transit Authority for their review and approval.

### **6. Funding Challenges**

As is the case for most jurisdictions, the need for transportation improvements in Shoreline greatly outweighs the City's ability to fund them in both the short and long term. In addition to major capital projects such as intersection or corridor improvements, there is an on-going need to

maintain the existing system. This includes repair, maintenance and preservation work, such as Bituminous Surface Treatment (BST) or overlays, upgrades and repairs to traffic signals, installation of new street lights and curb ramp upgrades. It is difficult to estimate the annual backlog or degree to which the City's transportation program is underfunded, as new projects are identified annually and maintenance is a continuous necessity. The unfunded projects and programs included in this six year TIP (not including the unfunded portions of partially funded projects) total \$122,902,153.

The City of Shoreline funds transportation capital projects from the General Fund, Real Estate Excise Tax (REET), Transportation Benefit District (TBD) and grant revenue from local, state and federal governments. Because some of these revenue sources are so closely tied to the health of the economy they can be somewhat unpredictable, making it challenging for the City to plan for transportation improvements with assurance that funding will be available.

Historically the largest sources of funding for Shoreline's transportation programs and projects have been grants. Funding for transportation projects is available from federal, state and local resources. Each funding source has specific rules and guidelines about what types of projects they will fund, how much of a project will be funded and timelines for expenditure of funds. Most grant programs require a funding match, which means that the City must also contribute funding to the cost of a project. The granting agency may also have restrictions about the source of the funding match. For example, a state funded grant might be restricted from having another state funded grant serve as the match. Funding programs for bicycle and pedestrian transportation projects are very limited, especially in comparison to funding for highway and roadway projects. Quite often, granting agencies prefer to fund construction of projects rather than planning, design or environmental work. Having projects fully designed and "shovel ready" improves their ability to compete for funding. The competitive nature of grant funding and the specific requirements associated with available grants narrow the opportunities for many of the City's high priority projects to obtain outside funding.

### 7. Lifecycle of a Project

Depending upon the size and/or degree of complexity associated with a project, it can take several years to complete. For example, the three mile Aurora Corridor Improvement Project scheduled for completion in 2016, began the initial planning work in 1997. Large projects may be divided into several smaller projects in order to manage the project more effectively, comply with grant funding requirements or minimize inconvenience to the community during construction. Throughout all phases of a project, the City is committed to maintaining open communications with the community. The process to develop projects generally includes the following steps.

*Planning and Alternatives Development* – During this phase, conceptual ideas for a project are identified, evaluated and narrowed, sometimes to a single option. Citizens, community organizations, neighboring jurisdictions and other stakeholders help shape the project. Public meetings provide updates to the community and help the City gather feedback.

Preliminary Design and Environmental Review – This phase identifies potential environmental impacts of the project alternative(s). The level of review and documentation depends on the scope of the project and its potential for environmental impacts. An Environmental Impact Statement (EIS) is prepared for large projects with potentially significant impacts. Development of a State Environmental Policy Act (SEPA) checklist may be prepared for projects not requiring an EIS. A

similar review under the National Environmental Policy Act (NEPA) is required for projects that receive federal funding. The project's design moves from conceptual to preliminary as initial engineering begins.

### During this phase:

- If required, a SEPA checklist or Draft EIS is published followed by a public comment period. Responses to those comments are found in the Final EIS.
- Preliminary design is completed.
- The City selects the project that will eventually be built.

*Final Design and Property Acquisition* – In this phase, architects and engineers define what the project will look like as well as the technical specifications for the project. Field work is performed including testing soil conditions and ground water levels, surveying, and locating utilities. Additionally, the City acquires any necessary private property and easements. This phase is often referred to as "Projects, Specifications and Estimate (PS and E)".

*Construction* – Construction time varies widely from project to project. The City balances the need to complete the project on time and on budget while minimizing construction impacts to the community.

Unforeseen site conditions, weather, design corrections and the complexity of a project are some of the factors that can influence the schedule. Construction schedules can also be affected by environmental restrictions, such as permissible timeframes to work in fish bearing waters.

### **Contact Information**

For additional information, contact Nytasha Sowers, Transportation Services Manager, 206.801.2481, <a href="mailto:nsowers@shorelinewa.gov">nsowers@shorelinewa.gov</a>.

### FUNDED PROGRAMS (FULLY OR UNDERFUNDED)

- 1. Curb Ramp, Gutter and Sidewalk Program (underfunded)
- 2. Traffic Safety Improvements (underfunded)
- 3. Annual Road Surface Maintenance Program (underfunded)
- 4. Traffic Signal and Intelligent Transportation System (ITS) Improvements (underfunded)

### FUNDED PROJECTS (FULLY OR PARTIALLY)

- 5. 25<sup>th</sup> Avenue NE Sidewalk
- 6. 145<sup>th</sup> Street (SR 523) Corridor Improvements (partially)
- 7. Echo Lake Safe Routes to School
- 8. Bicycle System Plan Implementation Minor Improvements
- 9. Citywide Radar Speed Signs
- 10. Meridian Avenue N and N 155th Street Intersection Phase Changes
- 11. N/NE 175<sup>th</sup> Street Corridor Improvements (partially)
- 12. N/NE 185<sup>th</sup> Street Corridor Improvements (partially)
- 13. Richmond Beach Road Rechannelization

### **UNFUNDED PROJECTS**

- 14. Community Renewal Area (CRA) Roadway Improvements
- 15. NE Perkins Way Improvements 10<sup>th</sup> Avenue NE to 15<sup>th</sup> Avenue NE
- 16. 15<sup>th</sup> Avenue NE NE 172<sup>nd</sup> Street to NE 195<sup>th</sup> Street
- 17. Fremont Avenue N N 175<sup>th</sup> Street to N 185<sup>th</sup> Street
- 18. Point Wells Potential Mitigation Projects
- 19. Major Pavement Rehabilitation Projects
- 20. Meridian Avenue N N 145th Street to N 205th Street
- 21. Aurora Avenue N at N 145<sup>th</sup> Street Dual Left Turn Lane
- 22. N 165<sup>th</sup> Street and Carlyle Hall Road N Sidewalk and Intersection Safety
- 23. N 152<sup>nd</sup> Street and Ashworth Avenue N Intersection Improvements
- 24. Ballinger Way NE 205th St to 19th Ave NE Access Control Preliminary Design
- 25. N 185th Street and Linden Avenue N Intersection Improvements
- 26. 3<sup>rd</sup> Ave NW and NW Richmond Beach Intersection Improvements
- 27. New Sidewalk Projects

### **EMERGING PROJECTS**

Community Renewal Area Projects Light Rail Station Area Improvements Transit Service Integration Plan

### PROJECT SCHEDULED FOR SUBSTANTIAL COMPLETION IN 2016

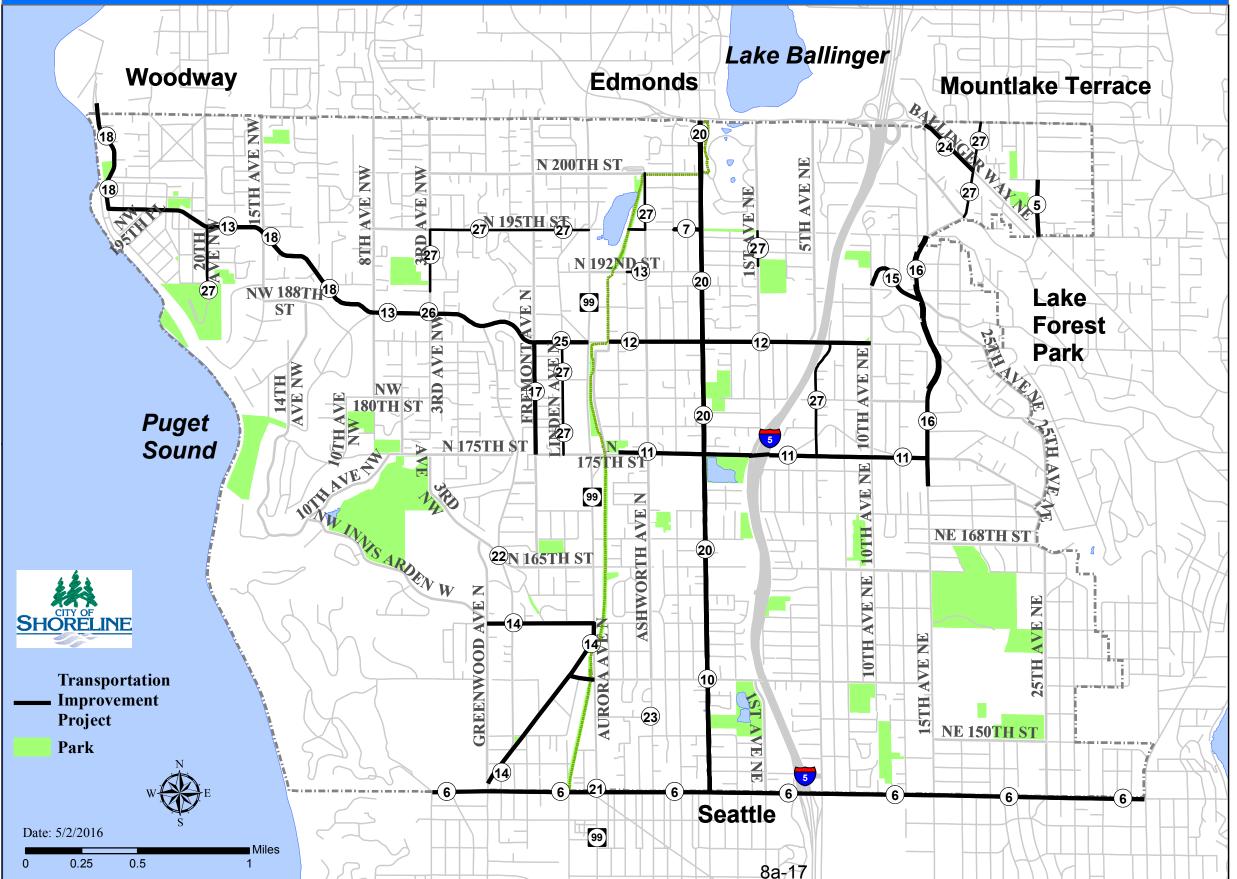
Interurban/Burke-Gilman Connectors 145<sup>th</sup> Street Corridor Study 10<sup>th</sup> Avenue NW Bridge Rehabilitation Aurora Ave N, 192nd – 205th Streets Annual Road Surface Maintenance Program

- Meridian Ave N overly
- 15<sup>th</sup> Ave NE overlay

# Attachment A

		2017		2018		2019		2020	2021		2022			2017-2022
Project		Estimate		Estimate		Estimate		Estimate		Estimate	Estimate			Total
FUNDED PROGRAMS (FULLY OR PARTIALLY)														
Curb Ramp, Gutter & Sidewalk Program	\$	153,000	_	153,000	_	200,000	_	200,000	_	200,000		200,000		1,106,000
Traffic Safety Improvements	\$	157,881	_	160,775		163,814		167,005		167,005		167,005		983,485
Annual Road Surface Maintenance Program	\$	1,000,000		1,100,000		1,200,000		1,200,000	_	1,200,000		1,200,000		6,900,000
Traffic Signal and Intelligent Transportation System (ITS) Improvements	\$	116,000	\$	122,000	\$	128,000	\$	135,000	\$	150,000	\$	150,000	\$	801,000
FUNDED PROJECTS (FULLY OR PARTIALLY)	_		_		_	25.000	_		_		_		_	505.000
25th Avenue NE Sidewalk	\$	60,000	_	510,000	_	25,000	<u> </u>		\$		\$	-	\$	595,000
145 <sup>th</sup> Street (SR 523) Corridor Improvements	\$	2,448,000		2,448,000	\$	2,000,000	\$	5,000,000		20,000,000	\$	20,000,000	\$	51,896,000
Echo Lake Safe Routes to School	\$	419,000		-	\$	-	\$	-	\$	-	\$	-	\$	419,000
Bicycle System Plan Implementation – Minor Improvements	\$	585,725		-	\$	-	\$	-	\$	-	\$	-	\$	585,725
Citywide Radar Speed Signs	\$	121,000		-	\$	-	\$	-	\$	-	\$	-	\$	121,000
Meridian Avenue N and N 155th Street Intersection Phase Changes	\$	55,000		,	\$	-	\$	-	\$	-	\$	-	\$	359,000
N/NE 175 <sup>th</sup> Street Corridor Improvements	\$	2,820,000		2,819,000	\$	-	\$	-	\$	-	\$	77,156,000	\$	82,795,000
N/NE 185 <sup>th</sup> Street Corridor Improvements	\$	600,000		-	\$	-	\$	-	\$	8,539,000	\$	8,539,000	\$	17,678,000
Richmond Beach Road Rechannelization	\$	200,000	\$	-	\$	-	\$	-	\$	-	\$	-	\$	200,000
UNFUNDED PROJECTS														
Community Renewal Area (CRA) Roadway Improvements	\$	477,000	\$	4,650,000	\$	700,000	\$	700,000	\$	-	\$	14,500,000	\$	21,027,000
NE Perkins Way Improvements – 10 <sup>th</sup> Avenue NE to 15 <sup>th</sup> Avenue NE	\$	-	\$	-	\$	-	\$	3,681,540	\$	-	\$	-	\$	3,681,540
15 <sup>th</sup> Avenue NE – NE 172 <sup>nd</sup> Street to NE 195 <sup>th</sup> Street	\$	-	\$	-	\$	-	\$	6,176,793	\$	-	\$	-	\$	6,176,793
Fremont Avenue N – N 175 <sup>th</sup> Street to N 185 <sup>th</sup> Street	\$	-	\$	-	\$	-	\$	6,292,720	\$	-	\$	-	\$	6,292,720
Point Wells Potential Mitigation Projects	\$	-	\$	-	\$	-	\$	-	\$	-	\$	45,490,000	\$	45,490,000
Major Pavement Rehabilitation Projects	\$	2,000,000	\$	2,000,000	\$	2,000,000	\$	2,000,000	\$	2,000,000	\$	2,000,000	\$	12,000,000
Meridian Avenue N Corridor Improvements	\$	992,000	\$	-	\$	-	\$	-	\$	-	\$	9,117,000	\$	10,109,000
Aurora Avenue N at N 145 <sup>th</sup> Street Dual Left Turn Lane	\$	-	\$	-	\$	-	\$	-	\$	-	\$	4,700,000	\$	4,700,000
N 165 <sup>th</sup> Street and Carlyle Hall Road N Sidewalk and Intersection Safety	\$	-	\$	-	\$	-	\$	-	\$	-	\$	2,482,000	\$	2,482,000
N 152 <sup>nd</sup> Street and Ashworth Avenue N Intersection Improvements	\$	-	\$	-	\$	-	\$	25,000	\$	320,000	\$	-	\$	345,000
Ballinger Way - NE 205th St to 19th Ave NE Access Control Preliminary Design	\$	-	\$	200,000	\$	-	\$	-	\$	-	\$	-	\$	200,000
N 185th Street and Linden Avenue N Intersection Improvements	\$	-	\$	-	\$	530,100	\$	-	\$	-	\$	-	\$	530,100
3rd Ave NW and NW Richmond Beach Rd Intersection Improvements	\$	-	\$	-	\$	-	\$	-	\$	-	\$	2,320,000	\$	2,320,000
New Sidewalk Projects	\$	172,000	\$	1,227,000	\$	1,519,000	\$	590,000	\$	2,029,000	\$	2,011,000	\$	7,548,000
Total Expenditures by Year	\$	12,376,606	\$	15,693,775	\$	8,465,914	\$	26,168,058	\$	34,605,005	\$	190,032,005	\$	287,341,363

# City of Shoreline Transportation Improvement Program 2017 to 2022



### Attachment A

# **Project Location**

- 5. 25th Avenue NE Sidewalk
- **6.** 145th Street (SR 523) Corridor Improvements
- 7. Echo Lake Safe Routes to School
- **10.** Meridian Avenue N and N 155th Street Intersection Phase Changes
- 11. N/NE 175th Street Corridor Improvements
- **12.** N/NE 185th Street Corridor Improvements
- 13. Richmond Beach Road Rechannelization
- **14.** Community Renewal Area (CRA) Roadway Improvements
- **15.** NE Perkins Way Improvements 10th Avenue NE to 15th Avenue NE
- **16.** 15th Avenue NE NE 172nd Street to NE 195th Street
- **17.** Fremont Avenue N N 175th Street to N 185th Street
- 18. Point Wells Potential Mitigation Projects
- **20.** Meridian Avenue N N 145th Street to N 205th Street
- **21.** Aurora Avenue N at N 145th Street Dual Left Turn Lane
- **22.** N 165th Street and Carlyle Hall Road N Sidewalk and Intersection Safety
- **23.** N 152nd Street and Ashworth Avenue N Intersection Improvements
- **24.** Ballinger Way NE 205th Street to 19th Avenue NE Access Control Preliminary Design
- **25.** N 185th Street and Linden Avenue N Intersection Improvements
- **26.** 3rd Ave NW and NW Richmond Beach Intersection Improvements
- 27. New Sidewalk Projects

### **Citywide Improvements**

- 1. Curb Ramp, Gutter and Sidewalk Program
- **2.** Traffic Safety Improvements
- 3. Annual Road Surface Maintenance Program
- 4. Traffic Signal and Intelligent

Transportation System (ITS) Improvements

- **8.** Bicycle System Plan Implementation Minor Improvements
- 9. Citywide Radar Speed Signs
- 19. Major Pavement Rehabilitation Projects

# FUNDED PROGRAMS (FULLY OR PARTIALLY)

### 1. Curb Ramp, Gutter and Sidewalk Program

# Scope / Narrative

The ongoing Curb Ramp, Gutter and Sidewalk Program includes replacement of curb ramps that do not comply with the Americans with Disabilities Act (ADA) standards; design and construction of new, ADA compliant curb ramps in locations where none exist; and repairing and replacing existing concrete gutters and sidewalks damaged by tree roots, cracking or settlement. In a related project, the City is undertaking a City-wide inventory of all pedestrian facilities in the public right of way as a step toward an ADA compliance plan. The City-wide inventory will help to determine priorities for this capital program as well.

Fundin	Funding								
		PAR	TIALLY FUN	DED		UNFUNDED			
FUNDING SOURCE	2017 Estimate	2018 Estimate	2019 Estimate	2020 Estimate	2021 Estimate	2022 Estimate	2017-2022 Total		
Roads Capital	\$ 153,000	\$ 153,000	\$ 200,000	\$ 200,000	\$ 200,000	\$ 200,000	\$ 1,106,000		

# **Funding Outlook**

This program is currently funded through an annual transfer from the General Fund. It is underfunded, as it is known that additional work is needed to fully maintain the existing sidewalks. It is unknown how much additional funding is needed at this time. A full inventory is required in order to accurately assess the need and an inventory and condition assessment is funded in the 2015 budget. Additionally, new requirements for curb ramp upgrades associated with projects such as traffic signal improvements and pavement overlays continue to increase the costs associated with this program. It is estimated this program is less than 50% funded. Future TIPs may include this information.

# **Project Status**

Annual program, 2017-2022. This program helps to implement City Council Goal 2: Improve Shoreline's utility, transportation, and environmental infrastructure.

Purpo	Purpose / Goals Achieved									
<b>V</b>	Non-motorized System Preservation		Major Structures Interjurisdictional Coordination							
	Improves Efficiency & Operations Safety		Growth Management Corridor Study							
<b>V</b>	Safety		Corridor Study							

### 2. Traffic Safety Improvements

# Scope / Narrative

This program addresses priority traffic and pedestrian safety concerns on both arterial and local streets. The primary purpose of this program is to design and implement small spot improvement projects to improve safety and enhance the livability of neighborhoods. Projects include traffic calming devices (speed humps, radar speed display signs, etc), capital infrastructure (curb ramps, sidewalks, etc) and operational changes (bike lanes, turn lanes, school signing, etc).

Fundin	g						
		PAR	TIALLY FUN	DED		UNFUNDED	
FUNDING	2017	2018	2019	2020	2021	2022	2017-2022
SOURCE	Estimate	Estimate	Estimate	Estimate	Estimate	Estimate	Total
Roads Capital	\$ 157,881	\$ 160,775	\$ 163,814	\$ 167,005	\$ 167,005	\$ 167,005	\$ 983,485

# **Funding Outlook**

This program is currently underfunded. Additional improvements that could be implemented with supplemental funding include street lighting, ADA compliance upgrades, small sidewalk projects, and projects identified in the Neighborhood Traffic Action Plans. Addressing all the projects identified as high priority by residents in the traffic plans is estimated at \$37.6 million.

# **Project Status**

Annual program, 2017-2022. This program helps to implement City Council Goal 2: Improve Shoreline's utility, transportation, and environmental infrastructure and Goal 5: Promote and enhance the City's safe community and neighborhood initiatives and programs.

Purpose / Goals Achieved										
✓ <b>'</b>	Non-motorized		Major Structures							
	System Preservation		Interjurisdictional Coordination							
	Improves Efficiency & Operations		Growth Management							
✓ <u>9</u>	Safety		Corridor Study							

## 3. Annual Road Surface Maintenance Program

# Scope / Narrative

The City's long-term road surface maintenance program is designed to maintain the City's roadway system at the highest Pavement Condition Index (PCI) rating within the limits of available funding. PCI is recalibrated annually and re-assessed City-wide at 5 year intervals. Roadway maintenance is accomplished by using a combination of asphalt concrete overlays and bituminous surface treatment (BST), both of which are preventative maintenance techniques. Asphalt overlays are used to maintain the structure of arterial streets, which have higher traffic volumes and higher wear, and BST is employed on residential streets, which have lower traffic volumes, lower wear and, if well maintained, a generally longer life span. These techniques typically extend pavement life between 10 and 15 years. Each year, the City identifies streets that require maintenance through this program. To maximize the impact of available funding and staff and coordinate with grant funding cycles, the City alternates each year between overlays and BST. As part of this program, the City renews pavement markings, traffic channelization and signs.

Fundir	Funding						
		UNFUNDED					
FUNDING SOURCE	2017 Estimate	2018 Estimate	2019 Estimate	2020 Estimate	2021 Estimate	2022 Estimate	2017-2022 Total
Roads Capital	\$ 1,000,000	\$ 1,100,000	\$ 1,200,000	\$ 1,200,000	\$ 1,200,000	\$ 1,200,000	\$ 6,900,000
Federal - STP							\$ -
PROJECT TOTAL	\$ 1,000,000	\$ 1,100,000	\$ 1,200,000	\$ 1,200,000	\$ 1,200,000	\$ 1,200,000	\$ 6,900,000

# **Funding Outlook**

This program is currently funded at approximately 50 percent.

# **Project Status**

Purpos	Purpose / Goals Achieved									
<b>✓</b>	Non-motorized		Major Structures							
<b>✓</b>	System Preservation		Interjurisdictional Coordination							
<b>✓</b>	Improves Efficiency & Operations		Growth Management							
<b>✓</b>	Safety		Corridor Study							

### 4. Traffic Signal and Intelligent Transportation System (ITS) Improvements

# Scope / Narrative

The maintenance of safe and efficient traffic signals is an important part of the City's responsibility to all users of the transportation network including drivers, pedestrians and bicyclists. New traffic signal technology provides superior functionality compared to older, obsolete equipment. Intersection improvements are one of the most cost effective ways to improve traffic flow while effective maintenance and operation of traffic signals can increase safety and extend the life of the signal, decreasing overall program costs. Examples of signalized intersection improvements include, but are not limited to:

- New controllers which can accommodate transit signal priority, dynamic emergency vehicle preemption and coordination of traffic signals along a corridor for increased efficiency.
- Functional detection to ensure signals operate dynamically, based on actual user demand.
- Back up battery systems to keep signals operational during power outages.
- Communication to a central system for efficient signal timing changes, troubleshooting, and reporting.
- Accessible Pedestrian Signals and countdown signal heads for improved safety and ADA compliance.

The ability to keep traffic signals operating and vehicles moving is a key part of Shoreline's Emergency Management Plan.

Intelligent Transportation Systems (ITS) is the application of advanced information and communications technology to transportation. ITS helps roadway users make more informed decisions about travel routes thereby improving efficiency, safety, productivity, travel time and reliability. Elements of an ITS system can include variable message signs, license plate or bluetooth/wi-fi readers, real-time traffic flow maps, traffic monitoring cameras, and communication between traffic signals and a Traffic Management Center (TMC). Existing City ITS components include fiber optic lines, traffic monitoring cameras, and a central signal system for signals along Aurora. The City began operation of a TMC in 2013 to help manage these systems which may be expanded or modified as the City's ITS system grows. This project will fully integrate all City signals, with ITS improvements where appropriate, including traffic monitoring cameras. Future expansions of the system may include coordination with traffic signals in Seattle, cities to the north, and those operated by WSDOT.

Fundin	Funding						
		PAR	TIALLY FUN	DED		UNFUNDED	
FUNDING SOURCE	2017 Estimate	2018 Estimate	2019 Estimate	2020 Estimate	2021 Estimate	2022 Estimate	2017-2022 Total
Roads Capital	\$ 116,000	\$ 122,000	\$ 128,000	\$ 135,000	\$ 150,000	\$ 150,000	\$ 651,000

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# **Funding Outlook**

The annual funding for this project is not enough to completely rebuild two traffic signals each year, as a traffic signal rebuild typically costs \$60,000. While some signal upgrades were deferred due to the recession, the city still remains on schedule to rebuild an average of two signals each year, in part due to grant-funded CIP projects, such as the Aurora Corridor Improvement Project. The program is currently underfunded by approximately \$20,000 annually to stay on schedule for rebuilding two traffic signals each year. An additional \$750,000 is needed to complete the ITS components of this project. The ITS portion of the project is currently unfunded as well. The City currently does not have a good inventory of signal needs, however, it is expected that this inventory will be completed in 2015.

# **Project Status**

Purpose / Goals Achieved									
	Non-motorized System Preservation Improves Efficiency & Operations Safety		Major Structures Interjurisdictional Coordination Growth Management Corridor Study						

# FUNDED PROJECTS (FULLY OR PARTIALLY)

### 5. 25th Avenue NE Sidewalk

# Scope / Narrative

This project will extend sidewalks along the west side of 25th Ave NE from NE 195th PI to NE 200th St. Sidewalk will be installed in front of the proposed Public Works Maintenance Facility and Bruggers Bog Park. Intermittent on-street parking will also be installed.

Fundin	Funding									
			FUN	DED						
FUNDING SOURCE	2017 Estimate	2018 Estimate	2019 Estimate	2020 Estimate	2021 Estimate	2022 Estimate	2017-2022 Total			
Roads Capital	\$ 60,000	\$ 510,000	\$ 25,000				\$ 595,000			

# **Project Status**

Purpos	Purpose / Goals Achieved										
✓	Non-motorized		Major Structures								
	System Preservation		Interjurisdictional Coordination								
	Improves Efficiency & Operations		Growth Management								
<b>V</b>	Safety		Corridor Study								

### 6. 145th Street (SR 523) Corridor Improvements

# Scope / Narrative

145th Street (SR 523) serves as the boundary between the Cities of Shoreline and Seattle. The right-of-way is not within the City's jurisdiction. The southern half (eastbound lanes) is in the City of Seattle and the northern half (westbound lanes) is in unincorporated King County. Seattle classifies 145th Street as a Principal Arterial from Greenwood Ave N to Bothell Way NE (SR-522). From February 2015 to April 2016 the City of Shoreline undertook a multi-modal study of the corridor from 3rd Avenue NW to SR-522 (Bothell Way/ Lake City Way). The study included an evaluation of safety, traffic, transit and non-motorized needs resulting from anticipated changes in the area including growth and the siting of a new light rail station.

The study identified a preferred design concept to guide future design and engineering work on the corridor. This draft preferred concept was developed in partnership with the City of Seattle, the Washington State Department of Transportation, King County, Metro Transit and Sound Transit.

Basea on the preferred design concept developed through the 145th Multi-modal Corridor Study corridor improvements will include:

- Improving vehicular capacity and safety, increasing transit speed and reliability, and improving non-motorized accessibility to I-5 and the future light rail station.
- Upgrading of the existing non-ADA compliant sidewalks and constructing new sidewalk for a continuous pedestrian system along the corridor.
- Installing illumination and landscaping along the corridor.
- Making bus stop improvements.
- Upgrading the existing stormwater management system to improve stormwater detention and treatment.

Funding for final design and environmental review of the I-5 to Aurora (State Route 99) segment has been secured. Preliminary engineering and environmental work for the segment from Interstate 5 to Aurora (State Route 99) will proceed in mid 2016.

Funding for design and environmental review for the section from SR-522 to I-5 and from Aurora (SR-99) to 3rd Ave NW has not been secured. Funding has not been secured for right-of-way acquisition and construction of the corridor.

Fundin	Funding													
		FUN	DE	D					Į	JNFUNDED	)			
FUNDING SOURCE	E	2017 stimate	E	2018 stimate		2019 stimate	2020 Estimate		2021 Estimate		ı	2022 Estimate	2	017-2022 Total
Roads Capital	\$	330,000	\$	330,000									\$	660,000
Federal - STP	\$	2,118,000	\$	2,118,000									\$	4,236,000
Unknown					\$ :	2,000,000	\$	5,000,000	\$	20,000,000	\$	20,000,000	\$	47,000,000
PROJECT TOTAL	\$	2,448,000	\$	2,448,000	\$ 2	2,000,000	\$	5,000,000	\$	20,000,000	\$	20,000,000	\$	51,896,000

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# **Funding Outlook**

The estimates for 2018-2021 are included as placeholders. The 145th Multimodal Corridor Study provided a general project design and cost estimates for the project. It is anticipated that the total cost for this project will be significantly greater and that the project will continue beyond 2020. The City has submitted a total project cost estimate of \$200 million to the Puget Sound Regional Council for the purposes of regional transportation planning. The City was awarded grant funding for Plans, Specifications and Estimate as well as environmental review in 2014 (to be obligated in 2016 after completion of the145th Multimodal Corridor Study) for the segment from Aurora Avenue N to Interstate 5.

# **Project Status**

Project initiated in 2014. The Multimodal Corridor Study 2016. Design work for the segment from Aurora Avenue N to Interstate 5 is scheduled to begin in late 2016. This project helps to implement City Council Goal 2: Improve Shoreline's utility, transportation, and environmental infrastructure.

Purpos	Purpose / Goals Achieved									
<b>✓</b>	Non-motorized		Major Structures							
	System Preservation	<b>✓</b>	Interjurisdictional Coordination							
✓	Improves Efficiency & Operations		Growth Management							
	Safety		Corridor Study							

## 7. Echo Lake Safe Routes to School

# Scope / Narrative

This project will construct sidewalks (including curb and gutter), curb ramps, and crosswalks on N 195th Street between Meridian Avenue N and Wallingford Avenue N, directly adjacent to Echo Lake Elementary. The new sidewalk will connect to sidewalk already in place in front of the school east to the N 195th Street Trail, which connects student walkers and bicyclists to the surrounding neighborhoods.

Funding														
UNFUNDED														
FUNDING SOURCE	E:	2017 stimate		018 imate		019 imate		020 imate		021 imate		021 mate	_	17-2022 Total
Safe Routes to School	\$	410,000	\$	ı									\$	410,000
Roads Capital	\$	9,000	\$	ı									\$	9,000
PROJECT TOTAL	\$	419,000	\$	-	\$	-	\$	-	\$	-	\$	-	\$	419,000

# **Project Status**

Purpos	Purpose / Goals Achieved									
<b>✓</b>	Non-motorized		Major Structures							
	System Preservation		Interjurisdictional Coordination							
	Improves Efficiency & Operations		Growth Management							
<b>✓</b>	Safety		Corridor Study							

### 8. Bicycle System Plan Implementation – Minor Improvements

# Scope / Narrative

Implement the majority of the City of Shoreline's adopted Bicycle System Plan through the installation of bicycle lanes, sharrows and route signage. Wayfinding signage that helps guide nonmotorized travelers to destinations throughout Shoreline and in neighboring jurisdictions will accompany the installation of facilities. Implementation will include the design of facilities, procurement of materials, construction and project management. Improvements that would be installed as part of this project do not include those that would require significant capital projects, construction or right-of-way acquisition, as these are identified as components of other projects within this TIP.

Fundin	Funding								
UNFUNDED									
FUNDING SOURCE	2017 Estimate	2018 Estimate	2019 Estimate	2020 Estimate	2021 Estimate	2022 Estimate	2017-2022 Total		
Federal - STP	\$ 506,652						\$ 506,652		
Roads Capital	\$ 79,073						\$ 79,073		
PROJECT TOTAL	\$ 585,725	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 585,725		

# **Funding Outlook**

The total cost for this project is estimated to be approximately \$643,000. Design phase will be complete in 2016 and construction will be completed in 2017.

# **Project Status**

Purpose / Goals Achieved									
	Non-motorized System Preservation Improves Efficiency & Operations Safety		Major Structures Interjurisdictional Coordination Growth Management Corridor Study						

### 9. Citywide Radar Speed Signs

# Scope / Narrative

This project includes the installation of speed feedback signs (radar speed signs) at the following five locations:

- 1. Greenwood Ave N between Westminster Way N and N 160th Street (northbound and southbound)
- 2. 5th Ave NE between NE 192nd Street and NE 205th Street (northbound and southbound)
- 3. 1st Ave NE between N 145th Street and N 155th Street (northbound and southbound)
- 4. 15th Ave NW between NW Richmond Beach Rd and NW 205th St (northbound and southbound)
- 5. NW Innis Arden Way between Greenwood Ave N and 10th Ave NW (westbound only)

Fundin	Funding												
						FUN	DED						
FUNDING SOURCE		017 imate	2018 Estima		_	19 nate	20: Estin	-		21 mate	22 nate	20	17-2022 Total
Roads Capital	\$	1,000										\$	1,000
HSIP	\$ :	120,000										\$	120,000
PROJECT TOTAL	\$ 1	21,000	\$	-	\$	-	\$	-	\$	-	\$ -	\$	121,000

# **Project Status**

Purpos	Purpose / Goals Achieved									
	Non-motorized System Preservation Improves Efficiency & Operations Safety		Major Structures Interjurisdictional Coordination Growth Management Corridor Study							
$\checkmark$	Surecy		Corridor Stady							

### 10. Meridian Avenue N and N 155th Street Intersection Phase Changes

# Scope / Narrative

This project will revise northbound/southbound signal phasing from permissive to flashing yellow arrow operation to address at-angle collisions at the intersection of Meridian Ave N and N 155th St. It will decrease intersection radii to lower vehicle turning speeds and reduce pedestrian crossing distance for increased pedestrian safety and repair and provide vehicle and bicycle detection where needed and rebuild intersection sidewalks, curb ramps and pedestrian signal system for ADA compliance.

Fundin	g										
	FUNDED										
FUNDING SOURCE		2017 timate		2018 stimate	2019 Estimate	2020 Estimate	2021 Estimate	2022 Estimate	20	017-2022 Total	
Roads Capital	\$	7,000							\$	7,000	
HSIP	\$	48,000	\$	304,000					\$	352,000	
PROJECT TOTAL	\$	55,000	\$	304,000					\$	359,000	

# **Project Status**

Purpos	Purpose / Goals Achieved									
	Non-motorized System Preservation Improves Efficiency & Operations Safety		Major Structures Interjurisdictional Coordination Growth Management Corridor Study							

### 11. N/NE 175th Street Corridor Improvements

# Scope / Narrative

This project incorporates a series of improvements along this corridor to improve safety and capacity. Individual projects include the following:

- a. N 175th St Stone Ave N to Meridian Ave N\* and Interstate 5 to 15th Ave NE: This project will design and construct improvements which will tie in with those recently constructed by the Aurora project. The improvements include: reconstruction of the existing street to provide two traffic lanes in each direction, a center lane with two-way left turn areas, medians and turn pockets, bicycle lanes (integrated into the sidewalk), curb, gutter, and sidewalk with planter strip where feasible, illumination, landscaping and retaining walls. Intersections with high accident rates will be improved as part of this project. The profile of the roadway between Ashworth Ave N and Stone Ave N will be lowered to meet standard sight distance requirements. This project includes improvements to the I-5 intersections, in coordination with WSDOT.
- b. N 175th St and Meridian Ave N\*: Construct a northbound add lane on Meridian Ave N, which involves widening the northbound approach to include a second through lane. Rechannelize the southbound approach with a single left turn lane and increase the westbound left turn pocket length.
- c. N/NE 175th St Meridian Ave N to the Interstate 5 on-/off-ramps\*: Extend the left-turn pockets between Meridian Ave N and I-5 to provide additional storage capacity for left turning vehicles at the intersections.
- d. NE 175th St 15th Ave NE 25th Ave NE: Re-stripe the westbound approach to provide a dedicated left-turn pocket and shared through/right lane. With dedicated left-turn pockets, remove split-phase signal operation and optimize for eight-phase signal operation.
- e. Interchange Improvements: Projects were identified in the City's TMP to accommodate growth and maintain the City's adopted transportation level of service including several of the projects listed above. In addition to these projects, the City's travel demand model also identified the potential need to improve the interchange at NE 175th Street and I-5. Currently, this interchange experiences delays during the AM and PM peak periods, due in part to the ramp metering, and this backup affects other intersections. Reconstruction of this interchange would allow the City to improve bicycle and pedestrian safety at this location, as well as improve the operations of the nearby intersections. Because this project is not entirely within the jurisdiction of the City, it will require coordination with WSDOT.

Some of these projects can be constructed individually, allowing the complete set of improvement to be phased over time.

\* Projects have been identified in the City's Transportation Master Plan as necessary to accommodate growth and allow the City to maintain its adopted Levels of Service. These projects may be funded in part by transportation impact fees.

Continued on next page

# Attachment A

Funding										
	FUNDED UNFUNDED					JNDED				
FUNDING SOURCE		2017 Estimate	2018 Estimate	2019 Estimate	2020 Estimate	2021 Estimate		2022 Estimate	2017-2022 Total	
N 175 <sup>th</sup> St – Stone Ave N to Meridian Ave N* and Interstate 5 to 15 <sup>th</sup> Ave NE (a) - STP	\$	1,640,000	\$ 1,640,000				\$	6,660,000	\$	9,940,000
N 175 <sup>th</sup> St – Stone Ave N to Meridian Ave N* and Interstate 5 to 15 <sup>th</sup> Ave NE (a) – impact fee							\$	3,314,000	\$	3,314,000
N 175 <sup>th</sup> St and Meridian Ave N (b) - STP	\$	651,000	\$ 651,000				\$	2,644,000	\$	3,946,000
N 175 <sup>th</sup> St and Meridian Ave N (b) – impact fee							\$	1,315,000	\$	1,315,000
N/NE 175 <sup>th</sup> St – Meridian Ave N to the I-5 on-/off- ramps (c) - STP	\$	529,000	\$ 528,000				\$	2,146,000	\$	3,203,000
N/NE 175 <sup>th</sup> St – Meridian Ave N to the I-5 on-/off- ramps (c) – impact fee							\$	1,067,000	\$	1,067,000
NE 175 <sup>th</sup> St – 15 <sup>th</sup> Ave NE – 25 <sup>th</sup> Ave NE (d) - unknown							\$	10,000	\$	10,000
Interchange Improvements (e)							\$	60,000,000	\$	60,000,000
PROJECT TOTAL	\$	2,820,000	\$ 2,819,000	\$ -	\$ -	\$ -	\$	77,156,000	\$	82,795,000

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# **Funding Outlook**

Projects identified in the City's Transportation Master Plan as necessary to accommodate growth and allow the City to maintain its adopted Levels of Service may be funded in part by transportation impact fees. The City pursued federal grant funding for design and environmental work through the Surface Transportation Program administered by PSRC in 2014 and was included as the first project eligible for funding on the contingency list. In February 2016 this project was selected off the contingency list and fully funded for design and environmental review. It is anticipated that the City will use transportation impact fees collected from private development to serve as the match for this project.

# **Project Status**

Purpose / Goals Achieved								
<b>✓</b>	Non-motorized		Major Structures					
<b>✓</b>	System Preservation	<b>✓</b>	Interjurisdictional Coordination					
<b>✓</b>	Improves Efficiency & Operations	✓	Growth Management					
<b>✓</b>	Safety	✓	Corridor Study					

### 12. N/NE 185th Street Corridor Improvements

### Scope / Narrative

NE 185th Street at Interstate 5 is the future site of a light rail station planned as part of Sound Transit's Lynnwood Link Light Rail Extension project. With the construction of this station and the operation of light rail service, the City expects increases to traffic on N/NE 185th Street as residents will drive to access the parking garage planned as part of this facility, as well as increased bicycle, pedestrian and bus traffic. Additionally, the City anticipates that the surrounding areas will transition over time to more densely developed, mixed use neighborhoods, which will also be a source of increased multi-modal traffic. The development of the Point Wells property in Snohomish County is likely to put added pressure on this roadway as well. This project incorporates a series of improvements along this corridor to improve safety and capacity. Individual projects include the following:

- a. NE 185th St 1st Ave NE to 7th Ave NE\* and 7th Ave NE to 10th Ave NE: Rechannelize the roadway to add a center two-way left-turn lane, retain bicycle lanes and remove on-street parking.
- b. N 185th St and Meridian Ave N\*: Construction of northbound and southbound add/drop lanes, which involves widening the northbound and southbound approaches to include a second through lane and receiving lane. This project also includes construction of an east to southbound right-turn pocket, which involves widening the eastbound approach. This signal will be coordinated with the signal at Meridian Ave N and 1st Ave NE.
- c. N 185th St Midvale Ave N to Stone Ave N: Extend the second eastbound through lane from Midvale Ave N to Stone Ave N. The lane will terminate as a right-turn only lane at Stone Ave N.
- d. N/NE 185th St Midvale Ave N 10th Ave NE: Perform overlay/preservation work. Work may include milling the roadway and sealing the joints between the concrete panels to improve the smoothness and improve the pavement life span.
- e. N/NE 185th Street Corridor Study: Develop a corridor plan for 185th Street/10th Avenue NE/NE 180th Street that includes multi-modal transportation facilities necessary to support projected growth in the subarea, a phasing plan for implementation and a funding plan for improvements. This project is identified in the 185th Street Station Subarea Plan.

Some of these projects can be constructed individually, allowing the complete set of improvements to be phased over time. Preservation work may occur in advance of other projects in order to maintain them until funding is available fo the larger capital projects.

\*Projects have been identified in the City's Transportation Master Plan as necessary to accommodate growth and allow the City to maintain its adopted Levels of Service. These projects may be funded in part by transportation impact fees.

Continued on next page

Funding								
	FUNDED	UNFUNDED						
FUNDING SOURCE	2017 Estimate	2018 Estimate	2019 Estimate	2020 Estimate	2021 Estimate	2022 Estimate	2017-2022 Total	
NE $185^{th}$ St $-1^{st}$ Ave NE to $7^{th}$ Ave NE to $10^{th}$ Ave NE(a) - unknown					\$231,000	\$231,000	\$	462,000
NE $185^{th}$ St $-1^{st}$ Ave NE to $7^{th}$ Ave NE (a) $-$ impact fee					\$78,000	\$78,000	\$	156,000
N 185 <sup>th</sup> St and Meridian Ave N(b) - unknown					\$4,110,000	\$4,110,000	\$	8,220,000
N 185 <sup>th</sup> St and Meridian Ave N (b) – impact fee					\$1,370,000	\$1,370,000	\$	2,740,000
N 185 <sup>th</sup> St – Midvale Ave N to Stone Ave N (c) - unknown					\$550,000	\$550,000	\$	1,100,000
NE 185 <sup>th</sup> St – Midvale Ave N – 10 <sup>th</sup> Ave NE (d) - unknown					\$2,200,000	\$2,200,000	\$	4,400,000
N/NE 185th Street Corridor Study (e) - unknown	\$ 600,000						\$	600,000
PROJECT TOTAL	\$ 600,000	\$ -	\$ -	\$ -	\$ 8,539,000	\$ 8,539,000	\$	17,678,000

# **Funding Outlook**

Projects identified in the City's Transportation Master Plan as necessary to accommodate growth and allow the City to maintain its adopted Levels of Service may be funded in part by transportation impact fees.

# **Project Status**

This project helps to implement City Council Goal 2: Improve Shoreline's utility, transportation, and environmental infrastructure. Bicycle lanes were installed in 2013. The roadway will need to be rechannelized again in order to provide the center turn lane.

Purpose / Goals Achieved								
<b>V</b>	Non-motorized		Major Structures					
<b>J</b>	System Preservation		Interjurisdictional Coordination					
<b>V</b>	Improves Efficiency & Operations	<b>✓</b>	Growth Management					
<b>✓</b>	Safety		Corridor Study					

#### 13. Richmond Beach Rd Rechannelization

### Scope / Narrative

This project will re-channelize Richmond Beach Rd/NW 195th St/NW 196th St from 24th Ave NW to Dayton Ave N from four lanes to one lane in each direction plus a center turn lane. The primary goal of this project is to improve driver, pedestrian, and bicyclist safety and mobility. Re-channelization also provides the ability to implement on-street bicycle lanes as well as pedestrian refuge space for pedestrians crossing the street between controlled intersections.

Fundin	Funding									
		PARTIALLY FUNDED UNFUNDED								
FUNDING SOURCE	2017 Estimate	20.7   20.7   20.7   202.   202.   20.7 20.								
Unknown	\$ 200,000						\$ 200,000			

### **Funding Outlook**

This project is competitive for funding from the Citywide Safety Grant administered through WSDOT. There may also be a nexus for new development, such as Point Wells, to fund safety improvements at this interrsection.

### **Project Status**

Purpo	Purpose / Goals Achieved										
<b>V</b>	Non-motorized		Major Structures								
	System Preservation		Interjurisdictional Coordination								
V	Improves Efficiency & Operations		Growth Management								
<b>~</b>	Safety		Corridor Study								

# **UNFUNDED PROJECTS**

#### 14. Community Renewal Area (CRA) Roadway Improvements

#### Scope / Narrative

This project incorporates a series of improvements in the Community Renewal Area. Individual projects include the following:

- a. Reconstruct Greenwood/Innis Arden/160th intersection for improved operations. Project also includes sidewalks between Dayton and Greenwood.
- b. N 160th from Aurora to Dayton/Greenwood. This is a multi-phase project. N 160th will be restriped to 3-lanes and bikelanes as part of the Federally funded bicycle project in 2016. Following phases include new sidewalks, a gateway entrance on N 160th St for Aurora Square and a midblock pedestrian crossing. Most effectively done when the Sears property redevelops and only if traffic volumes warrant.
- c. Intersection at N 155th St and Westminster Way N. Westminster Way N to Aurora Ave N. Improves the main vehicle intersection and increases safety for pedestrians. Includes improvements to the section of N 155th St between Westminster Way N and Aurora Ave N. Most effectively done at one time and in conjunction with the redevelopment of the Sears property.
- d. Westminster Way N (North). N 155th St to N 160th St. Envisioned as a project in the Aurora Sqaure CRA Renewal Plan, reworking Westminster Way N in this section provides a more pedestrian and bicycle friendly section with street parking that can help unite the small triangle property to the rest of Aurora Square. Most effectively completed with the redevelopment of the triangle property. Project includes improving a bike connector from 157th to 160th.
- e. Construct N 157th St. Westminster Way N to Aurora Ave N. New street connection makes Westminster between 155th and 157th pedestrian and cycle-friendly, creates a better entrance to Aurora Square, connects the triangle property to the rest of Aurora Square, and provides on street parking for future retail. Most effectively completed with the redevelopment of the triangle property.
- f. Westminster Way N (South). N 155th St to Fremont Ave N. Frontage improvements provide little support of renewal efforts in this location.

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Funding								
UNFUNDED								
FUNDING SOURCE	2017 Estimate	2018 Estimate	2019 Estimate	2020 Estimate	2021 Estimate	2022 Estimate	2	2017-2022 Total
Greenwood/ N 160th St/ Innis Arden intersection		\$ 100,000	\$ 700,000	\$ 700,000			\$	1,500,000
Re-construct N 160th from Aurora to Dayton with bike lanes, sidewalks, and possibly a new signalized intersection	\$100,000					\$ 7,500,000	\$	7,600,000
N 155th St (West) including intersection at Westminster	\$150,000	\$ 2,850,000					\$	3,000,000
Westminster Way N (North) N 157th to Aurora		\$ 1,700,000					\$	1,700,000
Construct N 157th St	\$227,000						\$	227,000
Westminster Way N (South)						\$ 7,000,000	\$	7,000,000
PROJECT TOTAL	\$ 477,000	\$ 4,650,000	\$ 700,000	\$ 700,000	\$ -	\$ 14,500,000	\$	21,027,000

#### **Funding Outlook**

Many of these projects will be constructed by private development as properties within the Aurora Square Community Renewal Area are redeveloped. The cost estimate does not include the funding needed for utility undergrounding.

#### **Project Status**

This project helps to implement City Council Goal 1: Strengthen Shoreline's economic base and Goal 2: Improve Shoreline's utility, transportation, and environmental infrastructure.

Purpos	Purpose / Goals Achieved								
<b>✓</b>	Non-motorized		Major Structures						
	System Preservation	<b>✓</b>	Interjurisdictional Coordination						
<b>✓</b>	Improves Efficiency & Operations		Growth Management						
<b>✓</b>	Safety	✓	Corridor Study						

#### 15. NE Perkins Way Improvements - 10th Avenue NE to 15th Avenue NE

#### Scope / Narrative

Construct bicycle and pedestrian improvements on NE Perkins Way from 10th Ave NE to 15th Ave NE. This roadway segment currently includes two travel lanes and a pedestrian walking on the north side separated from the travel lanes by jersey barriers. No bicycle facilities are present. This segment is part of the Northern Connector route from the Interurban Trail in Shoreline to the Burke-Gilman Trail in Lake Forest Park. Upon completion of the separated trail at NE 195th Street from 1st Ave NE to 5th Ave NE and intallation of signage along the remainder of the route, this segment will be the remaining gap within the connector route. A study is needed to determine the appropriate scope of improvements and costs for this project.

Funding										
			UNFU	INDED						
FUNDING SOURCE	2017 Estimate	2018 Estimate	2019 Estimate	2020 Estimate	2021 Estimate	2022 Estimate	2017-2022 Total			
Unknown				\$ 3,681,540			\$ 3,681,540			

## **Funding Outlook**

The funding identified for this project is to identify and design the appropriate improvements for the roadway and develop cost estimates. Because construction costs are unknown at this time, a placeholder for them is identified in 2019-2020. More refined construction costs and a timeline for completion will be updated in future TIPs. This project is likely to be competitive for grant funding.

#### **Project Status**

Purpos	se / Goals Achieved		
<b>~</b>	Non-motorized		Major Structures
	System Preservation		Interjurisdictional Coordination
	Improves Efficiency & Operations		Growth Management
<b>~</b>	Safety	<b>V</b>	Corridor Study

#### 16. 15th Avenue NE - NE 172nd Street to NE 195th Street

#### Scope / Narrative

This project would construct sidewalks and accessible bus stops on the west side of the road from NE 180th St to NE 195th St. There are significant topographic challenges related to constructing a sidewalk on the west side of this arterial. A corridor study will be performed to identify a preferred transportation solution for this roadway segment. Alternatives to accommodate bicycles will be analyzed, including rechannelization of the roadway from four lanes to three. The cross-section of the road from NE 175th St to NE 180th St would be reduced from four lanes to three and bicycle lanes would be installed. Right-of-way may need to be purchased to complete this project.

Funding								
	UNFUNDED							
FUNDING SOURCE	2017 Estimate	2018 Estimate	2019 Estimate	2020 Estimate	2021 Estimate	2022 Estimate	2017-2022 Total	
Unknown				\$ 6,176,793			\$ 6,176,793	

#### **Funding Outlook**

The funding identified for this project is to identify and design the appropriate improvements for the roadway and develop cost estimates. Because construction costs are unknown at this time, a placeholder for them is identified in 2019-2021. More refined construction costs and a timeline for completion will be updated in future TIPs.

#### **Project Status**

Purpose / Goals Achieved									
<b>V</b>	Non-motorized		Major Structures						
	System Preservation		Interjurisdictional Coordination						
<b>√</b>	Improves Efficiency & Operations		Growth Management						
<b>V</b>	Safety	<b>J</b>	Corridor Study						

#### 17. Fremont Avenue N - N 175th Street to N 185th Street

### Scope / Narrative

This project incorporates a series of improvements along this corridor to improve safety and capacity including:

- Rechannelization of the roadway to a three lane cross-section (one travel lane in each direction with a center turn lane) with bicycle lanes.
- Construction of sidewalks on both sides of the street. All sidewalks would be five to eight feet wide, include curb and gutter and five foot amenity zones separating the pedestrians from the roadway.
- Perform overlay/preservation work.

These projects can be constructed individually, allowing the complete set of improvement to be phased over time.

Fremont Ave N serves as a primary route to Shorewood High School and Shoreline's Town Center. Tricia - Need updated cost estimate

Funding									
			UNF	UNDED					
FUNDING SOURCE	2017 Estimate	2018 Estimate	2019 Estimate	2020 Estimate	2021 Estimate	2022 Estimate	2017-2022 Total		
Unknown				\$ 6,292,720			\$ 6,292,720		

## **Project Status**

This project helps to implement City Council Goal 1: Strengthen Shoreline's economic base and Goal 2: Improve Shoreline's utility, transportation, and environmental infrastructure.

### **Funding Outlook**

The funding identified for this project is to identify and design the appropriate improvements for the roadway and develop cost estimates. Because construction costs are unknown at this time, a placeholder for them is identified in 2019-2021. More refined construction costs and a timeline for completion will be updated in future TIPs.

Purpose / Goals Achieved									
· 	Non-motorized System Preservation Improves Efficiency & Operations	<ul><li>✓</li></ul>	Major Structures Interjurisdictional Coordination Growth Management						
✓	Safety		Corridor Study						

#### 18. Point Wells Potential Mitigation Projects

### Scope / Narrative

The proposed Point Wells development in Snohomish County will result in significant traffic impacts in the City of Shoreline. Mitigation projects for the Point Wells development will be funded and potentially constructed by private developers. Preliminarily identified projects are listed below.

- a. NW 195th/196th St Richmond Beach Dr NW to 24th Ave NW: NW 196th St and NW 195th Street are unimproved roadways with a speed limit of 25 miles per hour and two 12 foot wide lanes with limited sidewalks. Preliminary recommended improvements to the roadway should include sidewalks on one side of the street (including Richmond Beach Drive between NW 195th St/NW 196th Street) and narrowing lanes to slow traffic flow and improve pedestrian comfort. This project will also include a roundabout or other traffic calming technique at the 24th Ave NW intersection.
- b. NW 196th St 24th Ave NW to 20th Ave NW: NW 196th St is a collector arterial with a speed limit of 25 miles per hour. It consists of two 12 foot wide lanes with a sidewalk on the north side and part of the south side of the street. Improvements to the roadway should include construction of a complete sidewalk on the south side of the street.
- c. NW 195th St at 20th Ave NW: Construct a traffic signal at this intersection which is currently controlled by stop signs on all approaches.
- d. NW Richmond Beach Road at 15th Ave NW: Improve operations and safety at the existing off-set intersection. This could include signalization or construction of roundabouts.
- e. Richmond Beach Dr NW NW 196th St to NW 205th St: Richmond Beach Dr NW is the only road to serve the Point Wells site. It is designated as a collector arterial and local secondary street. It consists of two 12 foot wide lanes with no sidewalks. Some areas on the east side are wide enough to accommodate on-street parking. Improvements to this roadway include, at a minimum, widening to help maintain traffic flow and construction of a sidewalk on one side of the street.
- f. NW Richmond Beach Rd at 8th Ave NW: Improve safety and operation at this existing five legged intersection through a reconfiguration that eliminates the southwest approach or construction of a roundabout.
- g. NW/N Richmond Beach Rd Richmond Beach Dr NW to Fremont Ave N: Perform overlay/preservation work. Preservation work may occur in advance of other projects in order to maintain them until funding is available for the larger capital projects.
- h. Off-Corridor Sidewalk/Pedestrian Safety Improvements: Staff and the developer are currently reviewing potential off-corridor sidewalks to improve pedestrian safety on arterial streets that connect to the corridor.
- i. Traffic Calming and Bicycle Improvements: Implement traffic calming techniquest to minimize cut-through traffic in the area between Richmond Beach Drive and 20th Ave NW, on NW 190th Street west of 8th Ave NW and bicycle improvements on east-west streets parallelling the Richmond Beach Road corridor.

Continued on next page

Funding							
			UNF	UNDED			
FUNDING	2017	2018	2019	2020	2021	2022	2017-2022
SOURCE	Estimate	Estimate	Estimate	Estimate	Estimate	Estimate	Total
NW 195th/196 <sup>th</sup> St – Richmond Beach Dr							
NW to 24 <sup>th</sup> Ave NW (a)						¢1 F00 000	4 1 500 000
<ul><li>developer mitigation</li></ul>						\$1,500,000	\$ 1,500,000
developer magadon							
NW 196 <sup>th</sup> St – 24 <sup>th</sup> Ave							
NW to 20 <sup>th</sup> Ave NW (b)							
<ul><li>developer mitigation</li></ul>						\$300,000	\$ 300,000
g							
NW 195 <sup>th</sup> St at 20 <sup>th</sup> Ave							
NW (c) – developer						¢1 240 000	t 1 240 000
mitigation						\$1,340,000	\$ 1,340,000
NW Richmond Beach							
Road at 15 <sup>th</sup> Ave NW							
(d) – developer						\$2,210,000	\$ 2,210,000
mitigation							
Richmond Beach Dr							
NW – NW 196 <sup>th</sup> St to							
NW 205 <sup>th</sup> St: (e) –						\$18,250,000	\$ 18,250,000
developer mitigation						<b>410/100/000</b>	Ψ 10/200/000
NW Richmond Beach							
Rd at 8 <sup>th</sup> Ave NW: (f) –						±2.140.000	± 2.140.000
developer mitigation						\$2,140,000	\$ 2,140,000
NW/N Richmond Beach							
Rd - Richmond Beach							
Dr NW to Fremont Ave N (g) – developer						\$4,000,000	\$ 4,000,000
mitigation							
Off-Corridor							
Sidewalk/Pedestrian							
Safety Improvements						\$15,050,000	\$ 15,050,000
(h) – developer							•
mitigation							
Traffic Calming and							
Bicycle Improvements						1700 000	4 700.000
(i) - developer mitigation						\$700,000	\$ 700,000
magadon							
PROJECT TOTAL	¢ -	¢ -	\$ -	\$ -	¢ -	\$ 45,490,000	\$ 45,490,000
FROJECI IUIAL	\$ -	\$ -	<b>क</b> -	<b>₽</b> -	\$ -	\$ 45,490,000	φ <del>1</del> 3,430,000

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## **Funding Outlook**

Many of these projects will be funded and constructed by private developers as mitigation for the Point Wells development. It is unknown at this time when projects will be constructed.

### **Project Status**

Purpo	Purpose / Goals Achieved										
<b>V</b>	Non-motorized		Major Structures								
7	System Preservation	<b>_</b>	Interjurisdictional Coordination								
<b>V</b>	Improves Efficiency & Operations	<b>√</b>	Growth Management								
7	Safety	<b>V</b>	Corridor Study								

#### 19. Major Pavement Rehabilitation Projects

#### Scope / Narrative

Replacement of the roadway pavement is called for when regular maintenance has been deferred for an extended period and the pavement structure becomes sufficiently worn or damaged that the overlay or bituminous surface treatment preservation techniques employed in the City's Annual Road Surface Maintenance program (Project # 3) are ineffective. Timing is important: The cost of reconstructing a roadway is dramatically higher than the cost of preventive maintenance over the same time period. Several road segments in Shoreline require replacement of all or most the roadway pavement:

- N/NE 155th St: Aurora Ave N to 15th Ave NE
- N/NE 185th St: Midvale Ave N to 10th Ave NE (costs included with Project #18)
- NW/N Richmond Beach Rd: Richmond Beach Dr. NW to Fremont Ave N (Costs included with Project #17)
- Fremont Ave N: N 175th St to N 185th St (costs included with Project #15)
- Westminster Way N: N 145th St to N 155th St
- 8th Ave NW: NW Richmond Beach Rd to NW 180th St
- N/NW 200th St: 3rd Ave NW to Aurora Ave N
- N/NW 195th St: 3rd Ave NW to Aurora Ave N
- Linden Ave N: N 175th St to N 185th St
- 8th Ave NW: NW Richmond Beach Rd to NW 180th St
- NW 201st St: 23rd Pl. NW to 24th Ave. NW
- 23rd PI NW: 23rd Ave NW to 20th Ave NW
- 21st PI NW: 21st Ave NW to 23rd PI NW
- 24th Ave NW: NW 196th St to NW 201st St
- Ashworth Ave. N: N 183rd St. to N 185th St
- 20th Ave NW: NW 197th St to 23rd Pl NW
- N 183rd St: Ashworth Ave N to Meridian Ave N
- NE 175th: I-5 to 15th Ave NE

On roadways where both capital projects and preservation work are identified in this TIP, the preservation work may occur in advance of those projects in order to maintain them until funding is available for the larger capital projects. The costs for these projects are identified on the individual project pages.

Fundir	Funding						
UNFUNDED							
FUNDING SOURCE	2017 Estimate	2018 Estimate	2019 Estimate	2020 Estimate	2021 Estimate	2022 Estimate	2017-2022 Total
Unknown	\$ 2,000,000	\$ 2,000,000	\$ 2,000,000	\$ 2,000,000	\$ 2,000,000	\$ 2,000,000	\$ 12,000,000

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## **Funding Outlook**

The City will pursue federal grant funding for overlay work. Grant funding would be pursued for the projects that are most highly qualified. The annual funding identified for 2017-2022 will not be adequate to perform overlay work for all of the roadways identified.

### **Project Status**

Purpos	se / Goals Achieved	
	Non-motorized System Preservation Improves Efficiency & Operations Safety	Major Structures Interjurisdictional Coordination Growth Management Corridor Study

#### 20. Meridian Avenue N - N 145th Street to N 205th Street

#### Scope / Narrative

This project incorporates a series of improvements along this corridor to improve safety and capacity including:

- Rechannelization of the roadway to add a center two-way left-turn lane and bicycle lanes (requires removal of on-street parking)
- Installation of traffic calming measures
- Repair of damaged sidewalks, curbs and gutters and installation of new sidewalks where missing
- Installation of curb ramps to improve ADA accessibility
- Roadway overlay work
- Possible undergrounding of utilities.

Right-of-way may need to be acquired in order to meet ADA requirements around trees. This project has been identified in the City's Transportation Master Plan as necessary to accommodate growth and allow the City to maintain its adopted Levels of Service. These projects may be funded in part by transportation impact fees. Overlay from N 190th Street - N 205th Street scheduled to occur in conjunction with Project #3. Rechannelization scheduled to occur in conjunction with Project #8.

As part of improvements to this corridor, the City may choose to incorporate additional projects identified in this TIP, such as intersection improvements at N 175th St (Project #16) or N/NE 185th St (Project #18).

Fundin	Funding							
			UNF	UNDED				
FUNDING SOURCE	2017 Estimate	2018 Estimate	2019 Estimate	2020 Estimate	2021 Estimate	2022 Estimate		2017-2022 Total
Unknown						\$6,590,000	\$	6,590,000
Roads Capital	\$ 317,000						\$	317,000
Federal - STP	\$ 675,000						\$	675,000
Impact Fee						\$2,527,000	\$	2,527,000
PROJECT TOTAL	\$ 992,000	\$ -	\$ -	\$ -	\$ -	\$ 9,117,000	\$	10,109,000

### **Funding Outlook**

Projects identified in the City's Transportation Master Plan as necessary to accommodate growth and allow the City to maintain its adopted Levels of Service may be funded in part by transportation impact fees. 2016 estimates include awarded grant funds for overlay work from N 190th Street - N 205th Street.

Continued on next page

## **Project Status**

#### 21. Aurora Avenue N at N 145th Street Dual Left Turn Lane

#### Scope / Narrative

This project consists of construction of an additional south to east bound left turn lane (for a total of two) at N 145th St and Aurora Ave N and construction of a new signal at N 149th St and Aurora Ave N. The N 145th St dual left turn lane will require acquisition of additional right-of-way along the western edge of Aurora Ave N (the Aurora project constructed "interim" width sidewalks in this location). Schedule of this project may be influenced by redevelopment of the northwest corner of Aurora Ave N and N 145th St, implementation of improvements to the 145th St corridor or improvements by the City of Seattle. The additional width required for this turn lane is currently under consideration by the City of Seattle as part of their Aurora Ave N project planning. Shoreline would only proceed with this project in conjunction with construction by the City of Seattle as part of their Aurora Ave N project. The new signal at N 149th St will need to meet signal warrants and receive Washington State Department of Transportation approval. This signal project should be combined with the dual left turn at N 145th St in order to address queue length demands. The 145th Street Corridor Study will include evaluation of this project for consistency with the corridor improvements.

Funding								
UNFUNDED								
FUNDING	2017	2018	2019	2020	2021	2022	2017-2022	
SOURCE	Estimate	Estimate	Estimate	Estimate	Estimate	Estimate	Total	
Unknown						\$ 4,700,000	\$ 4,700,000	

#### **Project Status**

Purpo	Purpose / Goals Achieved									
	Non-motorized		Major Structures							
	System Preservation	<b>√</b>	Interjurisdictional Coordination							
✓	Improves Efficiency & Operations		Growth Management							
<b>√</b>	Safety		Corridor Study							

#### 22. N 165th Street and Carlyle Hall Road N Sidewalk and Intersection Safety

#### Scope / Narrative

This project will improve an odd-shaped intersection to improve visibility and safety, as well as providing pedestrian safety features. The design has not been completed and one of the first steps will be to scope out alternatives.

Funding	Funding							
	UNFUNDED							
FUNDING SOURCE	2017 Estimate	2018 Estimate	2019 Estimate	2020 Estimate	2021 Estimate	2022 Estimate	2017-2022 Total	
Unknown						\$ 2,482,000	\$ 2,482,000	

### **Funding Outlook**

The funding identified for this project is ito dentify and design the appropriate improvements for the roadway and develop cost estimates. Because construction costs are unknown at this time, a placeholder for them is identified in 2022. More refined construction costs and a timeline for completion will be updated in future TIPs.

### **Project Status**

Purpos	Purpose / Goals Achieved									
<b>√</b>	Non-motorized		Major Structures							
	System Preservation		Interjurisdictional Coordination							
<b>✓</b>	Improves Efficiency & Operations		Growth Management							
7	Safety		Corridor Study							

#### 23. N 152nd Street and Ashworth Avenue N Intersection Improvements

### Scope / Narrative

This project will construct a sidewalk along the north side of N 152nd St from the existing sidewalk (approximately 275 feet to the west) to Ashworth Ave N and the west side of Ashworth Ave N from N 152nd St to N 153rd Street. The sidewalk will wrap around the corner and provide a connection to the pedestrian walkway to the south (scheduled for completion in 2014).

Funding							
UNFUNDED							
FUNDING SOURCE	2017 Estimate	2018 Estimate	2019 Estimate	2020 Estimate	2021 Estimate	2022 Estimate	2017-2022 Total
WSDOT				\$ 25,000	\$ 320,000		\$ 345,000

#### **Funding Outlook**

This project is competitive for funding from the Pedestrian and Bicycle Safety Grant administered through WSDOT.

#### **Project Status**

Purpos	Purpose / Goals Achieved									
<b>✓</b>	Non-motorized		Major Structures							
	System Preservation		Interjurisdictional Coordination							
	Improves Efficiency & Operations		Growth Management							
7	Safety		Corridor Study							

24. Ballinger Way - NE 205th St to 19th Ave NE Access Control Preliminary Design

### Scope / Narrative

Access control improvements along this corridor are needed to address vehicular and pedestrian collisions as identified in the City's 2014 Annual Traffic Report. Preliminary design to determine the scope of access control and intersection improvements is needed as a first step. Scoping will also identify pedestrian safety improvement opportunities, specifically related to midblock crossings. Right-of-way may need to be acquired in order to provide U-turns at signals and/or at access points.

Funding								
	PARTIALLY FUNDED UNFUNDED							
FUNDING SOURCE	2017 Estimate	2018 Estimate	2019 Estimate	2020 Estimate	2021 Estimate	2022 Estimate	2017-2022 Total	
Unknown		\$ 200,000					\$ 200,000	

### **Funding Outlook**

This project is competitive for funding from the Citywide Safety Grant administered through WSDOT.

## **Project Status**

Purpose / Goals Achieved									
<b>~</b>	Non-motorized		Major Structures						
	System Preservation		Interjurisdictional Coordination						
<b>√</b>	Improves Efficiency & Operations		Growth Management						
<b>✓</b>	Safety		Corridor Study						

#### 25. N 185th Street and Linden Avenue N Intersection Improvements

#### Scope / Narrative

This project would rebuild the intersection of Linden Ave N and N 185th Street in order to revise signal phasing to address at-angle collisions as noted in the City's Annual Traffic Report. This project would also decrease intersection radii to lower vehicle turning speeds and reduce pedestrian crossing distances for increased pedestrian safety. Sidewalks, curb ramps and pedestrian signal systems for ADA compliance would also be addressed. The current signal infrastructure does not have capacity to provide these phase changes and pedestrian improvements unless the intersection is rebuilt.

Funding											
	PARTIALLY FUNDED UNFUNDED										
FUNDING SOURCE	2017 Estimate	2018 Estimate	2019 Estimate	2020 Estimate	2021 Estimate	2022 Estimate	2017-2022 Total				
Unknown			\$ 530,100				\$ 530,100				

#### **Funding Outlook**

This project is competitive for funding from the Citywide Safety Grant administered through WSDOT.

### **Project Status**

Purpos	Purpose / Goals Achieved								
<b>√</b>	Non-motorized		Major Structures						
<b>V</b>	System Preservation		Interjurisdictional Coordination						
<b>V</b>	Improves Efficiency & Operations		Growth Management						
✓	Safety		Corridor Study						

#### 26. 3rd Ave NW and NW Richmond Beach Rd Intersection Improvements

#### **Scope / Narrative**

This intersection has regularly been the highest ranked site for number of collisions in the City. This project would rebuild the intersection of 3rd Avenue NW and NW Richmond Beach Road in order to provide left turn pockets in the eastbound and westbound directions. This would allow for safer and more efficient signal phasing to address at-angle collisions as noted in the City's Annual Traffic Report. Sidewalks, curb ramps and pedestrian signal systems for ADA compliance would also be addressed. Additionally, the current signal infrastructure is located on a span wire which would be changed to signal pole structures. Interim phasing and signal improvements may be paired in conjunction wtih Project #29.

Funding	g							
	PARTIALLY FUNDED UNFUNDED							
FUNDING SOURCE	2017 Estimate	2018 Estimate	2019 Estimate	2020 Estimate	2021 Estimate	2022 Estimate	2017-2022 Total	
Unknown						\$ 2,320,000	\$ 2,320,000	

#### **Funding Outlook**

This project is competitive for funding from the Citywide Safety Grant administered through WSDOT. There may also be a nexus for new development, such as Point Wells, to fund safety improvements at this interrsection.

#### **Project Status**

Purpos	Purpose / Goals Achieved								
<b>~</b>	Non-motorized		Major Structures						
<b>✓</b>	System Preservation		Interjurisdictional Coordination						
<b>~</b>	Improves Efficiency & Operations		Growth Management						
<b>✓</b>	Safety		Corridor Study						

#### 27. New Sidewalk Projects

#### Scope / Narrative

The 2011 Transportation Master Plan (TMP) includes a Pedestrian System Plan, which identifies key pedestrian corridors in Shoreline that result in a comprehensive pedestrian network throughout the City. Over 100 projects are identified in order to complete the system. These projects are prioritized in the TMP.

The City's standard design for sidewalks includes construction of an amenity zone between the curb and the sidewalk. The amenity zone provides a buffer between pedestrians and traffic and is often vegetated. The amenity zone can be utilized as a stormwater management and treatment facility through the use of low impact development techniques such as rain gardens. It is the City's policy to maintain open stormwater channels whenever possible and these are often in the right-of-way where sidewalks would be constructed. In these circumstances, the City will need to implement flexibility in its design standards to maintain these channels as much as possible.

The primary focus of the sidewalk projects listed in this TIP is to complete sidewalks on one side of a street in order to create continuous walkways along a street or corridor. The sidewalk projects listed in this TIP include a combination of projects that fill in gaps between existing segments, projects that are well qualified for grant programs and those projects that will be required as mitigation for public projects.

Funding										
		UNFUNDED								
FUNDING SOURCE	2017 Estimate	2018 Estimate			2021 Estimate	2022 Estimate	2016-2021 Total			
Unknown	\$ 172,000	\$ 1,227,000	\$ 1,519,000	\$ 590,000	\$ 2,029,000	\$ 2,011,000	\$ 7,548,000			

### **Funding Outlook**

In the past, the City has applied for grant funding for sidewalks from several state sources including the WSDOT Pedestrian and Bicycle Program, WSDOT Safe Routes to School and the Transportation Improvement Board as well as the federal Transportation Alternatives Program. Sidewalks have also been funded through federal Surface Transportation Program as part of larger roadway projects, such as the Aurora Corridor Improvement Project.

### **Project Status**

Pur	Purpose / Goals Achieved								
	<b>✓</b>	Non-motorized		Major Structures					
		System Preservation		Interjurisdictional Coordination					
		Improves Efficiency & Operations		Growth Management					
	<b>✓</b>	Safety		Corridor Study					

STREET	FROM	ТО	COST	ESTIMATED PROJECT START YEAR	DESIGN	CONST.	2017 stimate		2018 stimate	2019 Estimate	2020 Estimate		2021 Estimate	2022 Estimate	2017-2022 Total
20 <sup>th</sup> Ave NW	Saltwater Park entrance	NW 195 <sup>th</sup> St	\$700,000	2017	\$112,000 (2017)	\$588,000 (2018)	\$ 112,000	\$	588,000						\$ 700,000
1 <sup>st</sup> Ave NE	NE 192 <sup>nd</sup> St	NE 195 <sup>th</sup> St	\$955,000	2018	\$181,000 (2018)	\$774,000 (2019)		\$	181,000	\$ 774,000					\$ 955,000
Ashworth Ave N	N 195 <sup>th</sup> St	N 200 <sup>th</sup> St	\$890,000	2020	\$140,000 (2016)	\$750,000 (2017)					\$ 140,0	00	\$ 750,000		\$ 890,000
NW/N 195 <sup>th</sup> St	3 <sup>rd</sup> Ave NW	Aurora Ave N	\$1,400,000	2022	All in 2	2022								\$ 1,400,000	\$ 1,400,000
3 <sup>rd</sup> Ave NW	NW 189 <sup>th</sup> St	NW 195 <sup>th</sup> St	\$380,000	2022	All in 2	2022								\$ 380,000	\$ 380,000
5 <sup>th</sup> Ave NE	NE 175 <sup>th</sup> St	NE 185 <sup>th</sup> St	\$1,500,000	2020	\$450,000 (2020)	\$1,050,000 (2021)					\$ 450,0	00	\$ 1,050,000		\$ 1,500,000
Linden Ave N	N 175 <sup>th</sup> St	N 182 <sup>nd</sup> St	\$820,000	2018	\$75,000 (2018)	\$745,000 (2019)		\$	75,000	\$ 745,000					\$ 820,000
19 <sup>th</sup> Ave NE	Ballinger Way NE/NE 195 <sup>th</sup> St	NE 205 <sup>th</sup> St	\$330,000	2021	\$99,000 (2021)								\$ 99,000	\$ 231,000	\$ 330,000
N 195 <sup>th</sup> St*	Interurban Trail	Ashworth Ave N	\$443,000	2017	\$60,000 (2018)	\$383,000 (2019)	\$ 60,000	\$	383,000						\$ 443,000
N 192 <sup>nd</sup> St*	Stone Ave N	Ashworth Ave N	\$130,000	2021		\$130,000 (2021)						:	\$ 130,000		\$ 130,000
			\$7,548,000				\$ 172,000	\$ 1	,227,000	\$ 1,519,000	\$ 590,00	00 5	\$ 2,029,000	\$ 2,011,000	\$ 7,548,000

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#### **EMERGING PROJECTS**

The City of Shoreline is currently engaged in several long range planning efforts that will identify additional transportation improvements needed in the City. Because the type and costs of potential projects will not be known until the completion of the planning stage, it is difficult to include them in the TIP at this time. Once the planning process is complete and projects more clearly defined, they can be included in future TIPs.

**Community Renewal Area Projects:** In 2012, the Shoreline City Council designated the 70+ acre Aurora Square area as a Community Renewal Area (CRA) where economic renewal would clearly deliver multifaceted public benefits. The associated CRA Plan adopted in 2013, outlines a vision for the CRA, as well as the need for transportation infrastructure improvements to help achieve that vision. The recently adopted Programmatic EIS for the CRA identifies needed improvements that will enhance multi-modal access to Aurora Square as well as circulation on site. Transportation projects included in the EIS include:

- Intersection improvements at:
  - N 155<sup>th</sup> Street and Westminster Way N
  - N 155<sup>th</sup> Street and Aurora Avenue N
  - N 160<sup>th</sup> Street and Linden Avenue N
  - Aurora Avenue N between Westminster Way N and N 155<sup>th</sup> Street
- Reconfiguration of Westminster Way N/connection to Aurora Avenue N
- Improvements to N 160<sup>th</sup> Street (TIP Project # 12)
- Sidewalks and bicycle facilities on streets leading/connecting to Aurora Square

Once projects are finalized, they will be included in future TIPs. It is expected that redevelopment of the CRA will occur over many years, continuing beyond the six year time frame addressed in this TIP.

#### **Light Rail Station Area Planning:**

In anticipation of the commencement of light rail service in 2023, the City is planning for land use changes around the future stations located in Shoreline at NE 145<sup>th</sup> Street and NE 185<sup>th</sup> Street. Higher residential densities and a mix of land use types near the stations, as well as transit users traveling to the stations will create an increased demand for multi-modal transportation facilities. Transportation impacts and needs associated with future land use changes as well as the necessary solutions to resolve them are outlined in the subarea plans. The redevelopment of the station areas is expected to occur over many decades. The projects needed to accommodate growth in the station areas will be incorporated into future TIPs.

#### **Transit Service Integration Plan**

With the beginning of light rail service in Shoreline in 2023, in the City anticipates significant changes to its transit network. In preparation for this change, the City is planning to develop of a Transit Service Integration Plan (TSIP) that will address transit needs throughout Shoreline when light rail service begins and as the City's population and employment base grow. The plan will identify Shoreline's key transit corridors, evaluate the demand for parking citywide and identify transit facilities and infrastructure needed to support the City's transit network and

service and improve transit level of service, speed and reliability. This information will help identify those infrastructure improvements and capital improvement projects that will be City funded. The TSIP is scheduled for completion in 2016.



#### PROJECTS SCHEDULED FOR SUBSTANTIAL COMPLETION IN 2016

PROJECT NAME	PROJECT DESCRIPTION	COST	FUNDING SOURCES
Aurora Corridor Improvement Project – N 192 <sup>nd</sup> Street to N 205 <sup>th</sup> Street	This project began at N 192nd St and extended to N 205th St. The project scope of work included adding Business Access and Transit (BAT) lanes, curbs, gutters, landscaping/street furnishings, sidewalks on both sides. The project added a landscaped center median safety zone with left turn and U-turn provisions, interconnects traffic signals including pedestrian crosswalks, improved transit stops with new shelters and new street lighting, placed overhead utility lines underground and improved the existing storm water drainage system with natural stormwater management treatments. Improvements at major intersections to enhance east-west traffic flow were also being included in the project. This was the final phase of a three mile long project.	\$45,000,000	Roads Capital, King County Metro, CMAQ, TIB, STP, Regional Mobility, FTA, DOE, HSIP
NE 195 <sup>th</sup> Street Separated Trail – 1 <sup>st</sup> Avenue NE to 5 <sup>th</sup> Avenue NE	This project included design and construction of a ten foot wide separated bicycle and pedestrian trail on the north side of NE 195 <sup>th</sup> St. This project was the final separated trail segment of the Northern Route of the Interurban/Burke-Gilman Connector. This project connects to the separated trail located to the west between Meridian Ave N and 1 <sup>st</sup> Ave NE and leads to the pedestrian and bicycle bridge crossing I-5.	\$705,000	CMAQ, Roads Capital
Interurban/ Burke- Gilman Connectors	<ul> <li>This project constructed improvements to strengthen the connections between Shoreline's Interurban Trail and the Burke-Gilman Trail to the east in Lake Forest Park along two routes identified cooperatively by the Cities of Shoreline and Lake Forest Park. Projects include:         <ul> <li>Completion of the sidewalk gap on the north side of NE 150<sup>th</sup> St between 18<sup>th</sup> Ave NE and 20<sup>th</sup> Ave NE</li> <li>Rechannelization of NE 150<sup>th</sup> St from 15<sup>th</sup> Ave NE to 25<sup>th</sup> Ave NE to provide for bicycle lanes</li> <li>Rechannelization of NE 155<sup>th</sup> St from 5<sup>th</sup> Ave NE to 15<sup>th</sup> Ave NE to provide for bicycle lanes</li> <li>Installation of markings (lanes and sharrows) and signage for bicycles, including signage through Hamlin Park</li> <li>Construction of a short pathway at N 152<sup>nd</sup> Street and Ashworth Avenue N that provides access to the connectors along N 155<sup>th</sup> Street</li> </ul> </li> <li>The City worked with Lake Forest Park to ensure facilities and signage were coordinated.</li> </ul>	\$540,000	WSDOT Pedestrian & Bicycle Safety Program
Safety Enhancements on Aurora Avenue N	This project improved and upgraded safety and accessibility elements on Aurora Ave N. Enhancements included relocation of pedestrian push buttons closer to some curb ramps, installation of skid resistant hand hole/junction box covers and updating street signs to meet current MUTCD standards.	\$420,000	HSIP
Einstein Safe Routes to School (NW 195 <sup>th</sup> Street)	<ul> <li>This project improved pedestrian access to Einstein Middle School through the following projects:</li> <li>Construction of sidewalks where missing on the south side of NW 195<sup>th</sup> St from 3<sup>rd</sup> Ave NW to 8<sup>th</sup> Ave NW</li> </ul>	\$640,000	WSDOT Safe Routes to School Program

	<ul> <li>Construction of a sidewalk on the east side of 5<sup>th</sup> Ave NW between NW 195<sup>th</sup> St and NW 196<sup>th</sup> PI</li> <li>Installation/replacement of curb ramps at the intersections with 3<sup>rd</sup> Ave NW, 5<sup>th</sup> Ave NW and 8<sup>th</sup> Ave NW</li> <li>Installation of four School Zone Flashing Signs on all legs of the NW 195<sup>th</sup> St to 3<sup>rd</sup> Ave NW intersection</li> <li>Improved accessibility into the school campus</li> <li>This project connected into the existing sidewalks, resulting in a continuous sidewalk along this stretch of roadway.</li> </ul>		
145 <sup>th</sup> Street Corridor Study	This project performed a multi-modal corridor study of 145th Street (SR 523) from Bothell Way NE (SR 522) to 3rd Ave NW. Work was performed in conjunction with the City of Seattle, the Washington State Department of Transportation, King County, Metro Transit and Sound Transit. The study undertook an examination of transportation needs for the corridor including safety, traffic, transit and non-motorized needs resulting from anticipated changes in the area such as growth, location of light rail station(s) and regional tolling. The process included traffic analysis, development of a base map, evaluation of multiple potential alternatives and development of a preferred alternative, robust public involvement, creation of cost estimates the various sections of the corridor and identification of a strategy for funding and implementation.	\$596,000	Federal – STP, Roads Capital
10 Avenue NW Bridge Rehabilitation	Hidden Lake Bridge No. 167 C, located on 10th Ave NW at Innis Arden Way was built in 1931 and is showing signs of deterioration and was in need of rehabilitation. In 2014, the bridge condition was evaluated and it was determined that certain measures could be taken to extend the life of the bridge. This project designed and constructed the improvements recommended in the May 2014 Evaluation Report, thereby protecting use of the bridge for pedestrians and vehicles.	\$548,000	Roads Capital