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## Chapter 6: Bicycle Element

Last Revised 4/03/13

**Table 6-2 Bicycle Master Plan Projects**

Map ID <sup>1</sup>	Priority	Type	Project Name	Project Description	From	To	Cost(s) \$1,000s <sup>2</sup>
<b>High Priority Needs</b>							
G	High	C	Hwy 224 Crossing Improvements at Oak and Washington <del>Streets</del>	Improve intersection crossing safety for cyclists at Washington <del>Street</del> and Oak <del>Street</del> .	Location specific	Location specific	\$10
N	High	C	Railroad Avenue Bike Lanes <del>Facilities</del>	Fill in gaps in existing bicycle network with bike lanes, <u>cycle track, multiuse path, or other facilities</u> (cost included with Railroad Avenue road widening project).	37 <sup>th</sup> Ave	Linwood Ave	N/A
U	High	C	29 <sup>th</sup> /Harvey/40 <sup>th</sup> Bicycle Boulevard <del>Neighborhood Greenway</del>	Designate as a <u>Bicycle Boulevard Neighborhood Greenway</u> and install <u>bicycle bike boulevard</u> improvements.	Springwater Trail	Monroe St	\$200
U	High	C	Monroe Bicycle Boulevard <del>Neighborhood Greenway</del>	Designate as a <u>Bicycle Boulevard Neighborhood Greenway</u> and install <u>bicycle bike boulevard</u> improvements.	21 <sup>st</sup> Ave	Linwood Ave	\$300
Z	High	C	17 <sup>th</sup> Avenue Bikeway and Intersection Safety Improvements	Fill in gaps in existing bicycle network with bike lanes or multiuse path. Improve intersection safety and eastbound connection at 17 <sup>th</sup> Ave/Hwy 99E. Improve intersection safety at 17 <sup>th</sup> Ave/Hwy 224.	Waverly Dr	Harrison St	\$135
AB	High	C	Springwater Trail Completion	Contribute to regional project to complete Springwater Trail ("Sellwood Gap") along Ochoco <del>Street</del> .	17 <sup>th</sup> Ave	19 <sup>th</sup> Ave	\$80
<u>N/A</u>	<u>High</u>	<u>C</u>	<u>Kellogg Creek Bike-Ped Bridge</u>	<u>Construct bike-ped overpass over Kellogg Creek in conjunction with light rail bridge.</u>	<u>Site specific</u>	<u>Site specific</u>	<u>\$2,500</u>
<u>N/A</u>	<u>High</u>	<u>C</u>	<u>Kellogg Creek Dam Removal and Hwy 99E Underpass</u>	<u>Replace 99E bridge over Kellogg Creek, remove dam, restore habitat; construct bike-ped undercrossing between downtown Milwaukie and Riverfront Park.</u>	<u>Site specific</u>	<u>Site specific</u>	<u>\$9,000</u>
<u>NA</u>	<u>High</u>	<u>C</u>	<u>Bike Route Signage</u>	<u>Install neighborhood bike route signage.</u>	<u>Citywide</u>	<u>Citywide</u>	<u>\$150</u>
<u>N/A</u>	<u>High</u>	<u>O</u>	<u>Bike Lane Maintenance</u>	<u>Sweep bike lanes to remove debris.</u>	<u>Citywide</u>	<u>Citywide</u>	<u>\$1100</u>
<u>N/A</u>	<u>High</u>	<u>C</u>	<u>Kronberg Park Trail</u>	<u>Construct multi-use path to connect bike-ped bridge to safe crossing of Hwy 99E</u>	<u>Kellogg Creek Bridge</u>	<u>River Rd at Hwy 99E</u>	<u>???</u>

<sup>1</sup> See Figure 6-2

<sup>2</sup> Project costs are in 2007 dollars. Future costs may be more due to inflation. Costing details can be found in the Technical Appendix. In the case of operational projects, estimated costs are for the entire 22-year planning period.

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Map ID <sup>1</sup>	Priority	Type	Project Name	Project Description	From	To	Cost(s) \$1,000s <sup>2</sup>
<b>Medium Priority Needs</b>							
I	Med	C	Harrison Street Bike Lanes	Fill in gaps in existing bicycle network with bike lanes (cost included with Harrison Street road widening project).	Hwy 99E	21 <sup>st</sup> Ave	NA
S	Med	C	Main Street Bike Lanes	Fill in gaps in existing bicycle network with bike lanes.	Harrison St	Moore St	\$2,131
U	Med	C	Stanley Avenue <u>Bicycle Boulevard Neighborhood Greenway</u>	Designate as a <u>Bicycle Boulevard Neighborhood Greenway</u> and install <u>bicycle</u> boulevard improvements.	Springwater Trail	Railroad Ave	\$300
U	Med	C	19 <sup>th</sup> and Sparrow <u>Bicycle Boulevard Neighborhood Greenway</u>	Designate as a <u>Bicycle Boulevard Neighborhood Greenway</u> and install <u>bicycle</u> boulevard improvements. This would connect the south end of Kellogg Creek Trail to River Rd.	Eagle St	River Rd	\$737
<del>W</del>	Med	<del>C</del>	<del>Springwater Trail Paving Project</del>	<del>Improve corridor through repaving existing trail.</del>	<del>29<sup>th</sup> Ave</del>	<del>Linwood Ave</del>	<del>\$500</del>
N/A	Med	O	Cyclist Education	Promote cycling through bike use and route selection education.	Citywide	Citywide	\$10
N/A	Med	O	Community Bicycle Rides	Coordinate community bike rides to encourage bike use.	Citywide	Citywide	\$5
<b>Low Priority Needs</b>							
A	<del>Low</del>	<del>C</del>	<del>Intersection Improvements at Adams Street and 21<sup>st</sup> Avenue</del>	<del>Improve safety of crossing at intersection.</del>	<del>Location specific</del>	<del>Location specific</del>	<del>\$10</del>
B	Low	C	Springwater Corridor Intersection Improvements at 45 <sup>th</sup> Avenue	Improve safety of crossing at intersection.	Location specific	Location specific	\$10
C	Low	C	Intersection Improvements at Johnson Creek Blvd and Linwood Avenue	Improve safety of crossing at intersection.	Location specific	Location specific	\$10
D	Low	C	Intersection Improvements at Linwood Avenue and King Road	Improve safety of crossing at intersection.	Location specific	Location specific	\$10

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E	Low	C	Intersection Improvements at Linwood Avenue and Monroe Street	Improve safety of crossing at intersection.	Location specific	Location specific	\$10
F	Low	C	Intersection Improvements at Linwood Avenue and Harmony Road	Improve safety of crossing at intersection.	Location specific	Location specific	\$10
H	Low	C	Intersection Improvements at International Way and Lake Road	Improve safety of crossing at intersection.	Location specific	Location specific	\$10
J	Low	C	Lake Road Bike Lanes	Fill in gaps in existing bicycle network with bike lanes (cost included with Lake Road road widening project).	Main St	Guilford Dr	NA
K	Low	C	Oatfield Road Bike Lanes	Fill in gaps in existing bicycle network with bike lanes.	Guilford Ct	Lake Rd	\$348
L	Low	C	Harrison Street Bike Lanes	Fill in gaps in existing bicycle network with bike lanes.	Hwy 224	42 <sup>nd</sup> Ave	\$13
M	Low	C	37 <sup>th</sup> Avenue Bike Lanes	Fill in gaps in existing bicycle network with bike lanes.	Harrison St	Hwy 224	\$2,900
O	Low	C	43 <sup>rd</sup> Avenue Bike Lanes	Fill in gaps in existing bicycle network with bike lanes.	King Rd	Filbert St	\$1,014
P	Low	C	Linwood Avenue Bike Lanes (north)	Fill in gaps in existing bicycle network with bike lanes.	Queen Rd	Johnson Creek Blvd	\$1,692
Q	Low	C	Linwood Avenue Bike Lanes (south)	Fill in gaps in existing bicycle network with bike lanes.	Juniper St	Harmony Rd	\$296
R	Low	C	Rusk Road Bike Lanes	Fill in gaps in existing bicycle network with bike lanes.	Lake Rd	North Clackamas Park	\$936
<del>T</del>	<del>Low</del>	<del>C</del>	<del>21<sup>st</sup> Avenue Bike Lanes</del>	<del>Fill in gaps in existing bicycle network with bike lanes.</del>	<del>Harrison St</del>	<del>Lake Rd</del>	<del>\$50</del>
V	Low	C	Bicycle and Pedestrian Overpass	Establish a dedicated bicycle and pedestrian connection across Railroad Avenue and the railroad tracks.	Railroad Ave	International Way	\$2,025
X	Low	C	Kellogg Creek Trail Improvements	Resurface trail and provide wayfinding signage to/from trail.	Milwaukie Riverfront	Treatment Plant	\$623
<del>Y</del>	<del>Low</del>	<del>C</del>	<del>Trolley Trail Signage</del>	<del>Design and install Trolley Trail signage.</del>	<del>Milwaukie Riverfront</del>	<del>Southern city limits</del>	<del>\$54</del>
AA	Low	C	Springwater Trail Ramp Improvement at McLoughlin Blvd	Improve ramp at Springwater Trail and McLoughlin Blvd.	Location specific	Location specific	\$15
N/A	Low	C	Kronberg Park Trail	Construct multimodal trail along Kellogg Creek connecting Kronberg Park to downtown Milwaukie.	McLoughlin Blvd	Downtown	\$1,200

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<u>N/A</u>	Low	O	Bicycle-friendly Street Grates	Install bicycle-friendly street grates.	Citywide	Citywide	\$50
<u>N/A</u>	Low	O	Milwaukie Bike Map	Produce a Milwaukie Bike Map.	Citywide	Citywide	\$50
<u>N/A</u>	Low	O	Police Enforcement on Drivers	Enforce laws related to bike lanes and bicycle safety.	Citywide	Citywide	\$10
<u>N/A</u>	Low	O	Bike Lane Striping	Re-stripe existing bike lanes and stripe bike lanes on streets where buses and bicyclists share the road.	Citywide	Citywide	\$20
<u>N/A</u>	Low	C	Springwater Trail Signage	Install wayfinding signage for Springwater Trail.	Citywide	Citywide	\$15
<u>N/A</u>	Low	O	North Clackamas Greenway Corridor Study	Study feasibility of corridor for multiuse path construction (possibly along Kellogg Creek).	Downtown	Clackamas Regional Center	\$50

**Notes:**

C = Capital Project      High = High priority  
 O = Operational Project      Med = Medium priority  
 P = Policy Project      Low = Low priority



# Transportation System Plan

## FIGURE 6-2

### BICYCLE MASTER PLAN

December 2007

#### LEGEND

Existing Bicycle Facilities	Proposed Improvements
Shared Facility	Bicycle Intersection Safety Improvement
Bicycle Lane	Bicycle Corridor Enhancement
Springwater Trail	Bike Boulevard
Kellogg Creek Trail	Bicycle Lanes
Schools	Trolley Trail
Major Roads	County Line
Streets	Parks
Railroad	Water
10' Contours	City Limits

#### PROPOSED PROJECTS

##### Improve Intersection to Increase Bicycle Safety

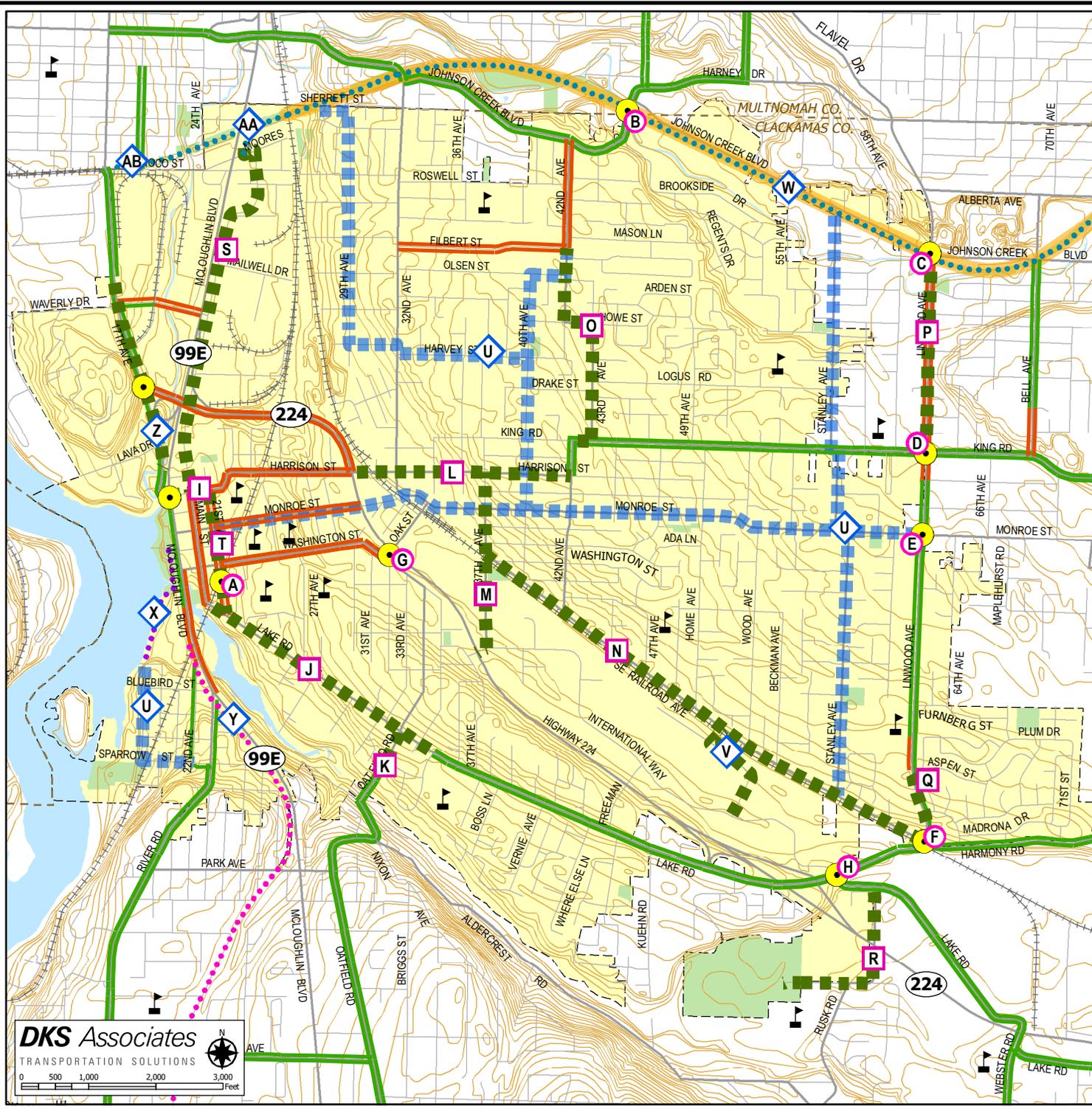
- A** Adams St/21st Ave/Railroad Crossing
- B** Johnson Creek Blvd/Springwater Trail
- C** Johnson Creek Blvd/Linwood Ave
- D** Linwood Ave/King Rd
- E** Linwood Ave/Monroe St
- F** Linwood Ave/Harmony Rd
- G** Washington St/Oak St/Hwy 224
- H** International Way/Lake Rd

##### Provide Bicycle Lanes Where not Currently Present

- I** Harrison St from Hwy 99E to 21st Ave
- J** Lake Rd from Main St to Guilford Dr
- K** Oatfield Rd from Guilford Ct to Lake Rd
- L** Harrison St from Hwy 224 to 42nd Ave
- M** 37th Ave from Harrison St to Hwy 224
- N** Railroad Ave from 37th Ave to Linwood Ave
- O** 43rd Ave from King Rd to Filbert St
- P** Linwood Ave from Queen Rd to Johnson Creek Blvd
- Q** Linwood Ave from approximately Juniper St to Harmony Rd
- R** Rusk Rd from Lake Rd to North Clackamas Park
- S** Main St from Harrison St to Moores St
- T** 21st Ave from Harrison St to Lake Rd

##### Enhance Existing Bicycle Connection

- U** Install Bike Boulevard treatments at various locations
- V** Construct bicycle overpass from Railroad Ave to International Way
- W** Improve Springwater Trail paving
- X** Improve Kellogg Creek Trail
- Y** Install Trolley Trail signage
- Z** Fill in gaps in existing bike network with bike lanes or multiuse path.
- AA** Improve intersection safety on 17th Ave at Hwy 224 and at 99E.
- AB** Improve ramp at Springwater Trail/Hwy 99E
- AB** Complete Springwater Trail along Ochoco St



**DKS Associates**  
TRANSPORTATION SOLUTIONS

0 500 1,000 2,000 3,000 Feet