

**CITY COUNCIL AGENDA ITEM**  
CITY OF SHORELINE, WASHINGTON

<b>AGENDA TITLE:</b>	Discussing the 2018-2023 Transportation Improvement Plan
<b>DEPARTMENT:</b>	Public Works
<b>PRESENTED BY:</b>	Nytasha Sowers, Transportation Division Manager
<b>ACTION:</b>	<input type="checkbox"/> Ordinance <input type="checkbox"/> Resolution <input type="checkbox"/> Motion <input type="checkbox"/> Public Hearing <input checked="" type="checkbox"/> 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 submittal 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 state and 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 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 2018 budget process later this fall.

Tonight, Council will discuss the 2018-2023 TIP. The TIP will be brought back to Council on May 15, 2017 for the required Public Hearing and for potential adoption by the City Council.

**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. The vast majority of projects included in the TIP are unfunded or partially funded. Listing projects in the TIP makes them grant eligible, as most grant programs will only fund projects included in a jurisdiction's TIP. Staff will request guidance from Council on how to address under or partially funded projects as part of the development of the 2018-2023 CIP.

**RECOMMENDATION**

No action is required; staff recommends that Council discuss the proposed 2018-2023 TIP. Staff is requesting direction from Council regarding the policy topics outlined in this staff report as well as any revisions to the 2018-2023 TIP, including items that should be added or removed. Council is scheduled to hold the required public hearing and adopt the 2018-2023 TIP on May 15, 2017.

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 2018-2023 CIP. Including projects in the TIP improves the City's eligibility to secure grant funding.

## DISCUSSION

The TIP is prepared and presented to the City 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 2018 budget process this fall.

The draft 2018-2023 TIP (Attachment A) utilizes last year's TIP as its foundation. Projects and programs included in the draft 2018-2023 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 2018-2023 Capital Improvement Plan. All projects identified for 2023 are unfunded, as capital needs in 2023 have not been discussed by Council at this time. Unfunded projects shown in 2018- 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:

- **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.

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 draft 2018-2023 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.

Improvements to the 145<sup>th</sup> and I-5 Interchange and the 145<sup>th</sup> Corridor between I-5 and Aurora have been called out as separate projects as they have both been awarded funding in 2017 and are now in design. Other unfunded projects, such as New Sidewalk Projects and Major Preservation Projects, include several individual projects that could also be designed and constructed individually.

The total cost of all of the projects in the draft 2018-2023 TIP is **\$379,365,740**.

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.

### Grant Match Summary

Project/Revenue	Grant Agency/Program	2017	2018	2019	Balance	Grant Amount
Starting Balance (2014-2020 CIP)					<b>\$ 300,000</b>	
General Fund Contribution (2015-2021 CIP)			\$ 200,000		<b>\$ 500,000</b>	
I-5 and 145 <sup>th</sup> Interchange	PSRC - STP Countywide	\$ 202,500	\$ 405,000			\$ 3,892,500
N/NE 175 <sup>th</sup> Corridor Improvements	PSRC- STP Countywide		\$ 221,400	\$ 332,100	<b>\$ 553,500</b>	\$ 3,546,500
N/NE145th St (Aurora to I-5)	PSRC- STP Countywide	\$ 330,954	\$ 330,000		<b>\$ (265,209)</b>	\$4,235,00
General Fund Contribution (prop. 2016-2021 CIP)		\$ 500,000	\$ 400,000		<b>\$ 634,791</b>	

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

<sup>1</sup> Included with Annual Surface Preservation Program

At the end of 2018, 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 but then due to over allocation of funds has been delayed until a 2018 start. 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 the Council continue to support the grant match fund so that we have the ability and 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 all 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 2018-2023 TIP includes the planning phase for improvements on Ballinger Way – NE 205<sup>th</sup> St to 19<sup>th</sup> Ave NE (Project No. 23). The planning phase is currently unfunded with staff recommending funding be sought to initiate the planning phase in 2018.

### ***Utility Undergrounding***

Undergrounding of overhead utility lines in conjunction with major capital projects is addressed in the Shoreline Municipal Code. Most projects included in the draft 2018-2023 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.

## **COUNCIL GOAL(S) 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. The vast majority of projects included in the TIP are unfunded or partially funded. Listing projects in the TIP makes them grant eligible, as most grant programs will only fund projects included in a jurisdiction's TIP. Staff will request guidance from Council on how to address under or partially funded projects as part of the development of the 2018-2023 CIP.

### **RECOMMENDATION**

No action is required; staff recommends that Council discuss the proposed 2018-2023 TIP. Staff is requesting direction from Council regarding the policy topics outlined in this staff report as well as any revisions to the 2018-2023 TIP, including items that should be added or removed. Council is scheduled to hold the required public hearing and adopt the 2018-2023 TIP on May 15, 2017.

### **ATTACHMENTS**

Attachment A: Draft 2018-2023 Transportation Improvement Plan

## **City of Shoreline 2018-2023 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**

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.

##### Light Rail Station Access Improvements

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 near 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 City of Shoreline is currently working with Sound Transit to identify light rail station access improvements that will support existing and future transportation needs near these stations. In general, the access improvements under discussion will improve access for pedestrians and bicyclists, transit and para transit riders, motorists and "kiss and ride" users. Agreed to improvements will be incorporated into future TIPs.

#### Park and Ride Demand Analysis

With the beginning of light rail service in Shoreline in 2023, in the City is also anticipating significant changes to its transit network. In preparation for this change, the City is evaluating the demand for parking citywide and identifying transit facilities and infrastructure needed to support the City's transit network and service as well as improve transit level of service, speed and reliability. This information will help identify those infrastructure improvements and capital improvement projects that will could City funded and those that could be funded in partnership with transit agencies. The parking study is scheduled for completion in 2017 and identified parking and transit related improvements 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 \$211,106,153.

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 completed in early 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, [nsowers@shorelinewa.gov](mailto:nsowers@shorelinewa.gov).

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. 145<sup>th</sup>/I-5 Interchange Improvements (*partially*)
8. 148<sup>th</sup> Non-motorized Bridge (*partially*)
9. Trail Along the Rail (*partially*)
10. Greenwood/Innis Arden/160<sup>th</sup> Intersection improvements
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. N 160<sup>th</sup>, Aurora to Dayton/Greenwood
15. Westminster and N 155<sup>th</sup> Improvements
16. 15<sup>th</sup> Avenue – 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 145<sup>th</sup> Street to N 205<sup>th</sup> Street
21. NE Perkins Way Improvements – 10<sup>th</sup> Avenue NE to 15<sup>th</sup> Avenue NE
22. N 165<sup>th</sup> Street and Carlyle Hall Road N Sidewalk and Intersection Safety
23. Ballinger Way - NE 205<sup>th</sup> St to 19<sup>th</sup> Ave NE Access Control Preliminary Design
24. N 185<sup>th</sup> Street and Linden Avenue N Intersection Improvements
25. 3<sup>rd</sup> Ave NW and NW Richmond Beach Intersection Improvements
26. New Sidewalks
27. Westminster Way (South), N 155<sup>th</sup> St to Fremont Ave N.
28. 145<sup>th</sup> Street, Aurora to 3<sup>rd</sup> Ave NW

EMERGING PROJECTS

1. Light Rail Station Area Multi-modal Access Improvements
2. Park and Ride Demand Analysis

PROJECT SCHEDULED FOR SUBSTANTIAL COMPLETION IN 2017

1. Echo Lake Safe Routes to School
2. Bicycle System Plan Implementation – Minor Improvements
3. Citywide Radar Speed Signs
4. Meridian Avenue N and N 155<sup>th</sup> Street Intersection Phase Changes

Attachment A

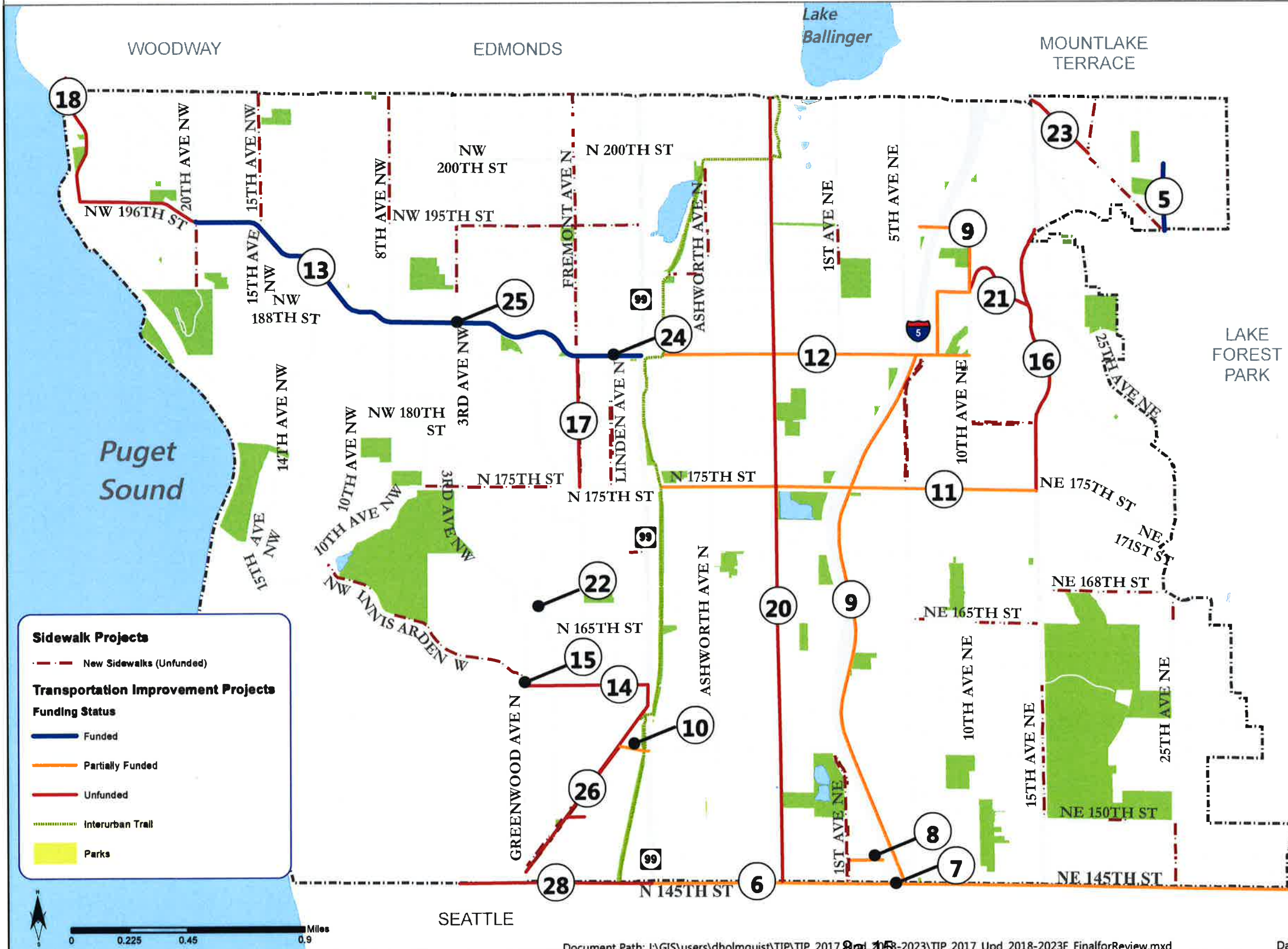
Project	2018 Estimate	2019 Estimate	2020 Estimate	2021 Estimate	2022 Estimate	2023 Estimate	2018-2023 Total
<b>FUNDED PROGRAMS (FULLY OR PARTIALLY)</b>							
1. Curb Ramp, Gutter and Sidewalk Program	\$ 190,000	\$ 190,000	\$ 200,000	\$ 200,000	\$ 200,000	\$ 200,000	\$ 1,180,000
2. Traffic Safety Improvements	\$ 160,775	\$ 163,814	\$ 167,005	\$ 175,355	\$ 184,123	\$ 184,123	\$ 1,035,195
3. Annual Road Surface Maintenance Program	\$ 1,100,000	\$ 1,200,000	\$ 1,200,000	\$ 1,200,000	\$ 1,200,000	\$ 1,200,000	\$ 7,100,000
4. Traffic Signal and Intelligent Transportation System (ITS) Improvements	\$ 121,551	\$ 127,628	\$ 134,010	\$ 140,711	\$ 147,746	\$ 147,746	\$ 819,392
<b>FUNDED PROJECTS (FULLY OR PARTIALLY)</b>							
5. 25th Avenue NE Sidewalk	\$ 60,000	\$ 510,000	\$ 25,000	\$ -	\$ -	\$ -	\$ 595,000
6. 145th Street (SR 523) Corridor Improvements, Aurora Ave N to I-5	\$ 2,448,000	\$ 6,000,000	\$ 7,500,000	\$ 10,000,000	\$ 10,000,000	\$ 6,570,000	\$ 42,518,000
7. SR 523 (N/NE 145th Street) & I-5 Interchange Improvements	\$ 3,000,000	\$ 160,000	\$ -	\$ 10,000,000	\$ 6,840,000	\$ -	\$ 20,000,000
8. 148th Street N Non-motorized Bridge Project	\$ 500,000	\$ 1,600,000	\$ 5,000,000	\$ 5,000,000	\$ 4,000,000	\$ -	\$ 16,100,000
9. Trail Along the Rail	\$ 275,000	\$ 500,000	\$ 500,000	\$ 4,000,000	\$ 3,000,000	\$ 725,000	\$ 9,000,000
10. Westminster and N 155th Improvements	\$ -	\$ 5,500,000	\$ -	\$ -	\$ 7,500,000	\$ 7,500,000	\$ 20,500,000
11. N/NE 175th Street Corridor Improvements	\$ 1,640,000	\$ 2,460,000	\$ 2,200,000	\$ 2,200,000	\$ 7,150,000	\$ 7,150,000	\$ 22,800,000
12. N/NE 185th Street Corridor Improvements	\$ 700,000	\$ -	\$ -	\$ 8,539,000	\$ 8,539,000	\$ 8,539,000	\$ 26,317,000
13. Richmond Beach Rd Rechannelization	\$ 300,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 300,000
<b>UNFUNDED PROJECTS</b>							
14. N 160th from Aurora to Dayton/Greenwood	\$ 100,000	\$ 700,000	\$ 700,000	\$ -	\$ -	\$ -	\$ 1,500,000
15. Greenwood/Innis Arden/160th Intersection Improvements	\$ 100,000	\$ 700,000	\$ 700,000	\$ 1,500,000	\$ 1,500,000	\$ 1,500,000	\$ 6,000,000
16. 15th Avenue NE – NE 175th Street to NE 205th Street	\$ -	\$ -	\$ 6,176,793	\$ -	\$ -	\$ -	\$ 6,176,793
17. Fremont Avenue N – N 175th Street to N 185th Street	\$ -	\$ -	\$ 6,292,720	\$ -	\$ -	\$ -	\$ 6,292,720
18. Point Wells Potential Mitigation Projects	\$ -	\$ -	\$ -	\$ -	\$ 45,490,000	\$ 45,490,000	\$ 90,980,000
19. 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
20. Meridian Avenue N – N 145th Street to N 205th Street	\$ -	\$ -	\$ -	\$ -	\$ 9,117,000	\$ 9,117,000	\$ 18,234,000
21. NE Perkins Way Improvements – 10th Avenue NE to 15th Avenue NE	\$ -	\$ -	\$ 3,681,540	\$ -	\$ -	\$ -	\$ 3,681,540
22. N 165th Street and Carlyle Hall Road N Sidewalk and Intersection Safety	\$ -	\$ -	\$ -	\$ -	\$ 2,482,000	\$ 2,482,000	\$ 4,964,000
23. Ballinger Way - NE 205th St to 19th Ave NE Access Control Preliminary Design	\$ -	\$ 200,000	\$ -	\$ -	\$ -	\$ 10,800,000	\$ 11,000,000
24. N 185th Street and Linden Avenue N Intersection Improvements	\$ -	\$ 530,100	\$ -	\$ -	\$ -	\$ -	\$ 530,100
25. 3rd Ave NW and NW Richmond Beach Rd Intersection Improvements	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,320,000	\$ 2,320,000
26. New Sidewalk Projects	\$ 1,227,000	\$ 6,300,000	\$ 6,300,000	\$ 6,300,000	\$ 6,300,000	\$ 6,300,000	\$ 32,727,000
27. Westminster Way N (South), N 155th St to Fremont Ave NB	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 5,000,000	\$ 5,000,000
28. 145th Street, Aurora Ave N to 3rd Ave NW	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 9,700,000	\$ 9,700,000
							\$ 211,106,153
<b>Total Expenditures by Year</b>	<b>\$ 13,922,326</b>	<b>\$ 28,841,542</b>	<b>\$ 42,777,068</b>	<b>\$ 51,255,066</b>	<b>\$ 115,649,869</b>	<b>\$ 126,924,869</b>	<b>\$ 379,370,740</b>





# Transportation Improvement Program 2018 to 2023

## Individual Project Locations Attachment A



- Fully or Partially Funded Projects**
- 5. 25th Ave NE Sidewalks
  - 6. 145th St (SR 523) Corridor Improvements
  - 7. 145th/I-5 Interchange Improvements
  - 8. 148th Non-motorized Bridge
  - 9. Trail along the Rail
  - 10. Westminster Way N and N 155th St Improvements
  - 11. N/NE 175th St - Corridor Improvements
  - 12. N/NE 185th St - Corridor Improvements
  - 13. Richmond Beach Road - Rechannelization
- Unfunded Projects**
- 14. N 160th St - Aurora Ave N to Dayton/Greenwood Aves
  - 15. Greenwood Ave N/Innis Arden Way/N 160th St - Intersection Improvements
  - 16. 15th Ave NE – NE 175th St to NE 205th St
  - 17. Fremont Ave N – N 175th St to N 185th St
  - 18. Point Wells Potential Mitigation Projects
  - 20. Meridian Ave N - N 145th St to N 205th St
  - 21. NE Perkins Way Improvements - 10th Ave NE to 15th Ave NE
  - 22. N 165th St and Carlyle Hall Rd N - Sidewalk and Intersection Safety
  - 23. Ballinger Way – NE 205th St to 19th Ave NE – Access Control Preliminary Design
  - 24. N 185th St and Linden Ave N - Intersection Improvements
  - 25. 3rd Ave NW and NW Richmond Beach - Intersection Improvements
  - 26. Westminster Way - N 155th St to Fremont Ave N
  - 28. 145th St - Aurora Ave N to 3rd Ave W
- Citywide Improvements**
- Underfunded**
- 1. Curb Ramp, Gutter and Sidewalk Program
  - 2. Traffic Safety Improvements
  - 3. Annual Road Surface Maintenance Program
  - 4. Traffic Signal/ITS Improvements
- Unfunded**
- 19. Major Pavement Rehabilitation Projects
  - 27. New Sidewalk Projects

## PROJECTS SCHEDULED FOR SUBSTANTIAL COMPLETION IN 2017

PROJECT NAME	PROJECT DESCRIPTION	COST	FUNDING SOURCES
Echo Lake Safe Routes to School	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.	\$ 419,000	Safe Routes to School, Roads Cap
Bicycle System Plan Implementation – Minor Improvements	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.	\$ 585, 725	Federal STP and Roads Cap
Citywide Radar Speed Signs	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) "	\$ 121,000	HSIP, Roads Cap
Meridian Avenue N and N 155th Street Intersection Phase Changes	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.	\$359,000	HSIP, Roads Cap



## Project # and Name

### 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.

## Funding

FUNDING SOURCE	PARTIALLY FUNDED					UNFUNDED	2018-2023 Total
	2018 Estimate	2019 Estimate	2020 Estimate	2021 Estimate	2022 Estimate	2023 Estimate	
Roads Capital	\$ 190,000	\$ 190,000	\$ 200,000	\$ 200,000	\$ 200,000	\$ 200,000	\$ 1,180,000

## 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 2017 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, 2018-2023. This program helps to implement City Council Goal 2: Improve Shoreline's utility, transportation, and environmental infrastructure.

## Purpose / Goals Achieved

- |                                                           |                                                           |
|-----------------------------------------------------------|-----------------------------------------------------------|
| <input checked="" type="checkbox"/> Non-motorized         | <input type="checkbox"/> Major Structures                 |
| <input checked="" type="checkbox"/> System Preservation   | <input type="checkbox"/> Interjurisdictional Coordination |
| <input type="checkbox"/> Improves Efficiency & Operations | <input type="checkbox"/> Growth Management                |
| <input checked="" type="checkbox"/> Safety                | <input type="checkbox"/> Corridor Study                   |

**Project # and Name**

**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).

**Funding**

FUNDING SOURCE	PARTIALLY FUNDED					UNFUNDED	2018-2023 Total
	2018 Estimate	2019 Estimate	2020 Estimate	2021 Estimate	2022 Estimate	2023 Estimate	
Roads Capital	\$ 160,775	\$ 163,814	\$ 167,005	\$ 175,355	\$ 184,123	\$ 184,123	\$ 1,035,195

**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, 2018-2022. 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**

- |                                                           |                                                           |
|-----------------------------------------------------------|-----------------------------------------------------------|
| <input checked="" type="checkbox"/> Non-motorized         | <input type="checkbox"/> Major Structures                 |
| <input type="checkbox"/> System Preservation              | <input type="checkbox"/> Interjurisdictional Coordination |
| <input type="checkbox"/> Improves Efficiency & Operations | <input type="checkbox"/> Growth Management                |
| <input checked="" type="checkbox"/> Safety                | <input type="checkbox"/> Corridor Study                   |

**Project # and Name****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.

**Funding**

FUNDING SOURCE	PARTIALLY FUNDED					UNFUNDED	2018-2023 Total
	2018 Estimate	2019 Estimate	2020 Estimate	2021 Estimate	2022 Estimate	2023 Estimate	
Roads Capital	\$ 1,100,000	\$ 1,200,000	\$ 1,200,000	\$ 1,200,000	\$ 1,200,000	\$ 1,200,000	\$ 7,100,000
Federal - STP							\$ -
<b>PROJECT TOTAL</b>	<b>\$ 1,100,000</b>	<b>\$ 1,200,000</b>	<b>\$ 1,200,000</b>	<b>\$ 1,200,000</b>	<b>\$ 1,200,000</b>	<b>\$ 1,200,000</b>	<b>\$ 7,100,000</b>

**Funding Outlook**

This program is currently funded at approximately 50 percent.

**Project Status**

Annual program 2018-2023. This project helps to implement City Council Goal 2: Improve Shoreline's utility, transportation, and environmental infrastructure.

**Purpose / Goals Achieved**

- |                                                                      |                                                           |
|----------------------------------------------------------------------|-----------------------------------------------------------|
| <input checked="" type="checkbox"/> Non-motorized                    | <input type="checkbox"/> Major Structures                 |
| <input checked="" type="checkbox"/> System Preservation              | <input type="checkbox"/> Interjurisdictional Coordination |
| <input checked="" type="checkbox"/> Improves Efficiency & Operations | <input type="checkbox"/> Growth Management                |
| <input checked="" type="checkbox"/> Safety                           | <input type="checkbox"/> Corridor Study                   |

## Project # and Name

### 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.

#### Funding

FUNDING SOURCE	PARTIALLY FUNDED					UNFUNDED	2018-2023 Total
	2018 Estimate	2019 Estimate	2020 Estimate	2021 Estimate	2022 Estimate	2023 Estimate	
Roads Capital	\$ 121,551	\$ 127,628	\$ 134,010	\$ 140,711	\$ 147,746	\$ 147,746	\$ 819,392

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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.

### Project Status

Annual program 2018-2023. This project helps to implement City Council Goal 2: Improve Shoreline's utility, transportation, and environmental infrastructure.

### Purpose / Goals Achieved

- |                                                                      |                                                           |
|----------------------------------------------------------------------|-----------------------------------------------------------|
| <input type="checkbox"/> Non-motorized                               | <input type="checkbox"/> Major Structures                 |
| <input checked="" type="checkbox"/> System Preservation              | <input type="checkbox"/> Interjurisdictional Coordination |
| <input checked="" type="checkbox"/> Improves Efficiency & Operations | <input type="checkbox"/> Growth Management                |
| <input checked="" type="checkbox"/> Safety                           | <input type="checkbox"/> Corridor Study                   |



**Project # and Name**

**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.

**Funding**

FUNDED							
FUNDING SOURCE	2018 Estimate	2019 Estimate	2020 Estimate	2021 Estimate	2022 Estimate	2023 Estimate	2018-2023 Total
Roads Capital	\$ 60,000	\$ 510,000	\$ 25,000				\$ 595,000

**Project Status**

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

**Purpose / Goals Achieved**

- |                                                           |                                                           |
|-----------------------------------------------------------|-----------------------------------------------------------|
| <input checked="" type="checkbox"/> Non-motorized         | <input type="checkbox"/> Major Structures                 |
| <input type="checkbox"/> System Preservation              | <input type="checkbox"/> Interjurisdictional Coordination |
| <input type="checkbox"/> Improves Efficiency & Operations | <input type="checkbox"/> Growth Management                |
| <input checked="" type="checkbox"/> Safety                | <input type="checkbox"/> Corridor Study                   |

**Project # and Name****6. 145th Street (SR 523) Corridor Improvements, Aurora Ave N to I-5****Scope / Narrative**

This project is identified in the 145th Street Multi-modal Corridor Study. The project will make improvements to signalized intersections in order to improve transit service, general purpose traffic, and pedestrian crossings. The project will improve pedestrian facilities along its full length. The Design phase for this project is fully funded. The City is striving to completed the ROW and Construction phases of the project by 2023 by the time the light rail station opens near NE 145th Street and the I-5 Interchange. A specific funding source to complete this project in the desired timeframe has not been identified.

**Funding**

FUNDING SOURCE	FUNDED		UNFUNDED				
	2018 Estimate	2019 Estimate	2020 Estimate	2021 Estimate	2022 Estimate	2023 Estimate	2018-2023 Total
Deign phase. Roads Capital	\$ 330,000						\$ 330,000
Desgn Phase. Federal - STP	\$ 2,118,000						\$ 2,118,000
ROW and Construction - Unknown		\$ 6,000,000	\$ 7,500,000	\$ 10,000,000	\$ 10,000,000	\$ 6,570,000	\$ 40,070,000
<b>PROJECT TOTAL</b>	<b>\$ 2,448,000</b>	<b>\$ 6,000,000</b>	<b>\$ 7,500,000</b>	<b>\$ 10,000,000</b>	<b>\$ 10,000,000</b>	<b>\$ 6,570,000</b>	<b>\$ 42,518,000</b>

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**Funding Outlook**

The estimates for 2019-2023 are included as placeholders. Right of way acquisition costs are estimated to be \$13,500,000 and are unfunded, though Shoreline has set aside \$1,000,000 for this task. Construction costs are estimated to be \$44,966,000 and are unfunded. Shoreline may use a portion of its Connecting Washington funds for this project.

**Project Status**

The project design work will begin in Spring 2017 and is expected to take two years to complete.

**Purpose / Goals Achieved**

- |                                                                      |                                                                      |
|----------------------------------------------------------------------|----------------------------------------------------------------------|
| <input checked="" type="checkbox"/> Non-motorized                    | <input type="checkbox"/> Major Structures                            |
| <input type="checkbox"/> System Preservation                         | <input checked="" type="checkbox"/> Interjurisdictional Coordination |
| <input checked="" type="checkbox"/> Improves Efficiency & Operations | <input type="checkbox"/> Growth Management                           |
| <input checked="" type="checkbox"/> Safety                           | <input type="checkbox"/> Corridor Study                              |

**Project # and Name****7. SR 523 (N/NE 145th Street) & I-5 Interchange Improvements****Scope / Narrative**

This project will improve traffic operations through the 145th Street and I-5 Interchange while also accomodating additional non-motorized users. The project will add a new northbound I-5 onramp, extend left turn lane capacity, and add a new non-motorized bridge spanning I-5. The Design phase for this project is fully funded. The City is striving to completed the ROW and Construction phases of the project by 2023 by the time the light rail station opens near NE 145th Street and the I-5 Interchange. A specific funding source to complete this project in the desired timeframe has not been identified. Connecting Washington Funds are available to apply to corridor improvements in 2026. The City is working on a strategy to utelize these funds early to enable construction of the project to be complete by 2023.

**Funding**

FUNDING SOURCE	UNFUNDED						2018-2023 Total
	2018 Estimate	2019 Estimate	2020 Estimate	2021 Estimate	2022 Estimate	2023 Estimate	
STP	\$ 2,595,000						
Roads Capital	\$ 405,000						
Unknown		\$ 160,000		\$ 10,000,000	\$ 6,840,000		
<b>PROJECT TOTAL</b>	<b>\$ 3,000,000</b>	<b>\$ 160,000</b>	<b>\$ -</b>	<b>\$ 10,000,000</b>	<b>\$ 6,840,000</b>	<b>\$ -</b>	<b>\$ 20,000,000</b>

**Project Status**

The project design will begin in Spring 2017.

**Purpose / Goals Achieved**

- |                                                                      |                                                                      |
|----------------------------------------------------------------------|----------------------------------------------------------------------|
| <input checked="" type="checkbox"/> Non-motorized                    | <input checked="" type="checkbox"/> Major Structures                 |
| <input type="checkbox"/> System Preservation                         | <input checked="" type="checkbox"/> Interjurisdictional Coordination |
| <input checked="" type="checkbox"/> Improves Efficiency & Operations | <input type="checkbox"/> Growth Management                           |
| <input checked="" type="checkbox"/> Safety                           | <input type="checkbox"/> Corridor Study                              |



**Project # and Name****8. 148th Street N Non-motorized Bridge Project****Scope / Narrative**

This project will provide a new non-motorized bridge crossing over I-5 from the neighborhood in the vicinity of the N 148th Street to the 145th Street Light Rail Station.

**Funding**

FUNDING SOURCE	UNFUNDED						2018-2023 Total
	2018 Estimate	2019 Estimate	2020 Estimate	2021 Estimate	2022 Estimate	2023 Estimate	
30% Design and Enviro Review - CIP	\$ 500,000						\$ 500,000
Final Design and Permitting - unknown		\$ 1,600,000					\$ 1,600,000
Construction - unknown			\$ 5,000,000	\$ 5,000,000	\$ 4,000,000		\$ 14,000,000
<b>PROJECT TOTAL</b>	<b>\$ 500,000</b>	<b>\$ 1,600,000</b>	<b>\$ 5,000,000</b>	<b>\$ 5,000,000</b>	<b>\$ 4,000,000</b>	<b>\$ -</b>	<b>\$ 16,100,000</b>

**Funding Outlook**

The total cost for this project is estimated to be approximately \$16 million. Design phase will be complete in 2018 and construction will be completed in 2023.

**Project Status**

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

**Purpose / Goals Achieved**

- |                                                           |                                                                      |
|-----------------------------------------------------------|----------------------------------------------------------------------|
| <input checked="" type="checkbox"/> Non-motorized         | <input checked="" type="checkbox"/> Major Structures                 |
| <input type="checkbox"/> System Preservation              | <input checked="" type="checkbox"/> Interjurisdictional Coordination |
| <input type="checkbox"/> Improves Efficiency & Operations | <input type="checkbox"/> Growth Management                           |
| <input checked="" type="checkbox"/> Safety                | <input type="checkbox"/> Corridor Study                              |

**Project # and Name**

**9. Trail Along the Rail**

**Scope / Narrative**

This project will provide an approximately 2.5 mile multi-use trail that roughly parallels the Lynnwood Link Light Rail guideway from 145th Street Station through the 185th Street Station and to the 195th Street Pedestrian Overcrossing.

**Funding**

FUNDING SOURCE	FUNDED						2018-2023 Total
	2018 Estimate	2019 Estimate	2020 Estimate	2021 Estimate	2022 Estimate	2023 Estimate	
30% Design and Enviro Review - CIP	\$ 275,000						\$ 275,000
Final Design and Permitting - unknown		\$ 500,000	\$ 500,000				
Construction - unknown				\$ 4,000,000	\$ 3,000,000	\$ 725,000	
							\$ -
<b>PROJECT TOTAL</b>	<b>\$ 275,000</b>	<b>\$ 500,000</b>	<b>\$ 500,000</b>	<b>\$ 4,000,000</b>	<b>\$ 3,000,000</b>	<b>\$ 725,000</b>	<b>\$ 9,000,000</b>

**Funding Outlook**

The total cost for this project is estimated to be approximately \$9 million. Design phase will be complete in 2018 and construction will be completed in 2023.

**Project Status**

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

**Purpose / Goals Achieved**

- |                                                           |                                                                      |
|-----------------------------------------------------------|----------------------------------------------------------------------|
| <input checked="" type="checkbox"/> Non-motorized         | <input type="checkbox"/> Major Structures                            |
| <input type="checkbox"/> System Preservation              | <input checked="" type="checkbox"/> Interjurisdictional Coordination |
| <input type="checkbox"/> Improves Efficiency & Operations | <input type="checkbox"/> Growth Management                           |
| <input checked="" type="checkbox"/> Safety                | <input type="checkbox"/> Corridor Study                              |

**Project # and Name****10. Westminister and N 155th Improvements****Scope / Narrative**

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

- a. Realign the intersection at N 155th St and Westminister Way N. This project improves the main vehicle intersection and increases safety for pedestrians and bicyclists. Includes improvements to the section of N 155th St between Westminister Way N and Aurora Ave N. Most effectively done at one time and in conjunction with the redevelopment of the Sears property.
- b. Create a more pedestrian and bicycle friendly Westminister Way N from 200' SW of N 155th St to N 157th St. Envisioned as a project in the Aurora Square CRA Renewal Plan, reworking Westminister 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.
- c. Construct a one-way N 157th St from Westminister Way N to Aurora Ave N. New street connection makes Westminister 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 alleviates congestion at the N 155th St Intersection. Most effectively completed with the redevelopment of the triangle property.

**Funding**

FUNDING SOURCE	UNFUNDED						2018-2023 Total
	2018 Estimate	2019 Estimate	2020 Estimate	2021 Estimate	2022 Estimate	2023 Estimate	
Re-construct N 160th from Aurora to Dayton with bike lanes, sidewalks, and possibly a new signalized intersection - Unknown					\$ 7,500,000	\$ 7,500,000	\$ 15,000,000
N 155th St (West) including intersection at Westminister - Unknown		\$ 2,500,000					\$ 2,500,000
Westminister Way N (North) N 157th to Aurora - Unknown		\$ 1,500,000					\$ 1,500,000
Construct N 157th St - Unknown		\$ 1,500,000					\$ 1,500,000
<b>PROJECT TOTAL</b>	\$ -	\$ 5,500,000	\$ -	\$ -	\$ 7,500,000	\$ 7,500,000	\$ 20,500,000

Continued on next page

**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.

**Purpose / Goals Achieved**

- |                                                                      |                                                                      |
|----------------------------------------------------------------------|----------------------------------------------------------------------|
| <input checked="" type="checkbox"/> Non-motorized                    | <input type="checkbox"/> Major Structures                            |
| <input type="checkbox"/> System Preservation                         | <input checked="" type="checkbox"/> Interjurisdictional Coordination |
| <input checked="" type="checkbox"/> Improves Efficiency & Operations | <input checked="" type="checkbox"/> Growth Management                |
| <input checked="" type="checkbox"/> Safety                           | <input checked="" type="checkbox"/> Corridor Study                   |

**Project # and Name****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.

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*

<b>Funding</b>							
<b>FUNDING SOURCE</b>	<b>FUNDED</b>		<b>UNFUNDED</b>				<b>2018-2023 Total</b>
	<b>2018 Estimate</b>	<b>2019 Estimate</b>	<b>2020 Estimate</b>	<b>2021 Estimate</b>	<b>2022 Estimate</b>	<b>2023 Estimate</b>	
Design and Enviro Review - Federal STP	\$ 1,418,600	\$ 2,127,900					
Design and Enviro Review - Impact Fees	\$ 221,400	\$ 332,100					
ROW- Unfunded			\$1,903,000.00	\$ 1,903,000			
ROW - Impact Fees			\$297,000.00	\$ 297,000			
Construction - Unfunded					\$ 6,184,750	\$ 6,184,750	
Construction - Impact Fees					\$ 965,250	\$ 965,250	
<b>PROJECT TOTAL</b>	<b>\$ 1,640,000</b>	<b>\$ 2,460,000</b>	<b>\$ 2,200,000</b>	<b>\$ 2,200,000</b>	<b>\$ 7,150,000</b>	<b>\$ 7,150,000</b>	<b>\$ 22,800,000</b>

### 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

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

### Purpose / Goals Achieved

- |                                                                      |                                                                      |
|----------------------------------------------------------------------|----------------------------------------------------------------------|
| <input checked="" type="checkbox"/> Non-motorized                    | <input type="checkbox"/> Major Structures                            |
| <input checked="" type="checkbox"/> System Preservation              | <input checked="" type="checkbox"/> Interjurisdictional Coordination |
| <input checked="" type="checkbox"/> Improves Efficiency & Operations | <input checked="" type="checkbox"/> Growth Management                |
| <input checked="" type="checkbox"/> Safety                           | <input checked="" type="checkbox"/> Corridor Study                   |



**Project # and Name**

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

**Scope / Narrative**

185th Street Corridor Strategy will 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. Individual improvements projects\* that come out of the plan could be 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.

\*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 for 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.

Funding							
FUNDING SOURCE	FUNDED		UNFUNDED				2018-2023 Total
	2018 Estimate	2019 Estimate	2020 Estimate	2021 Estimate	2022 Estimate	2023 Estimate	
185 <sup>th</sup> St Corridor Strategy (CIP)	\$700,000						\$ 700,000
NE 185 <sup>th</sup> St – 1 <sup>st</sup> Ave NE to 7 <sup>th</sup> Ave NE and 7 <sup>th</sup> Ave NE to 10 <sup>th</sup> Ave NE(a) - unknown				\$231,000	\$231,000	\$231,000	\$ 693,000
NE 185 <sup>th</sup> St – 1 <sup>st</sup> Ave NE to 7 <sup>th</sup> Ave NE (a) – impact fee				\$78,000	\$78,000	\$78,000	\$ 234,000
N 185 <sup>th</sup> St and Meridian Ave N(b) - unknown				\$4,110,000	\$4,110,000	\$4,110,000	\$ 12,330,000
N 185 <sup>th</sup> St and Meridian Ave N (b) – impact fee				\$1,370,000	\$1,370,000	\$1,370,000	\$ 4,110,000
N 185 <sup>th</sup> St – Midvale Ave N to Stone Ave N (c) - unknown				\$550,000	\$550,000	\$550,000	\$ 1,650,000
NE 185 <sup>th</sup> St – Midvale Ave N – 10 <sup>th</sup> Ave NE (d) - unknown				\$2,200,000	\$2,200,000	\$2,200,000	\$ 6,600,000
N/NE 185th Street Corridor Study (e) - unknown							\$ -
<b>PROJECT TOTAL</b>	<b>\$ 700,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 8,539,000</b>	<b>\$ 8,539,000</b>	<b>\$ 8,539,000</b>	<b>\$ 26,317,000</b>

Continued on next page

**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**

- |                                                                      |                                                           |
|----------------------------------------------------------------------|-----------------------------------------------------------|
| <input checked="" type="checkbox"/> Non-motorized                    | <input type="checkbox"/> Major Structures                 |
| <input checked="" type="checkbox"/> System Preservation              | <input type="checkbox"/> Interjurisdictional Coordination |
| <input checked="" type="checkbox"/> Improves Efficiency & Operations | <input checked="" type="checkbox"/> Growth Management     |
| <input checked="" type="checkbox"/> Safety                           | <input checked="" type="checkbox"/> Corridor Study        |



**Project # and Name****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 which will provide a space for people biking as well as provide a buffer between pedestrians and vehicle traffic.

**Funding**

FUNDING SOURCE	PARTIALLY FUNDED					UNFUNDED	2018-2023 Total
	2018 Estimate	2019 Estimate	2020 Estimate	2021 Estimate	2022 Estimate	2023 Estimate	
Roads Capital Fund	\$ 300,000						\$ 300,000

**Funding Outlook**

This project did not receive funding from the Citywide Safety Grant administered through WSDOT. The City's Roads Capital Fund currently has \$200k allocated toward the project. During the Summer 2017 budget process, staff will try to secure the additional funding needed.

**Project Status**

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

**Purpose / Goals Achieved**

- |                                                                      |                                                           |
|----------------------------------------------------------------------|-----------------------------------------------------------|
| <input checked="" type="checkbox"/> Non-motorized                    | <input type="checkbox"/> Major Structures                 |
| <input type="checkbox"/> System Preservation                         | <input type="checkbox"/> Interjurisdictional Coordination |
| <input checked="" type="checkbox"/> Improves Efficiency & Operations | <input type="checkbox"/> Growth Management                |
| <input checked="" type="checkbox"/> Safety                           | <input type="checkbox"/> Corridor Study                   |

**Project # and Name****14. N 160th from Aurora to Dayton/Greenwood****Scope / Narrative**

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 2018. 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.

**Funding**

FUNDING SOURCE	UNFUNDED						2018-2023 Total
	2018 Estimate	2019 Estimate	2020 Estimate	2021 Estimate	2022 Estimate	2023 Estimate	
Greenwood/ N 160th St/ Innis Arden intersection	\$ 100,000	\$ 700,000	\$ 700,000				\$ 1,500,000
<b>PROJECT TOTAL</b>	\$ 100,000	\$ 700,000	\$ 700,000	\$ -	\$ -	\$ -	\$ 1,500,000

**Funding Outlook**

This project assumes funding by King County for restriping to three lanes with a bike lane. It assumes pedestrian improvements will be made 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.

**Purpose / Goals Achieved**

- |                                                                      |                                                                      |
|----------------------------------------------------------------------|----------------------------------------------------------------------|
| <input checked="" type="checkbox"/> Non-motorized                    | <input type="checkbox"/> Major Structures                            |
| <input type="checkbox"/> System Preservation                         | <input checked="" type="checkbox"/> Interjurisdictional Coordination |
| <input checked="" type="checkbox"/> Improves Efficiency & Operations | <input type="checkbox"/> Growth Management                           |
| <input checked="" type="checkbox"/> Safety                           | <input checked="" type="checkbox"/> Corridor Study                   |

**Project # and Name****15. Greenwood/Innis Arden/160th Intersection Improvements****Scope / Narrative**

Reconstruct Greenwood/Innis Arden/160th intersection for improved operations. Project also includes sidewalks between Dayton and Greenwood.

**Funding**

FUNDING SOURCE	FUNDED						2018-2023 Total
	2018 Estimate	2019 Estimate	2020 Estimate	2021 Estimate	2022 Estimate	2023 Estimate	
Shoreline Community College/Unknown	\$ 100,000	\$ 700,000	\$ 700,000	\$ 1,500,000	\$ 1,500,000	\$ 1,500,000	\$ 6,000,000
				\$ -	\$ -	\$ -	
<b>PROJECT TOTAL</b>	<b>\$ 100,000</b>	<b>\$ 700,000</b>	<b>\$ 700,000</b>	<b>\$ 1,500,000</b>	<b>\$ 1,500,000</b>	<b>\$ 1,500,000</b>	<b>\$ 6,000,000</b>

**Funding Outlook**

This project assumes partial funding from Shoreline Community College. 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.

**Purpose / Goals Achieved**

- |                                                           |                                                           |
|-----------------------------------------------------------|-----------------------------------------------------------|
| <input checked="" type="checkbox"/> Non-motorized         | <input type="checkbox"/> Major Structures                 |
| <input type="checkbox"/> System Preservation              | <input type="checkbox"/> Interjurisdictional Coordination |
| <input type="checkbox"/> Improves Efficiency & Operations | <input type="checkbox"/> Growth Management                |
| <input checked="" type="checkbox"/> Safety                | <input type="checkbox"/> Corridor Study                   |

**Project # and Name**

**16. 15th Avenue NE – NE 175th Street to NE 205th 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 205th 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**

FUNDING SOURCE	UNFUNDED						2018-2023 Total
	2018 Estimate	2019 Estimate	2020 Estimate	2021 Estimate	2022 Estimate	2023 Estimate	
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**

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

**Purpose / Goals Achieved**

- |                                                                      |                                                           |
|----------------------------------------------------------------------|-----------------------------------------------------------|
| <input checked="" type="checkbox"/> Non-motorized                    | <input type="checkbox"/> Major Structures                 |
| <input type="checkbox"/> System Preservation                         | <input type="checkbox"/> Interjurisdictional Coordination |
| <input checked="" type="checkbox"/> Improves Efficiency & Operations | <input type="checkbox"/> Growth Management                |
| <input checked="" type="checkbox"/> Safety                           | <input checked="" type="checkbox"/> Corridor Study        |

**Project # and Name**

**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**

UNFUNDED							
FUNDING SOURCE	2018 Estimate	2019 Estimate	2020 Estimate	2021 Estimate	2022 Estimate	2023 Estimate	2018-2023 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**

- |                                                           |                                                                      |
|-----------------------------------------------------------|----------------------------------------------------------------------|
| <input checked="" type="checkbox"/> Non-motorized         | <input type="checkbox"/> Major Structures                            |
| <input type="checkbox"/> System Preservation              | <input checked="" type="checkbox"/> Interjurisdictional Coordination |
| <input type="checkbox"/> Improves Efficiency & Operations | <input type="checkbox"/> Growth Management                           |
| <input checked="" type="checkbox"/> Safety                | <input type="checkbox"/> Corridor Study                              |



## Project # and Name

### 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 techniques 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 paralleling the Richmond Beach Road corridor.

*Continued on next page*

<b>Funding</b>							
<b>FUNDING SOURCE</b>	<b>UNFUNDED</b>						<b>2018-2023 Total</b>
	<b>2018 Estimate</b>	<b>2019 Estimate</b>	<b>2020 Estimate</b>	<b>2021 Estimate</b>	<b>2022 Estimate</b>	<b>2023 Estimate</b>	
NW 195th/196 <sup>th</sup> St – Richmond Beach Dr NW to 24 <sup>th</sup> Ave NW (a) – developer mitigation					\$1,500,000	\$1,500,000	\$ 3,000,000
NW 196 <sup>th</sup> St – 24 <sup>th</sup> Ave NW to 20 <sup>th</sup> Ave NW (b) – developer mitigation					\$300,000	\$300,000	\$ 600,000
NW 195 <sup>th</sup> St at 20 <sup>th</sup> Ave NW (c) – developer mitigation					\$1,340,000	\$1,340,000	\$ 2,680,000
NW Richmond Beach Road at 15 <sup>th</sup> Ave NW (d) – developer mitigation					\$2,210,000	\$2,210,000	\$ 4,420,000
Richmond Beach Dr NW – NW 196 <sup>th</sup> St to NW 205 <sup>th</sup> St: (e) – developer mitigation					\$18,250,000	\$18,250,000	\$ 36,500,000
NW Richmond Beach Rd at 8 <sup>th</sup> Ave NW: (f) – developer mitigation					\$2,140,000	\$2,140,000	\$ 4,280,000
NW/N Richmond Beach Rd - Richmond Beach Dr NW to Fremont Ave N (g) – developer mitigation					\$4,000,000	\$4,000,000	\$ 8,000,000
Off-Corridor Sidewalk/Pedestrian Safety Improvements (h) – developer mitigation					\$15,050,000	\$15,050,000	\$ 30,100,000
Traffic Calming and Bicycle Improvements (i) - developer mitigation					\$700,000	\$700,000	\$ 1,400,000
<b>PROJECT TOTAL</b>	\$ -	\$ -	\$ -	\$ -	\$ 45,490,000	\$ 45,490,000	\$ <b>90,980,000</b>

Continued on next page

**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**

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

**Purpose / Goals Achieved**

- |                                                                      |                                                                      |
|----------------------------------------------------------------------|----------------------------------------------------------------------|
| <input checked="" type="checkbox"/> Non-motorized                    | <input type="checkbox"/> Major Structures                            |
| <input checked="" type="checkbox"/> System Preservation              | <input checked="" type="checkbox"/> Interjurisdictional Coordination |
| <input checked="" type="checkbox"/> Improves Efficiency & Operations | <input checked="" type="checkbox"/> Growth Management                |
| <input checked="" type="checkbox"/> Safety                           | <input checked="" type="checkbox"/> Corridor Study                   |



**Project # and Name****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
- 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 Pl NW: 23rd Ave NW to 20th Ave NW
- 21st Pl NW: 21st Ave NW to 23rd Pl 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

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.

**Funding**

FUNDING SOURCE	UNFUNDED						2018-2023 Total
	2018 Estimate	2019 Estimate	2020 Estimate	2021 Estimate	2022 Estimate	2023 Estimate	
Unknown	\$ 2,000,000	\$ 2,000,000	\$ 2,000,000	\$ 2,000,000	\$ 2,000,000	\$ 2,000,000	\$ 12,000,000

*Continued on next page*

### 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

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

### Purpose / Goals Achieved

- |                                                           |                                                           |
|-----------------------------------------------------------|-----------------------------------------------------------|
| <input checked="" type="checkbox"/> Non-motorized         | <input type="checkbox"/> Major Structures                 |
| <input checked="" type="checkbox"/> System Preservation   | <input type="checkbox"/> Interjurisdictional Coordination |
| <input type="checkbox"/> Improves Efficiency & Operations | <input type="checkbox"/> Growth Management                |
| <input checked="" type="checkbox"/> Safety                | <input type="checkbox"/> Corridor Study                   |

**Project # and Name****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).

**Funding**

	UNFUNDED						
FUNDING SOURCE	2018 Estimate	2019 Estimate	2020 Estimate	2021 Estimate	2022 Estimate	2023 Estimate	2018-2023 Total
Unknown					\$6,590,000	\$6,590,000	\$ 13,180,000
Roads Capital							\$ -
Federal - STP							\$ -
Impact Fee					\$2,527,000	\$2,527,000	\$ 5,054,000
<b>PROJECT TOTAL</b>	\$ -	\$ -	\$ -	\$ -	\$ 9,117,000	\$ 9,117,000	<b>\$ 18,234,000</b>

*Continued on next page*

### 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.

### Project Status

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

### Purpose / Goals Achieved

- |                                                                      |                                                                      |
|----------------------------------------------------------------------|----------------------------------------------------------------------|
| <input checked="" type="checkbox"/> Non-motorized                    | <input type="checkbox"/> Major Structures                            |
| <input checked="" type="checkbox"/> System Preservation              | <input checked="" type="checkbox"/> Interjurisdictional Coordination |
| <input checked="" type="checkbox"/> Improves Efficiency & Operations | <input checked="" type="checkbox"/> Growth Management                |
| <input checked="" type="checkbox"/> Safety                           | <input type="checkbox"/> Corridor Study                              |

**Project # and Name**

**21. 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 installation 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**

UNFUNDED							
FUNDING SOURCE	2018 Estimate	2019 Estimate	2020 Estimate	2021 Estimate	2022 Estimate	2023 Estimate	2018-2023 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**

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

**Purpose / Goals Achieved**

- |                                                           |                                                           |
|-----------------------------------------------------------|-----------------------------------------------------------|
| <input checked="" type="checkbox"/> Non-motorized         | <input type="checkbox"/> Major Structures                 |
| <input type="checkbox"/> System Preservation              | <input type="checkbox"/> Interjurisdictional Coordination |
| <input type="checkbox"/> Improves Efficiency & Operations | <input type="checkbox"/> Growth Management                |
| <input checked="" type="checkbox"/> Safety                | <input checked="" type="checkbox"/> Corridor Study        |

**Project # and Name**

**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**

UNFUNDED							
FUNDING SOURCE	2018 Estimate	2019 Estimate	2020 Estimate	2021 Estimate	2022 Estimate	2023 Estimate	2018-2023 Total
Unknown					\$ 2,482,000	\$ 2,482,000	\$ 4,964,000

**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 2022. More refined construction costs and a timeline for completion will be updated in future TIPs.

**Project Status**

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

**Purpose / Goals Achieved**

- |                                                                      |                                                           |
|----------------------------------------------------------------------|-----------------------------------------------------------|
| <input checked="" type="checkbox"/> Non-motorized                    | <input type="checkbox"/> Major Structures                 |
| <input type="checkbox"/> System Preservation                         | <input type="checkbox"/> Interjurisdictional Coordination |
| <input checked="" type="checkbox"/> Improves Efficiency & Operations | <input type="checkbox"/> Growth Management                |
| <input checked="" type="checkbox"/> Safety                           | <input type="checkbox"/> Corridor Study                   |



**Project # and Name**

**23. 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 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**

FUNDING SOURCE	PARTIALLY FUNDED					UNFUNDED	2018-2023 Total
	2018 Estimate	2019 Estimate	2020 Estimate	2021 Estimate	2022 Estimat	2023 Estimate	
Unknown		\$ 200,000				\$ 10,800,000	\$ 11,000,000

**Funding Outlook**

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

**Project Status**

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

**Purpose / Goals Achieved**

- |                                                                      |                                                           |
|----------------------------------------------------------------------|-----------------------------------------------------------|
| <input checked="" type="checkbox"/> Non-motorized                    | <input type="checkbox"/> Major Structures                 |
| <input type="checkbox"/> System Preservation                         | <input type="checkbox"/> Interjurisdictional Coordination |
| <input checked="" type="checkbox"/> Improves Efficiency & Operations | <input type="checkbox"/> Growth Management                |
| <input checked="" type="checkbox"/> Safety                           | <input type="checkbox"/> Corridor Study                   |

**Project # and Name**

**24. 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**

FUNDING SOURCE	PARTIALLY FUNDED					UNFUNDED	2018-2023 Total
	2018 Estimate	2019 Estimate	2020 Estimate	2021 Estimate	2022 Estimate	2023 Estimate	
Unknown		\$ 530,100					\$ 530,100

**Funding Outlook**

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

**Project Status**

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

**Purpose / Goals Achieved**

- |                                                                      |                                                           |
|----------------------------------------------------------------------|-----------------------------------------------------------|
| <input checked="" type="checkbox"/> Non-motorized                    | <input type="checkbox"/> Major Structures                 |
| <input checked="" type="checkbox"/> System Preservation              | <input type="checkbox"/> Interjurisdictional Coordination |
| <input checked="" type="checkbox"/> Improves Efficiency & Operations | <input type="checkbox"/> Growth Management                |
| <input checked="" type="checkbox"/> Safety                           | <input type="checkbox"/> Corridor Study                   |

**Project # and Name**

**25. 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 with Project #29.

**Funding**

FUNDING SOURCE	PARTIALLY FUNDED					UNFUNDED	2018-2023 Total
	2018 Estimate	2019 Estimate	2020 Estimate	2021 Estimate	2022 Estimate	2023 Estimate	
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 intersection.

**Project Status**

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

**Purpose / Goals Achieved**

- |                                                                      |                                                           |
|----------------------------------------------------------------------|-----------------------------------------------------------|
| <input checked="" type="checkbox"/> Non-motorized                    | <input type="checkbox"/> Major Structures                 |
| <input checked="" type="checkbox"/> System Preservation              | <input type="checkbox"/> Interjurisdictional Coordination |
| <input checked="" type="checkbox"/> Improves Efficiency & Operations | <input type="checkbox"/> Growth Management                |
| <input checked="" type="checkbox"/> Safety                           | <input type="checkbox"/> Corridor Study                   |

**Project # and Name**

**26. Westminster Way N (South). N 155th St to Fremont Ave NB Frontage Impro**

**Scope / Narrative**

Frontage and channelization improvements including widening sidewalks and/or a multi-use trail, installation of a planted median and ADA improvements at intersections.

**Funding**

FUNDING SOURCE	PARTIALLY FUNDED					UNFUNDED	2018-2023 Total
	2018 Estimate	2019 Estimate	2020 Estimate	2021 Estimate	2022 Estimate	2023 Estimate	
Unkown						\$ 5,000,000	\$ 5,000,000

**Funding Outlook**

This 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.

**Purpose / Goals Achieved**

- |                                                           |                                                           |
|-----------------------------------------------------------|-----------------------------------------------------------|
| <input checked="" type="checkbox"/> Non-motorized         | <input type="checkbox"/> Major Structures                 |
| <input type="checkbox"/> System Preservation              | <input type="checkbox"/> Interjurisdictional Coordination |
| <input type="checkbox"/> Improves Efficiency & Operations | <input type="checkbox"/> Growth Management                |
| <input type="checkbox"/> Safety                           | <input type="checkbox"/> Corridor Study                   |

**Project # and Name**

**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**

FUNDING SOURCE	UNFUNDED						2018-2023 Total
	2018 Estimate	2019 Estimate	2020 Estimate	2021 Estimate	2022 Estimate	2023 Estimate	
Unknown	\$ 1,227,000	\$ 6,300,000	\$ 6,300,000	\$ 6,300,000	\$ 6,300,000	\$ 6,300,000	\$ 32,727,000

**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.

The City is starting a Sidewalk Prioritization process that will look at how to package and fund high and medium ranked projects from the City's current list. The rough order of magnitude estimate for improvements is \$127 million which if implemented evenly over 20 years would be ~\$6.3 million per year.

**Project Status**

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

**Purpose / Goals Achieved**

- |                                                           |                                                           |
|-----------------------------------------------------------|-----------------------------------------------------------|
| <input checked="" type="checkbox"/> Non-motorized         | <input type="checkbox"/> Major Structures                 |
| <input type="checkbox"/> System Preservation              | <input type="checkbox"/> Interjurisdictional Coordination |
| <input type="checkbox"/> Improves Efficiency & Operations | <input type="checkbox"/> Growth Management                |
| <input checked="" type="checkbox"/> Safety                | <input type="checkbox"/> Corridor Study                   |



	STREET	FROM	TO	PROJECT DESCRIPTION	FUNDING STRATEGY	COST	ESTIMATED PROJECT START YEAR
1	20 <sup>th</sup> Ave NW	Saltwater Park entrance	NW 195 <sup>th</sup> St	Construct a separated path on the east side of the street.	Park/Trail Bond, TIB – Sidewalk Program	\$700,000	2019
2	1 <sup>st</sup> Ave NE	NE 192 <sup>nd</sup> St	NE 195 <sup>th</sup> St	Construct a sidewalks to fill in gaps on the west and east sides of the street.	TIB – Sidewalk Program, CIP, Voter Approved Bond, City, General Fund,	\$955,000	2019
3	Ashworth Ave N	N 195 <sup>th</sup> St	N 200 <sup>th</sup> St	Construct sidewalks on the west side of the street from N 195 <sup>th</sup> St to 200 <sup>th</sup> St, replace the asphalt walkway on the east side of the street in front of Echo Lake Elementary school and install curb ramps at the N 195 <sup>th</sup> St intersection. This project could be combined with Sidewalk Projects #9, 10 and/or 11.	Safe Routes to School, CIP, Voter Approved Bond, City General Fund	\$890,000	2019
4	NW/N 195 <sup>th</sup> St	3 <sup>rd</sup> Ave NW	Aurora Ave N	Construct sidewalks on the south side of the street. This project could be combined with Sidewalk Project #5.	Safe Routes to School, CIP, Voter Approved Bond, City General Fund	\$1,400,000	2021
5	3 <sup>rd</sup> Ave NW	NW 189 <sup>th</sup> St	NW 195 <sup>th</sup> St	Construct sidewalks to fill in gaps on the east side of the street. This project could be combined with Sidewalk Project #4.	TIB – Sidewalk Program, CIP, Voter Approved Bond, City, General Fund	\$380,000	2021
6	5 <sup>th</sup> Ave NE	NE 175 <sup>th</sup> St	NE 185 <sup>th</sup> St	Construct sidewalks on the west and east sides of the street.	Sound Transit mitigation, CIP, Voter Approved Bond, City General Fund	\$1,500,000	2020
7	Linden Ave N	N 175 <sup>th</sup> St	N 182 <sup>nd</sup> St	Construct sidewalks to fill in gaps on the east side of the street. Update scope and budget	Safe Routes to School, Private Development Mitigation, CIP, Voter Approved Bond, City General Fund	\$776,000	2019
8	19 <sup>th</sup> Ave NE	Ballinger Way NE/NE 195 <sup>th</sup> St	NE 205 <sup>th</sup> St	Construct sidewalks to fill in gaps on the northwest side of the street.	CIP, Voter Approved Bond, City General Fund	\$330,000	2019
9	N 195 <sup>th</sup> St*	Interurban Trail	Ashworth Ave N	Construct a sidewalk on the south side of the street. This project could be combined with Sidewalk Project #3.	Safe Routes to School, CIP, Voter Approved Bond, City General Fund	\$257,000	2019
10	N 192 <sup>nd</sup> St*	Stone Ave N	Ashworth Ave N	Construct sidewalks on the south side of the street from Stone Ave N to Ashworth Ave N; narrow the Interurban Trail crossing at N 192 <sup>nd</sup> St. This project could be combined with Sidewalk Project #3.	Safe Routes to School, Parks and Recreation Bond	\$130,000	2020

\*Project would only be constructed if substantially funded by grants .



**Project # and Name****28. 145th Street, Aurora Ave N to 3rd Ave NW****Scope / Narrative**

The 145th Street Corridor Study identified future improvements to 145th Street between Aurora Avenue and 3rd Avenue. These improvements modify the roadway to a 3-lane section with on-street bike lanes where space allows.

**Funding**

FUNDING SOURCE	PARTIALLY FUNDED					UNFUNDED	2018-2023 Total
	2018 Estimate	2019 Estimate	2020 Estimate	2021 Estimate	2022 Estimate	2023 Estimate	
Unknown	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 9,700,000	\$ 9,700,000

**Funding Outlook**

No funding has been identified for this project at this time. Design and construction of this segment of roadway is anticipated to begin in 2023 after completion of Project No. 6 (145th Street (SR 523) Corridor Improvements, Aurora Ave N to I-5) and Project No. 7 (SR 523 (N/NE 145th Street) & I-5 Interchange Improvements).

**Project Status**

This project is scheduled to be completed after the 145th interchange and segment from I-5 to Aurora.

**Purpose / Goals Achieved**

- |                                                                      |                                                           |
|----------------------------------------------------------------------|-----------------------------------------------------------|
| <input checked="" type="checkbox"/> Non-motorized                    | <input type="checkbox"/> Major Structures                 |
| <input type="checkbox"/> System Preservation                         | <input type="checkbox"/> Interjurisdictional Coordination |
| <input checked="" type="checkbox"/> Improves Efficiency & Operations | <input type="checkbox"/> Growth Management                |
| <input type="checkbox"/> Safety                                      | <input type="checkbox"/> Corridor Study                   |