

# IX. TRANSPORTATION

## C. TRANSPORTATION GOALS AND POLICIES

**Goal T-1:** Establish a transportation system that supports Kirkland's land use plan.

**Goal T-2:** Develop a system of pedestrian and bicycle routes that forms an interconnected network between local and regional destinations.

**Goal T-3:** Work to establish and promote a transit and ridesharing system that provides viable alternatives to the single-occupant vehicle.

**Goal T-4:** Establish and maintain a roadway network which will efficiently and safely provide for vehicular circulation.

**Goal T-5:** Establish level of service standards that encourage development of a multimodal transportation system.

**Goal T-6:** Design transportation facilities that reflect neighborhood character.

**Goal T-7:** Balance overall public capital expenditures and revenues for transportation.

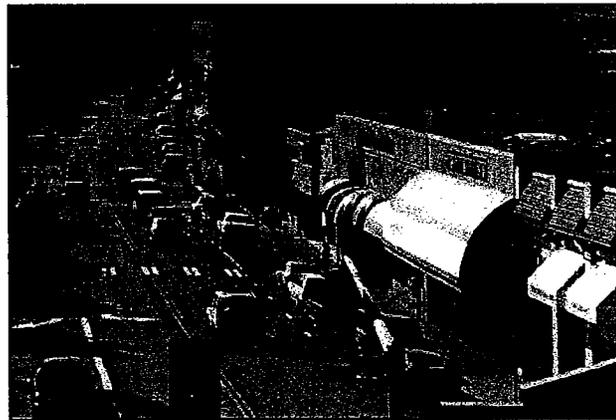
**Goal T-8:** Actively work to identify, review, and resolve interjurisdictional transportation concerns affecting Kirkland.

### LINKING TRANSPORTATION AND LAND USE

Streets serve to both connect and separate neighborhoods and activity centers in Kirkland. Through this system of links and barriers, the street system exerts a powerful influence on land use patterns in the City. Although much of the City of Kirkland's street network is already developed, future development will bring changes. Integrating land use and transportation requires ensuring that the transportation facilities which are built serve existing and future commercial, industrial, and residential land uses, and support the land use goals of the City.

**Goal T-1:** *Establish a transportation system that supports Kirkland's land use plan.*

**Policy T-1.1:** *Establish a transportation system that provides access by a variety of modes of travel to neighborhoods, the Downtown, Totem Lake, other commercial and industrial areas, and major institutions.*



*Downtown Kirkland*

As the Vision Statement and Framework Goal 9 describes, a high priority for Kirkland residents is providing convenient access to all areas of Kirkland. This access can be provided by transit, cars, bicycles, or walking. It also must accommodate freight traffic to serve our commercial and industrial areas. The intent of this policy is to stress that Kirkland residents need to be able to access places not only by car, but also by other means with safe and reliable connections.

**Policy T-1.2:** *Mitigate adverse impacts of transportation systems and facilities on neighborhoods.*

Transportation systems and facilities can have adverse impacts on neighborhoods such as:

- ◆ Safety problems due to speeding vehicles and increasing traffic volumes;
- ◆ Increased traffic resulting from drivers seeking alternate routes to congested arterials; and/or
- ◆ Air and noise pollution.

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A combination of the following techniques should be used to avoid these impacts or mitigate them when avoidance is not possible:

- ◆ Developing and implementing neighborhood-appropriate street design standards which are appropriate for the neighborhood;
- ◆ Creating an interconnected system of streets to distribute the traffic load and lessen the burden on any given street;
- ◆ Avoiding connections through residential neighborhoods when they will create new routes for commercial/industrial traffic or by-pass routes for I-405; and/or
- ◆ Continuing use of the Neighborhood Traffic Control Program to address safety, speed, and/or volume issues.

***Policy T-1.3: Establish a street system that promotes and maintains the integrity of neighborhoods.***

The street system is more than a circulation route; it is a major land use that exerts a strong influence on neighborhood integrity. Too often, this influence is seen as disruptive and intrusive. The street system can, however, be a strong positive force in promoting neighborhood integrity. As an example, streets can:

- ◆ Allow for local and internal circulation;
- ◆ Contribute to a sense of safety and security;
- ◆ Have urban greenery and take advantage of opportunities for scenic views;
- ◆ Provide recreational opportunities for bicyclists and pedestrians; and
- ◆ Be a place for special events and street block parties.

To promote neighborhood integrity, streets should be classified, designed, and developed in a manner that recognizes and respects the surrounding neighborhood.

***Policy T-1.4: Ensure that there is sufficient right-of-way.***

Dedication of land may be required to construct, install or extend the transportation system, such as streets, sidewalks, or bicycle lanes. Dedication may be for, among other purposes, alternative ingress and egress routes, emergency vehicle and police access, safe turning movements, through road connectivity and any other improvement needed to ensure an adequate, safe and efficient transportation system. In addition, dedication may be necessary to comply with the City's adopted street standards and/or to maintain the City's adopted level of service standards for road concurrency.

The City may also relinquish its interest in streets through a street vacation. Once a vacation is approved by the City Council, the property ownership usually reverts back to the abutting property owners. When considering street vacations, the City needs to carefully evaluate the long-term impact of the vacation on the entire transportation system, including pedestrian connections, public views and open space.

## ***INCREASING TRAVEL OPTIONS***

Kirkland's vision for transportation promotes the movement of people throughout the City and region by expanding opportunities to use transit, ridesharing, and nonmotorized facilities. Increased use of alternatives to the single-occupant vehicle can break the cycle of demand for wider streets while maintaining a high level of accessibility to all areas of the City. Alternate modes of travel reduce energy consumption, air pollution, and noise levels. By encouraging high-occupancy vehicles and other modes of travel, the City may be able to save the capital expense of road construction and maintenance and enhance the environment. For these reasons, the City should pursue all possible alternatives to the single-occupant vehicle.

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**Goal T-2:** *Develop a system of pedestrian and bicycle routes that forms an interconnected network between local and regional destinations.*

**Policy T-2.1:** *Promote pedestrian and bicycle networks that safely access commercial areas, schools, transit routes, parks, and other destinations within Kirkland and connect to adjacent communities, regional destinations, and routes.*



*Crosswalk in Downtown*

Safety and convenient access are important considerations when prioritizing nonmotorized projects. Currently, there are places in Kirkland that are unsafe or difficult to access by foot or bicycle. Similarly, there are incomplete regional connections in our existing nonmotorized system.

**Policy T-2.2:** *Promote a comprehensive and interconnected network of pedestrian and bike routes within neighborhoods.*

Cul-de-sacs and dead-end roads are a common cause of incomplete pedestrian and bicycle networks. Direct and convenient nonmotorized connections on foot or by bicycle between cul-de-sac bulbs to nearby destinations should be a priority when planning the nonmotorized system.

Beyond these connections, however, the City must work to create an overall nonmotorized system that gives people a convenient option to driving.

**Policy T-2.3:** *Increase the safety of the nonmotorized transportation system by removing hazards and obstructions and through proper design, construction, and maintenance.*

Safety considerations should be paramount when planning pedestrian and bicycle routes.

**Policy T-2.4:** *Design streets with features that encourage walking and bicycling.*

To promote the nonmotorized system and alternative modes to the single-occupant vehicle, streets should include pedestrian and bicycle facilities.

**Policy T-2.5:** *Maintain a detailed Nonmotorized Transportation Plan (NMTP).*

The NMTP is a functional plan that provides a detailed examination of the existing pedestrian, bicycle, and equestrian systems, criteria for prioritizing improvement, and suggested improvements. The NMTP designates specific City rights-of-way and corridors for improved pedestrian, bicycle and equestrian circulation, and sets design standards for nonmotorized facilities.

The Transportation Element lays the fundamental policy basis for the NMTP.

The current NMTP is consistent with the general policy direction of the Transportation Element. The NMTP will need to be updated regularly to incorporate new and revised standards for facilities and to reprioritize routes to be built.

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**Goal T-3:** *Work to establish and promote a transit and ridesharing system that provides viable alternatives to the single-occupant vehicle.*

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**Policy T-3.1:** *Design transit facilities (stations, centers, park and rides, shelters, etc.) that are easily accessible from other modes of transportation, accommodating those with disabilities, and appealing to pedestrians, and that may contain residential, office, institutional and/or commercial uses where appropriate.*

The location of transit facilities within the overall transportation system should be carefully considered so that they will be easily accessible by all modes.

Part of reducing reliance on the single-occupant vehicle is getting people to use transit rather than drive. Residential, office and/or commercial developments near transit facilities are helpful in achieving this reduction. When designing transit facilities, bicycle racks, ample sidewalks, and nonmotorized connections to neighborhoods should be considered.

For those that drive, parking or drop-off facilities are important considerations. Ridesharing to transit facilities should be encouraged.

The Americans with Disabilities Act requires convenient access for those with disabilities to new and remodeled facilities. Facility planning should also take into account the access needs of all ages of children, teens, adults, and seniors.

Appealing facilities that are well lit, comfortable, and clean will encourage greater use.

**Policy T-3.2:** *Support the development of regional high-capacity transit serving Kirkland.*

Kirkland should support regional transit planning and implementation because transit is provided by regional agencies and most transit trips are to destinations outside of Kirkland. Kirkland can support regional transit planning by actively participating in regional transit discussions, providing land use patterns which will ultimately support a system, and

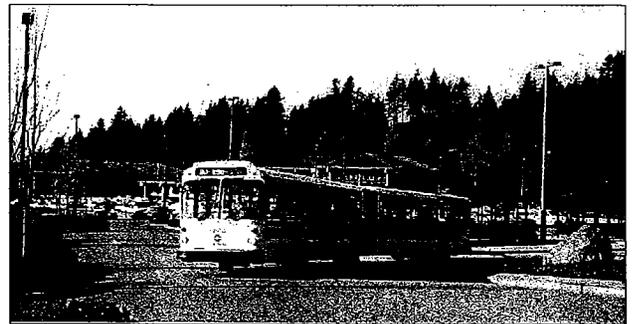
adopting goals and policies which make our position known and are consistent with the needs of a successful regional system.

**Policy T-3.3:** *Locate the routes and stations of the future regional high-capacity transit system to support Kirkland's transportation and land use plans.*

Kirkland should provide input to the appropriate regional bodies to ensure that the locations of high-capacity transit routes and stations are consistent with our land use and transportation plans.

The Land Use Element and the Totem Lake Neighborhood Plan support creation of a transit center in Totem Lake and a compact commercial district in the northeast quadrant of the interchange with I-405 and NE 124th Street in part because it has good potential for transit service. These policies, and others, should provide the basis for transportation decisions.

**Policy T-3.4:** *Work cooperatively with Metro, Washington State Department of Transportation and Sound Transit to provide regional and local transit service with linkages between Kirkland neighborhoods, business districts, and other important local and regional destinations.*



*Park and Ride at NE 70th Place*

Transit service which concentrates on connections within Kirkland and to other Eastside destinations, while maintaining convenient commuter service across the lake, are high priorities. To achieve this, Kirkland should work with the transit providers in making our views known.

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## *MAINTAINING MOBILITY*

The Comprehensive Plan promotes a new balance among the various modes of travel through an expansion of transit, ridesharing, walking, and bicycling opportunities on or adjacent to the existing vehicular system.

The plan supports the maintenance and enhancement of vehicular capacity on the existing system and recognizes the continued importance of vehicular circulation to local mobility, but not at the expense of other modes of travel or community character. This strategy is likely to result in higher levels of roadway congestion in specific areas, but provides more travel options for those who choose to use alternative modes of travel.

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***Goal T-4: Establish and maintain a roadway network which will efficiently and safely provide for vehicular circulation.***

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***Policy T-4.1: Promote efficient use of existing rights-of-way through measures such as:***

- *Intersection improvements;*
- *Time-of-day parking restrictions along congested arterials;*
- *Signal timing optimization;*
- *Added center left-turn lanes; and*
- *Limiting left turns along congested arterials.*

The existing vehicular circulation system in Kirkland is largely complete, and improvements to this system should focus on maximizing the use of existing vehicle lane capacity, rather than physically adding new lane capacity. Road widening solely for general purpose use is generally not preferred.

This policy supports the use of transportation system management strategies to maximize the use of existing rights-of-way. These are relatively low-cost ex-

penditures – for intersection or signal improvements, for example – which increase the efficiency of the system.

***Policy T-4.2: Consider improvements such as queue bypasses, time-of-day parking restrictions, transit signal priority and arterial transit lanes for transit or carpool use that will increase the people-carrying capacity of roadways.***

When faced with a limited transportation system and financial resources, it becomes critical to make the best of what we have. One way the City can increase the people-carrying capacity of existing roadways and encourage alternative modes of transportation is by improving mobility for transit or carpools.

In Kirkland and most other cities, transit currently sits in traffic with other vehicles. The benefit of riding transit, consequently, is diminished considerably. Lanes on arterial streets dedicated to transit or carpools are not commonly found as yet. Before Kirkland can build arterial transit lanes or queue bypasses, study is needed to ensure that it is physically possible and will be safe. Another important consideration is the impact of these facilities on community character. Transit mobility will serve Kirkland residents, but the City will have to balance the desire for transit mobility with negative impacts when making the decision whether or not to proceed.

***Policy T-4.3: Maintain a system of arterials, collectors, and local access streets that forms an interconnected network for vehicular circulation.***

Traffic spread over a “grid” of streets, which is designed appropriate to neighborhood and system needs, flows smoothly. Kirkland has a number of existing cul-de-sacs, which help to create quiet and private residential areas. At the same time, however, cul-de-sacs and dead ends result in uneven traffic distribution and benefit some at the expense of others. Valuable emergency response time can also be lost when connections between arterials are missing. Pedestrian and bicycle traffic is also interrupted. Future street connections should be considered when the City reviews its Citywide road network system.

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In addition, future street connections should be studied and determined with each neighborhood plan update. The neighborhood plan study should include looking at efficient and convenient road connections to schools, parks and other public facilities, and commercial centers. Adding bicycle, pedestrian and other nonmotorized connections should also be considered.

***Policy T-4.4: Minimize bypass traffic and safety impacts on neighborhood streets.***

Cut-through traffic onto neighborhood streets from nearby congested arterials or collectors does occur. The intent of this policy is to minimize the amount of cut-through traffic and the impacts of this traffic when it does occur by the use of various forms of traffic-calming techniques.

***Policy T-4.5: Maintain and improve convenient access for emergency vehicles.***

Emergency vehicles need to access sites using the shortest route possible. Providing an interconnected street network is the best way to achieve direct access.

One major barrier to direct access in Kirkland is I-405. Consideration should be given to providing for emergency vehicle access when new nonmotorized crossings of I-405 are planned.

***Policy T-4.6: Ensure adequate access to commercial and industrial sites.***

The transportation needs of commercial and industrial uses are important to Kirkland's future. For our economy to prosper, freight, employees, and customers must be able to move to and from businesses. This further supports the need to minimize congestion in the community.

***Policy T-4.7: Maintain the road system in a safe and usable form for all modes of travel where possible.***

A significant portion of the public's investment in City infrastructure resides in the pavement of City streets. The City must protect this investment through regular road maintenance. The Public Works Department

has operated a Pavement Management Program since 1990. The pavement condition of each road has been inventoried to allow for the strategic investment of maintenance funds. Besides pavement maintenance, Public Works has a regular program for pavement marking, storm drain cleaning, street sweeping, sign maintenance, and similar street maintenance.

With current funding levels and repair strategies, the overall condition of City streets is stable. If the level of funding does not stay constant or increase, the overall condition could fall off at a rate from which it would be impossible to recover without a very large investment. A higher level of funding would cause the overall condition to improve.

***Policy T-4.8: Provide for local vehicular access to arterials, while minimizing conflicts with through traffic.***

One problem along some arterials is the high number of driveways or places where vehicles can enter or leave traffic lanes. An excessive number of driveways is a safety concern for pedestrians on sidewalks. Also, traffic flow is unexpectedly interrupted when vehicles turn between intersections. However, properly located and spaced driveways can benefit traffic flow.

The intent of this policy is to permit the minimum number of curb cuts needed to adequately serve abutting uses. The end result will be minimizing conflicts with pedestrian and vehicular traffic.

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***Goal T-5: Establish level of service standards that encourage development of a multimodal transportation system.***

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***Policy T-5.1: Develop an approach for measuring level of service based on the standards described below in Policies T-5.2, T-5.3 and T-5.5.***

Developing level of service standards for a transportation system is a difficult task. After much study and discussion, the City decided that an intersection capacity technique was the best choice for Kirkland.

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Mode split (the percentage of single-occupant vehicle use and transit or other mode use) is used as the level of service standard for transit (Policy T-5.2). For vehicular level of service, the City has developed an aggregated roadway level of service measure that averages the capacity of signalized intersections within a geographic area (Policy T-5.3). Nonmotorized level of service is expressed in terms of miles of completed bicycle and pedestrian facilities and number of complete corridors and reflects the desire to create an interconnected system of bicycle and pedestrian routes (Policy T-5.5).

**Policy T-5.2:** *By the year 2022, strive to achieve a mode split of 65 percent single-occupant vehicle (SOV) and 35 percent transit/other mode.*

The mode splits described in this policy are the level of service standard for transit. They represent a long-term goal for the City to achieve through providing improved transit accessibility, transportation demand management programs, efficient nonmotorized systems, locating shops and services close to home, and other strategies to get people out of single-occupant

vehicles. The standard is expressed in terms of a desired percentage of peak-hour trips by single-occupant vehicles and transit/other mode.

**Policy T-5.3:** *Utilize the peak-hour vehicular level of service standards shown in Table T-2 – a two-part standard for the transportation subareas and for individual system intersections.*

This policy establishes a peak-hour level of service (LOS) standard for vehicular traffic based on 2022 land use and road network. It is a two-part standard, based on the ratio of traffic volume to intersection capacity (V/C) for signalized system intersections. Volume to capacity ratios were determined using the planning method from *Transportation Research Circular 212*.

The two standards are as follows:

- (1) Maximum allowed subarea average V/C for signalized system intersections in each subarea may not exceed the values listed in Table T-2.
- (2) No signalized system intersection may have a V/C greater than 1.40.

**Table T-2**

**Maximum Allowed Subarea Average V/C Ratio for System Intersections and Individual Intersection LOS**

<i>Use as Maximum Allowed Average V/C after January 1st</i> →	2004	2005	2006	2007	2008
Forecast for Year →	2009	2010	2011	2012	2013
Subarea	Average V/C Ratio				
Southwest	0.89	0.89	0.89	0.90	0.90
Northwest	0.88	0.89	0.89	0.90	0.91
Northeast	0.86	0.87	0.87	0.88	0.89
East	1.04	1.04	1.04	1.05	1.05
Maximum allowed individual system intersection V/C ratio	1.40	1.40	1.40	1.40	1.40

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The LOS standards were calculated through the use of a computerized transportation model shared with Bellevue and Redmond, called the BKR model. The standards are the outcome of land use and transportation network choices which were entered into the model.

In particular, a network of capacity projects was chosen that could be funded by levels of spending that are consistent with the amount spent on transportation capacity projects in recent years. The network also consists of projects that are in keeping with the community values found elsewhere in this Comprehensive Plan. It is the intention of this plan that intersection performance will be kept as high as possible, preferably with V/C ratios under 1.30. However, forecasts show that this may not be attainable so the maximum intersection V/C ratio is set at 1.40.

Table T-2 is designed to provide standards for the maximum allowed subarea average V/C ratio for the next few years. To pass the road concurrency test, new development may not exceed the maximum allowable subarea average V/C ratio for system intersections (see Table T-3 below) six years into the future starting from the date of making a concurrency application. The first row of Table T-2 (italicized) indicates the year that a proposed development is submitted for a road concurrency test. The second row indicates the six-year horizon that a new development's traffic impacts are assessed. Each set of standards in the column below the application year and the horizon year is based on a LOS forecast for six years in the future. Forecasts are derived by linear interpolation between forecasts for 2004 and 2022 and include forecasted impacts of development that have been approved but not yet built.

Example of how to use Table T-2: A development is seeking concurrency approval during 2005. What is the set of standards for subarea average V/C that the development must not exceed? Since the project is seeking approval in 2005, the second column of numbers is used. This set of standards (Southwest subarea standard of 0.89, Northwest subarea standard of 0.89, etc.) corresponds to a forecast horizon year of 2010. The development's traffic impacts may not cause the level of service at the signalized system intersections to exceed these standards.

In addition, the LOS methodology requires both standards (subarea average V/C and V/C not to exceed 1.40) to be satisfied. Traffic from a new development may not cause the average V/C of system signalized intersections in a subarea to operate at an LOS lower than the average and may not cause any system signalized intersection to exceed a V/C ratio of 1.40 as shown in Table T-2.

The capacity (C) of a signalized intersection is determined by a wide variety of factors, including signal phasing, number of lanes and traffic mix. It is a measure of the maximum number of vehicles that can go through the intersection in a set period of time. The volume (V) is the sum of "critical" volumes that indicate maximum demand at the intersection. The volume to capacity ratio (V/C) is the volume divided by the capacity. For the purpose of the plan, V/C is calculated for the PM peak hour.

A V/C of less than 1.0 means that the volume at the intersection is less than the capacity. If the V/C is equal to 1.0, the intersection's volume and capacity are equal. When the V/C is greater than 1.0, volume has exceeded capacity. As the V/C increases, the congestion at the intersection increases and the level of service gets worse.

Underlying the standards is the concept that the system is not considered failing if the peak-hour is congested. Use of the peak-hour for measuring level of service is standard in the region. This "worst case" measure implies that traffic will flow better during the rest of the day. Although very high, the V/C ratios in the standard are acceptable because there is a limited amount of funding available to improve the situation, and it is not possible to build our way out of congestion even if funds were unlimited. Road widening has quality-of-life impacts that many in the community find unacceptable.

The standards are based on congestion becoming worse in the future. This reflects the proposed network and funding, and an increase in trips. The need to move to alternative modes becomes all the more clear when we can see the peak-hour vehicular level of service forecasted for the future.

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Table T-3 describes subarea average V/C ratios for 2003 traffic counts and for forecast 2004 and 2022 volumes. These numbers are provided for reference.

**Table T-3  
2003 and Forecasted Subarea Average LOS for System Intersection**

Subarea Average V/C Ratio			
Subarea	2003 Traffic Count	2004 Traffic Plus Projects Approved but Not Yet Built	2022
Southwest	0.77	0.89	0.92
Northwest	0.83	0.88	1.05
Northeast	0.76	0.86	0.99
East	0.94	1.04	1.08

Table T-4 below lists intersections that are not system intersections and are therefore not considered in the calculations.

**Table T-4  
Signalized Intersections Not System Intersections**

The following signalized intersections are not system intersections. All other signalized intersections installed prior to August 2001 are system intersections.
6th Street/4th Avenue
3rd Street/Kirkland Avenue
6th Street/Kirkland Way
98th Avenue NE/NE 120th Place
93rd Avenue NE/Juanita Drive
97th Avenue NE/Juanita Drive
NE 124th Street/120th Place NE
NE 118th Street/120th Avenue NE
NE 128th Street/116th Way NE
120th Avenue NE/NE 80th Street
NE 132nd Street/108th Avenue NE
NE 132nd Street/Juanita High School
NE 132nd Street/Juanita Elementary School
120th Avenue Pedestrian Signal at Totem Lake Mall

Figure T-5 below shows the City's four subareas used for the maximum allowed subarea average V/C ratio standard in Table T-2 for signalized system intersections.

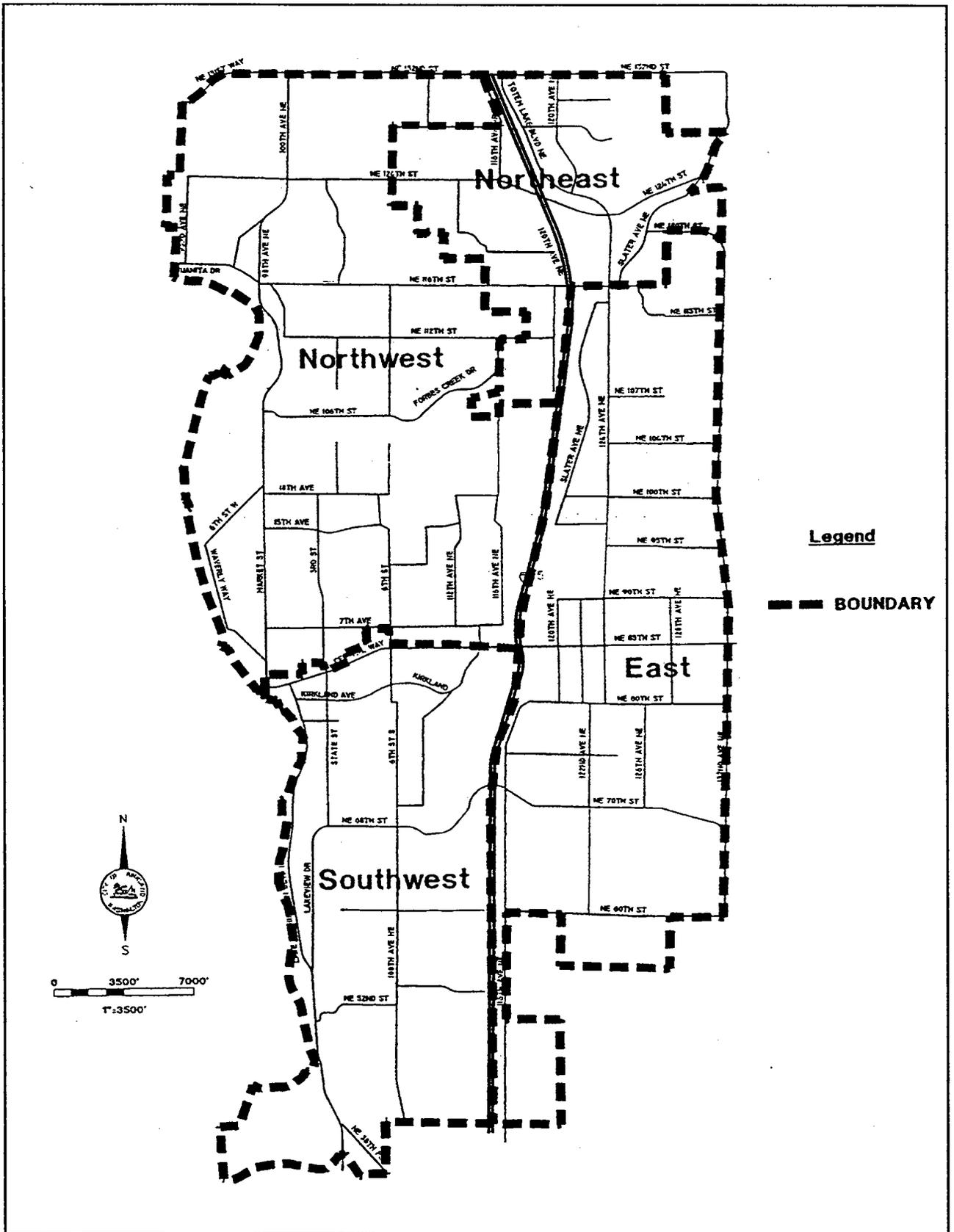


Figure T-5: Transportation Subareas

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***Policy T-5.4: Require new development to mitigate site-specific transportation impacts.***

The standards in T-5.3 relate to maintaining the long-term performance of the road network system throughout Kirkland. Besides meeting those standards, new development should mitigate its site-specific impacts to the transportation system. For individual development, the nature and timing of the mitigation should be based on the magnitude and proportionate share of the impacts and the timing of development. Mitigation may be necessary for impacts to intersections and local roadways, including pedestrian, bicycle and transit facilities. In addition, mitigation may be needed for site access to and from the local roadway system. The City will provide traffic impact guidelines to establish the basis for evaluating what needs to be mitigated and the timing and extent of the mitigation.

***Policy T-5.5: Strive to achieve a level of service standard by 2022 of 59 miles of bicycle facilities and 155 miles of pedestrian facilities, six east-west and four north-south completed pedestrian corridors, and four east-west and two north-south completed bicycle corridors as identified in the Nonmotorized Transportation Plan.***

The LOS standard for the nonmotorized system reflects the desire to create an interconnected system of pedestrian and bicycle routes. The standards for bicycle and pedestrian facilities are based on the priority routes indicated in the Nonmotorized Transportation Plan (NMTP) and the City's Transportation Program Evaluation Criteria. The City considers the following factors when determining the location of new bicycle and pedestrian facilities: completion of the interconnected system established in the NMTP, safe school routes and connections to public facilities, commercial centers and regional pedestrian and bicycle routes. The existing system has deficiencies and gaps that the proposed standards strive to complete.

Figures T-2 and T-3 show the proposed bicycle and pedestrian corridor facilities to meet Policy T-5.5.

***Policy T-5.6: Promote transportation demand management (TDM) strategies to help achieve mode split goals. TDM may include incentives, programs, or regulations to reduce the number of single-occupant vehicle trips.***

Transportation demand management seeks to modify travel behavior and encourage economical alternatives to the single-occupant vehicle. Transportation demand management strategies try to influence behavior in a way that keeps expansion of the transportation system at a minimum. The more successful TDM strategies are, the more successful the City will be at achieving the mode split goals described in Policy T-5.2.

The following are some TDM strategies: (1) working cooperatively with employers to implement programs that encourage employees not to drive alone; (2) requiring certain new developments to implement programs to reduce single-occupant vehicle use; (3) adjusting parking standards to meet existing demand and reducing them further when transportation options increase; and (4) supporting paid parking or other parking policy measures.

***Policy T-5.7: Assure that transportation improvements are concurrent with development to maintain the vehicular level of service standard for the development's subarea.***

The Growth Management Act requires that transportation improvements and programs needed to accommodate planned growth be provided concurrently as new development occurs. Concurrency requires the balancing of three primary factors: available financial resources, acceptable transportation system performance conditions (level of service), and the community's long-range vision for land use and transportation.