Underline/Strikeout Amendments

Transportation System Plan (TSP)

Table 5-1 Pedestrian Master Plan Projects

Map ID¹	Priority	Туре	Project Name	Project Description ²	From	То	Cost (\$1,000s³)
High P	riority Proje	ects					
N/A	High	Ρ	Study of Pedestrian Crossings on Hwy 224	Examine alternatives for improving pedestrian crossings at five intersections along Hwy 224 (Harrison St, Monroe St, Oak St, 37 th Ave, Freeman Way)	Harrison St	Freeman Way	\$50
A	High	С	Intersection Improvements at Hwy 224 and Freeman Way	Improve pedestrian crossing.	Location-specific	Location-specific	\$20
В	High	С	Intersection Improvements at Hwy 224 and 37th Ave	Improve pedestrian crossing.	Location-specific	Location-specific	\$20
С	High	С	Intersection Improvements at Hwy 224 and Oak St	Improve pedestrian crossing.	Location-specific	Location-specific	\$20
D	High	С	Intersection Improvements at Hwy 224 and Monroe St	Improve pedestrian crossing.	Location-specific	Location-specific	\$20
E	High	С	Intersection Improvements at Hwy 224 and Harrison St	Improve pedestrian crossing.	Location-specific	Location-specific	\$20
L	High	С	17th Ave Improvements	Fill in sidewalk gaps on both sides of street; fill in gaps in existing bicycle network with bike lanes; and/or provide multiuse path. Improve intersection safety at Milport Rd, McBrod Ave, Hwy 224, Lava Dr, and Hwy 99E.	Ochoco St	McLoughlin Blvd	\$1,000

¹ See Figure 5-1.

² The projects in this table assume traditional sidewalks on both sides of the street. In some cases it may be appropriate to construct a nontraditional pedestrian facility on one side of the street. See Chapter 10 Street Design for more information on the City's approach to designing pedestrian facilities. ³ Project costs are order-of-magnitude estimates and are in 2012 dollars. Future costs may be more due to inflation. In the case of operational projects, estimated costs are for the entire 22-year planning period.

Map ID ¹	Priority	Туре	Project Name	Project Description ²	From	То	Cost (\$1,000s ³)
0	High	С	Railroad Ave Capacity Improvements	Pedestrian aspect: Fill in sidewalk gaps on both sides of street or construct multiuse path on one side.	37 th Ave	Harmony Rd	\$1,800
Ρ	High	С	Monroe St Neighborhood Greenway	Fill in sidewalk gaps on both sides of street.	42 nd Ave	City limit	\$1,800
U	High	С	43 rd Ave Sidewalks	Fill in sidewalk gaps on both sides of street.	Howe St/42 nd Ave	King Rd/43 rd Ave	\$600
V1	High	С	Stanley Ave Neighborhood Greenway (north)	Fill in sidewalk gaps on both sides of street.	Johnson Creek Blvd	King Rd	\$1,900
V2	High	С	Stanley Ave Neighborhood Greenway (south)	Fill in sidewalk gaps on both sides of street.	King Rd	Railroad Ave	\$2,800
W2	High	С	Linwood Ave Sidewalks (south)	Fill in sidewalk gaps on both sides of street (part of Linwood Ave road-widening project).	King Rd	Railroad Ave	\$2,150
Y	High	С	International Way Sidewalks	Fill in sidewalk gaps on both sides of street.	Criterion Ct	Lake Rd	\$840
Ζ	High	С	Harmony Rd Sidewalks	Fill in sidewalk gaps on both sides of street.	Linwood Ave	City limits	\$40
AL	High	С	River Rd Sidewalks	Fill in sidewalk gaps on both sides of street.	McLoughlin Blvd	City limits	\$690
AR	High	С	Kellogg Creek Dam Removal and Hwy 99E Underpass	Replace Hwy 99E bridge over Kellogg Creek, remove dam, restore habitat. Construct bike/ped undercrossing between downtown Milwaukie and Riverfront Park.	Location-specific	Location-specific	\$9,900
AU	High	С	Kellogg Creek Bike/Ped Bridge	Construct bike/ped overpass over Kellogg Creek in conjunction with light rail bridge.	Lake Rd	Kronberg Park	\$2,500
AV	High	С	Kronberg Park Trail	Construct multiuse path to connect bike/ped bridge to safe crossing of Hwy 99E.	Kellogg Creek Bridge	River Rd	\$300
AW	High	С	Intersection Improvements at McLoughlin Blvd and 22 nd Ave	Improve safety of Trolley Trail crossing at 22 nd Ave.	Location-specific	Location-specific	\$200
AX	High	С	Improved Connection to Springwater Trail at 29 th Ave and Sherrett St	Pave the connection to Springwater Trail at 29 th Ave and Sherrett St. (TSAP NMIA Plan)	Location-specific	Location-specific	\$20
AY	High	С	Improved Connection from Springwater Trail to Pendleton Site (Ramps)	Construct ramps to improve existing connection of Springwater Trail to Pendleton site at Clatsop St. (TSAP NMIA Plan)	Location-specific	Location-specific	\$630

Map ID ¹	Priority	Туре	Project Name	Project Description ²	From	То	Cost (\$1,000s³)
AY	High	С	Improved Connection from Springwater Trail to Pendleton Site (Widened Undercrossing)	Widen existing undercrossing to improve connection of Springwater Trail to Pendleton site at Clatsop St. (TSAP NMIA Plan)	Location-specific	Location-specific	\$100
AZ	High	С	Improved Connection from Springwater Trail to Tacoma Station	Construct stairs to connect Springwater Trail to Tacoma station. (TSAP NMIA Plan)	Location-specific	Location-specific	\$80
BL	High	С	Adams St Connector	Construct pedestrian- and bicycle-only facility on Adams St between 21 st Ave and Main St	21 st Ave	Main St	\$450
N/A	High	С	Intersection Curb Ramp Improvements	Install curb ramps at all intersections with sidewalks (approximately 700 intersections).	Citywide	Citywide	\$3,500
Mediun	n Priority P	Projects					
F	Med	С	King Rd Blvd Treatments	Install street boulevard treatments: widen sidewalks and improve multiple crossings.	43 rd Ave	Linwood Ave	\$550
М	Med	С	McLoughlin Blvd Sidewalks	Fill in sidewalk gaps on both sides of street.	Washington St	Southern city limits	\$650
Ν	Med	С	Lake Rd Sidewalks	Fill in sidewalk gaps on both sides of street.	Where Else Ln	Hwy 224	\$2,200
Q	Med	С	Logus Rd Sidewalks	Fill in sidewalk gaps on both sides of street.	43 rd Ave	49 th Ave	\$850
Т	Med	С	37th Ave Sidewalks	Fill in sidewalk gaps on both sides of street.	Lake Rd	Harrison St	\$870
AE	Med	С	Brookside Dr Sidewalks	Fill in sidewalk gaps on both sides of street.	Johnson Creek Blvd	Regents Dr	\$20
AT	Med	С	Springwater Trail Completion	Contribute to regional project to complete Springwater Trail ("Sellwood Gap") along Ochoco St.	17 th Ave	19 th Ave	\$90
BA	Med	С	Bicycle and Pedestrian Overpass over Railroad Ave	Establish a dedicated bicycle and pedestrian connection across Railroad Ave and the railroad tracks.	Railroad Ave	International Way	\$2,200
BB	Med	С	Bicycle/Pedestrian Improvements to Main St	Construct multiuse path or other improved bike/ped facilities on Main St to provide safer connection between downtown and Tacoma station. (TSAP NMIA Plan)	Hanna Harvester Dr	Tacoma station	\$2,900
BC	Med	С	Bicycle/Pedestrian Connection from Eastern Neighborhoods to Tacoma Station Area	Establish bike/ped connection over existing railroad tracks and light rail to Tacoma station area. (TSAP NMIA Plan)	Olsen St & Kelvin St	Mailwell Dr	\$4,000
BD	Med	С	Improved Connection from Springwater Trail to McLoughlin Blvd	Construct stairs or other facility to connect Springwater Trail to west side of McLoughlin Blvd. (TSAP NMIA Plan)	Location-specific	Location-specific	\$500

Map ID ¹	Priority	Туре	Project Name	Project Description ²	From	То	Cost (\$1,000s³)
BE	Med	С	Bicycle/Pedestrian Connection over Johnson Creek	Construct bike/ped bridge over Johnson Creek along Clatsop St at 23 rd Ave to connect Tacoma station area with adjacent neighborhood. (TSAP NMIA Plan)	Location-specific	Location-specific	\$400
BF	Med	С	Improved Bicycle/Pedestrian Connections on West Side of Tacoma Station Area	Improve bike/ped connections to adjacent neighborhood to west of Tacoma station area at Ochoco St and Milport Rd. (TSAP NMIA Plan)	Location-specific	Location-specific	\$500
N/A	Med	С	Downtown Streetscape Improvements	Install sidewalk bulbouts, lighting, and pedestrian amenities.	Downtown	Downtown	\$7,300 ⁴
N/A	Med	0	Pedestrian Walkway Amenities	Install amenities, such as benches, along key walking routes.	Citywide	Citywide	\$60
Low Pr	iority Proje	ects					
G	Low	С	Intersection Improvements at Olsen St and 42 nd Ave	Improve pedestrian crossing.	Location-specific	Location-specific	\$20
Н	Low	С	Intersection Improvements at Railroad and 37 th Ave	Improve pedestrian crossing.	Location-specific	Location-specific	\$10
К	Low	С	Intersection Improvements at Stanley Ave and Logus Rd	Improve pedestrian crossing.	Location-specific	Location-specific	\$20
R	Low	С	Olsen St Sidewalks	Fill in sidewalk gaps on north side of street.	32 nd Ave	42 nd Ave	\$470
S	Low	С	Johnson Creek Blvd Sidewalks	Fill in sidewalk gaps on both sides of street.	Harney St	City limits	\$410
W1	Low	С	Linwood Ave Sidewalks (north)	Fill in sidewalk gaps on both sides of street (part of Linwood Ave road-widening project).	Johnson Creek Blvd	King Rd	1,050
Х	Low	С	Hwy 224 Sidewalks	Fill in sidewalk gaps on both sides of street.	Oak St	37 th Ave	\$460
AA	Low	С	Home Ave Sidewalks	Fill in sidewalk gaps on both sides of street.	Railroad Ave	King Rd	\$830
AB	Low	С	Harvey St Sidewalks	Fill in sidewalk gaps on both sides of street.	32 nd Ave	42 nd Ave	\$590
AC	Low	С	Roswell St Sidewalks	Fill in sidewalk gaps on both sides of street.	32 nd Ave	36 th Ave	\$210
AD	Low	С	Mason Lane Sidewalks	Fill in sidewalk gaps on both sides of street.	42 nd Ave	Regents Dr	\$740

⁴ Estimated \$500,000 per block face.

Map ID ¹	Priority	Туре	Project Name	Project Description ²	From	То	Cost (\$1,000s³)
AF	Low	С	Regents Dr Sidewalks	Fill in sidewalk gaps on both sides of street.	Brookside Dr	Winsor Dr	\$540
AG	Low	С	Rusk Rd Sidewalks	Fill in sidewalk gaps on both sides of street.	Lake Rd	North Clackamas Park	\$730
AH	Low	С	Pedestrian Connection to North Clackamas Park	Create pedestrian connection between the school and the park.	Rowe Middle School	North Clackamas Park	\$1,400
AI	Low	С	Washington St Sidewalks	Fill in sidewalk gaps on both sides of street.	32 nd Ave	35 th Ave	\$130
AJ	Low	С	22 nd Ave Sidewalks	Fill in sidewalk gaps on both sides of street.	McLoughlin Blvd	Sparrow St	\$360
AK	Low	С	19th Ave Sidewalks	Fill in sidewalk gaps on both sides of street.	Kellogg Creek Trail	Sparrow St	\$330
AM	Low	С	Oatfield Rd Sidewalks	Fill in sidewalk gaps on both sides of street.	Guilford Ct	City limits	\$150
AN	Low	С	49th Ave Sidewalks	Fill in sidewalk gaps on both sides of street.	Logus Rd	King Rd	\$270
AO	Low	С	Franklin St Sidewalks	Install sidewalks on both sides of street to connect to Campbell Elementary School.	42 nd Ave	45 th Ave	\$220
AP	Low	С	Ochoco St Sidewalks	Construct sidewalks on Ochoco St to connect bus stops to Goodwill.	19 th Ave	McLoughlin Blvd	\$1,300
AQ	Low	С	Edison St Sidewalks	Fill in sidewalk gaps on both sides of street.	35 th Ave	37 th Ave	\$130
AY	Low	С	Improved Connection from Springwater Trail to Pendleton Site (Tunnel)	Construct tunnel under Springwater Trail to improve connection to Pendleton site at Clatsop St. (TSAP NMIA Plan)	Location-specific	Location-specific	\$1,200
BG	Low	С	Intersection Improvement at all Crossings of McLoughlin Blvd	Improve all existing crossings of McLoughlin Blvd (e.g., extended time for crossing, signage). (ODOT to do.)	Location-specific	Location-specific	_
BH	Low	С	Bike/Ped Path on Sparrow St	Establish a dedicated bicycle and pedestrian connection on Sparrow St, connecting River Rd to Trolley Trail	River Rd	Trolley Trail	\$350
BI	Low	С	Bike/Ped Overpass over McLoughlin Blvd at River Rd	Establish a dedicated bicycle and pedestrian connection across McLoughlin Blvd.	Kronberg Park	River Rd	\$2,500
BJ	Low	С	Crossing Improvements for McLoughlin Blvd at Ochoco St and Milport Rd	Construct improvements at Ochoco St and Milport Rd to improve bike/ped crossing of McLoughlin Blvd (per ODOT, this will require full intersection improvements). (TSAP NMIA Plan)	Location-specific	Location-specific	\$8,320
BK	Low	С	Bicycle/Pedestrian Connection between McLoughlin Blvd and Stubb St	Establish bike/ped connection to McLoughlin Blvd sidewalk at west end of Stubb St. (TSAP NMIA Plan)	Location-specific	Location-specific	\$20

Map ID ¹	Priority	Туре	Project Name	Project Description ²	From	То	Cost (\$1,000s³)
N/A	Low	0	Pedestrian Walkway Signage	Provide maps and wayfinding signage on streets that identify ways to get around the city.	Citywide	Citywide	\$10
Priority	to be Dete	ermined					
BM	-	С	Harrison/32 nd Ave Intersection	Open the currently closed pedestrian crosswalk on the west leg of the intersection	Location-specific	Location-specific	-
BN	-	С	Oak St/34 th Ave Connection	Provide pedestrian/bicycle connection between Monroe St and 34 th Ave (nearby residential neighborhood)	Location-specific	Location-specific	-
BO	-	С	Campbell St and Railroad Ave upgrades	Provide pedestrian/bicycle treatments on Campbell St and Railroad Ave between Monroe St and Harrison St	Location-specific	Location-specific	-
BP	-	С	Connection through Union Pacific Railroad property	Provide pedestrian/bicycle connection on Union Pacific Railroad land located in the triangle formed by the rail line, Railroad Ave and Monroe St	Location-specific	Location-specific	-
<u>CA</u>	=	<u>C</u>	<u>NMIA Bike-Ped</u> Connections – Ochoco	Provide pedestrian/bicycle connection along Ochoco St to Roswell St across the railroad tracks to improve connectivity and circulation to/from the NMIA.	Location-specific	Location-specific	-
<u>CB</u>	=	<u>C</u>	NMIA multi-use path extension	Extend the Main St multi-use path from Beta St to the Tacoma light rail station	Location-specific	Location-specific	=
<u>CC</u>	-	<u>C</u>	McBrod Ave green street	Develop McBrod Ave as a demonstration project that integrates green street/shared facility approaches to treat both the right-of-way and adjacent development.	Location-specific	Location-specific	-
<u>CD</u>	-	<u>C</u>	<u>NMIA sidewalk</u> improvements	Provide sidewalks along Milport Rd, Ochoco St and new local streets. This includes filling gaps in the sidewalk network.	Location-specific	Location-specific	=
<u>CE</u>	-	<u>C</u>	<u>NMIA McLoughlin Blvd</u> <u>green street</u> <u>demonstration</u>	Partner with ODOT to develop a green street demonstration project for McLoughlin Boulevard between Downtown Milwaukie and the Springwater Corridor Pedestrian Bridge.	Location-specific	Location-specific	<u>-</u>

Notes:

TSAP NMIA Plan = North Milwaukie Industrial Area Plan Tacoma Station Area Plan

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

Map ID⁵	Priority	Туре	Project Name	Project Description	From	То	Cost (\$1,000s ⁶)
High P	riority Proje	ects					
E	High	С	Intersection Improvements at Linwood Ave and Monroe St	Improve safety of crossing at intersection.	Location-specific	Location-specific	\$10
G	High	С	Hwy 224 Crossing Improvements at Oak and Washington St	Improve intersection crossing safety for bicyclists at Washington St and Oak St.	Location-specific	Location-specific	\$10
J	High	С	Lake Rd Bike Lanes	Fill in gaps in existing bicycle network with bike lanes.	Main St	Guilford Dr	\$3,400
Ν	High	С	Railroad Ave Capacity Improvements	Bicycle aspect: Fill in gaps in existing bicycle network with bike lanes, cycle track, multiuse path, or other facilities.	37 th Ave	Linwood Ave	\$4,800
U1	High	С	Monroe St Neighborhood Greenway (downtown)	Designate as a "neighborhood greenway" and install traffic- calming improvements.	21 st Ave	Hwy 224	\$85
U2	High	С	Monroe St Neighborhood Greenway (central)	Designate as a "neighborhood greenway" and install traffic- calming improvements.	Hwy 224	42 nd Ave	\$80
U3	High	С	Monroe St Neighborhood Greenway (east)	Designate as a "neighborhood greenway" and install traffic- calming improvements.	42 nd Ave	Linwood Ave	\$165
U4	High	С	29 th /Harvey/40 th Neighborhood Greenway	Designate as a "neighborhood greenway" and install traffic- calming improvements.	Springwater Trail	Monroe St	\$220
U5	High	С	Stanley Ave Neighborhood Greenway (north)	Designate as a "neighborhood greenway" and install traffic- calming improvements.	Springwater Trail	King Rd	\$135
U6	High	С	Stanley Ave Neighborhood Greenway (south)	Designate as a "neighborhood greenway" and install traffic- calming improvements.	King Rd	Railroad Ave	195
Z	High	С	17 th Ave Improvements	Fill in sidewalk gaps on both sides of street, fill in gaps in existing bicycle network with bike lanes, and/or provide multiuse path. Improve intersection safety at Milport Rd, McBrod Ave, Hwy 224, Lava Dr, and Hwy 99E.	Ochoco St	McLoughlin Blvd	\$1,000
AC	High	С	Kronberg Park Trail	Construct multiuse path to connect bike/ped bridge to safe crossing of Hwy 99E.	Kellogg Creek Bridge	River Rd	\$300
AD	High	С	Kellogg Creek Bike/Ped Bridge	Construct bike/ped overpass over Kellogg Creek in conjunction with light rail bridge.	Lake Rd	Kronberg Park	\$2,500

Table 6-2 Bicycle Master Plan Projects

⁵ See Figure 6-<u>3a.</u>

⁶ Project costs are order-of-magnitude estimates and are in 2012 dollars. Future costs may be more due to inflation. In the case of operational projects, estimated costs are for the entire 22-year planning period.

Map ID⁵	Priority	Туре	Project Name	Project Description	From	То	Cost (\$1,000s ⁶)
AE	High	С	Kellogg Creek Dam Removal and Hwy 99E Underpass	Replace Hwy 99E bridge over Kellogg Creek, remove dam, restore habitat. Construct bike/ped undercrossing between downtown Milwaukie and Riverfront Park.	Location-specific	Location-specific	\$9,900
AF	High	С	Intersection Improvements at McLoughlin Blvd and 22 nd Ave	Improve safety of Trolley Trail crossing at 22 nd Ave.	Location-specific	Location-specific	\$200
AG	High	С	Improved Connection to Springwater Trail at 29 th Ave and Sherrett St	Pave the connection to Springwater Trail at 29 th Ave and Sherrett St. (TSAP NMIA Plan)	Location-specific	Location-specific	\$20
AH	High	С	Improved Connection from Springwater Trail to Pendleton Site (Ramps)	Construct ramps to improve existing connection of Springwater Trail to Pendleton site at Clatsop St. (TSAP NMIA Plan)	Location-specific	Location-specific	\$630
AH	High	С	Improved Connection from Springwater Trail to Pendleton Site (Widened Undercrossing)	Widen existing undercrossing to improve connection of Springwater Trail to Pendleton site at Clatsop St. (TSAP NMIA Plan)	Location-specific	Location-specific	\$100
N/A	High	0	Bike Lane Maintenance	Sweep bike lanes to remove debris.	Citywide	Citywide	\$1,200
N/A	High	0	Bicycle-friendly Street Grates	Install bicycle-friendly street grates.	Citywide	Citywide	\$60
Mediur	n Priority P	Projects					
l	Med	С	Harrison St Bike Lanes	Fill in gaps in existing bicycle network with bike lanes (cost included with Harrison St road widening project).	Hwy 99E	21 st Ave	\$300
K	Med	С	Oatfield Rd Bike Lanes	Fill in gaps in existing bicycle network with bike lanes.	Guilford Ct	Lake Rd	\$380
U7	Med	С	19 th and Sparrow Neighborhood Greenway	Designate as a "neighborhood greenway" and install traffic- calming improvements. This would connect the south end of Kellogg Creek Trail to River Rd.	Eagle St	River Rd	\$800
V	Med	С	Bicycle and Pedestrian Overpass over Railroad Ave	Establish a dedicated bicycle and pedestrian connection across Railroad Ave and the railroad tracks.	Railroad Ave	International Way	\$2,200
AB	Med	С	Springwater Trail Completion	Contribute to regional project to complete Springwater Trail ("Sellwood Gap") along Ochoco St.	17 th Ave	19 th Ave	\$90
AI	Med	С	International Way Bicycle Facilities	Construct bike lanes or other bike facilities.	37 th Ave	Lake Rd	\$400
AJ	Med	С	Bicycle/Pedestrian Improvements to Main St	Construct multiuse path or other improved bike/ped facilities on Main St to provide safer connection between downtown and Tacoma station. (TSAP NMIA Plan)	Hanna Harvester Dr	Tacoma station	\$2,900

Map ID⁵	Priority	Туре	Project Name	Project Description	From	То	Cost (\$1,000s ⁶)
AK	Med	С	Bicycle/Pedestrian Connection from Eastern Neighborhoods to Tacoma Station Area	Establish bike/ped connection over existing railroad tracks and light rail to Tacoma station area. (TSAP NMIA Plan)	Olsen St & Kelvin St	Mailwell Dr	\$4,000
AL	Med	С	Improved Connection from Springwater Trail to McLoughlin Blvd	Construct stairs or other facility to connect Springwater Trail to west side of McLoughlin Blvd. (TSAP NMIA Plan)	Location-specific	Location-specific	\$500
AM	Med	С	Bicycle/Pedestrian Connection over Johnson Creek	Construct bike/ped bridge over Johnson Creek along Clatsop St at 23 rd Ave to connect Tacoma station area with adjacent neighborhood. (TSAP NMIA Plan)	Location-specific	Location-specific	\$400
AN	Med	С	Improved Bicycle/Pedestrian Connections on West Side of Tacoma Station Area	Improve bike/ped connections to adjacent neighborhood to west of Tacoma station area at Ochoco St and Milport Rd. (TSAP NMIA Plan)	Location-specific	Location-specific	\$500
N/A	Med	0	Bicyclist Education	Promote bicycling through bike use and route selection education.	Citywide	Citywide	\$10
N/A	Med	0	Community Bicycle Rides	Support community bike rides to encourage bike use.	Citywide	Citywide	\$5
Low Pr	iority Proje	ects					
В	Low	С	Springwater Trail Intersection Improvements at 45 th Ave	Improve safety of crossing at intersection.	Location-specific	Location-specific	\$10
С	Low	С	Intersection Improvements at Johnson Creek Blvd and Linwood Ave	Improve safety of crossing at intersection.	Location-specific	Location-specific	\$10
D	Low	С	Intersection Improvements at Linwood Ave and King Rd	Improve safety of crossing at intersection.	Location-specific	Location-specific	\$10
Н	Low	С	Intersection Improve- ments at International Way and Lake Rd	Improve safety of crossing at intersection.	Location-specific	Location-specific	\$10
L	Low	С	Harrison St Bike Lanes	Fill in gaps in existing bicycle network with bike lanes.	Hwy 224	42 nd Ave	\$10
М	Low	С	37th Ave Bike Lanes	Fill in gaps in existing bicycle network with bike lanes.	Harrison St	Hwy 224	\$3,200
0	Low	С	43 rd Ave Bike Lanes	Fill in gaps in existing bicycle network with bike lanes.	King Rd	Filbert St	\$1,100
Ρ	Low	С	Linwood Ave Bike Lanes (north)	Fill in gaps in existing bicycle network with bike lanes.	Queen Rd	Johnson Creek Blvd	\$1,900

Map ID⁵	Priority	Туре	Project Name	Project Description	From	То	Cost (\$1,000s ⁶)
Q	Low	С	Linwood Ave Bike Lanes (south)	Fill in gaps in existing bicycle network with bike lanes.	Juniper St	Harmony Rd	\$320
R	Low	С	Rusk Rd Bike Lanes	Fill in gaps in existing bicycle network with bike lanes.	Lake Rd	North Clackamas Park	\$1,000
Х	Low	С	Kellogg Creek Trail Improvements	Resurface trail and provide wayfinding signage to/from trail.	Milwaukie Riverfront	Treatment Plant	\$680
AH	Low	С	Improved Connection from Springwater Trail to Pendleton Site (Tunnel)	Construct tunnel under Springwater Trail to improve connection to Pendleton site at Clatsop St. (TSAP NMIA Plan)	Location-specific	Location-specific	\$1,200
AO	Low	С	Bike/Ped Path on Sparrow St	Establish a dedicated bicycle and pedestrian connection on Sparrow St, connecting River Rd to Trolley Trail	River Rd	Trolley Trail	\$350
AP	Low	С	Bike/Ped Overpass over McLoughlin Blvd at River Rd	Establish a dedicated bicycle and pedestrian connection across McLoughlin Blvd.	Kronberg Park	River Rd	\$2,500
AQ	Low	С	Crossing Improvements for McLoughlin Blvd at Ochoco St and Milport Rd	Construct improvements at Ochoco St and Milport Rd to improve bike/ped crossing of McLoughlin Blvd (per ODOT, this will require full intersection improvements). (TSAP NMIA Plan)	Location-specific	Location-specific	\$8,320
AR	Low	С	Bicycle/Pedestrian Connection between McLoughlin Blvd and Stubb St	Establish bike/ped connection to McLoughlin Blvd sidewalk at west end of Stubb St. (TSAP NMIA Plan)	Location-specific	Location-specific	\$20
N/A	Low	0	Milwaukie Bike Map	Produce a Milwaukie Bike Map.	Citywide	Citywide	\$60
N/A	Low	0	Police Enforcement on Drivers	Enforce laws related to bike lanes and bicycle safety.	Citywide	Citywide	\$10
N/A	Low	0	Bike Lane Striping	Restripe existing bike lanes and stripe bike lanes on streets where buses and bicyclists share the road.	Citywide	Citywide	\$20
N/A	Low	С	Springwater Trail Signage	Install wayfinding signage for Springwater Trail.	Citywide	Citywide	\$20
N/A	Low	0	North Clackamas Greenway Corridor Study	Study feasibility of corridor for multiuse path construction (possibly along Kellogg Creek).	Downtown	Clackamas Regional Center	\$50
Priority	/ to be Dete	ermined					
AS	-	С	Oak St/34 th Ave Connection	Provide pedestrian/bicycle connection between Monroe St and 34 th Ave (nearby residential neighborhood)	Location-specific	Location-specific	-
AT	-	С	Northern Bike Connection	Provide a bicycle connection through the Murphy site north to 29 th Ave	Location-specific	Location-specific	-
AU	-	С	Crossing at Harrison St/31 st Ave	Provide bicycle crossing across Harrison St between Campbell St and 31 st Ave	Location-specific	Location-specific	-

Map ID⁵	Priority	Туре	Project Name	Project Description	From	То	Cost (\$1,000s ⁶)
AV	-	С	Campbell St and Railroad Ave upgrades	Provide pedestrian/bicycle treatments on Campbell St and Railroad Ave between Monroe St and Harrison St	Location-specific	Location-specific	-
AW	-	С	Connection through Union Pacific Railroad property and McFarland site	Provide pedestrian/bicycle connection on Union Pacific Railroad land located in the triangle formed by the rail line, Railroad Ave and Monroe St; continues through McFarland site	Location-specific	Location-specific	-
AS	-	С	Oak St/34 th Ave Connection	Provide pedestrian/bicycle connection between Monroe St and 34 th Ave (nearby residential neighborhood)	Location-specific	Location-specific	-
AT	-	С	Northern Bike Connection	Provide a bicycle connection through the Murphy site north to 29 th Ave	Location-specific	Location-specific	-
<u>BA</u>	-	<u>C</u>	<u>NMIA Bike-Ped</u> <u>Connections – Ochoco St</u>	Provide pedestrian/bicycle connection along Ochoco St to Roswell St across the railroad tracks to improve connectivity and circulation to/from the NMIA.	Location-specific	Location-specific	-
<u>BB</u>	<u>-</u>	<u>C</u>	<u>NMIA multi-use path</u> extension	Extend the Main St multi-use path from Beta St to the Tacoma light rail station	Location-specific	Location-specific	<u>-</u>
<u>BC</u>	-	<u>C</u>	McBrod Ave green street	Develop McBrod Ave as a demonstration project that integrates green street/shared facility approaches to treat both the right-of-way and adjacent development.	Location-specific	Location-specific	:
<u>BD</u>	-	<u>C</u>	<u>NMIA sidewalk</u> improvements	Provide sidewalks along Milport Rd, Ochoco St and new local streets. This includes filling gaps in the sidewalk network.	Location-specific	Location-specific	:
<u>BE</u>	=	<u>C</u>	NMIA McLoughlin Blvd green street demonstration	Partner with ODOT to develop a green street demonstration project for McLoughlin Boulevard between Downtown Milwaukie and the Springwater Corridor Pedestrian Bridge.	Location-specific	Location-specific	-

Notes:

TSAP NMIA Plan = North Milwaukie Industrial Area Plan Tacoma Station Area Plan

C = Capital Project O = Operational Project P = Policy Project

High = High priority Med = Medium priority Low = Low priority

Map ID ⁷	Priority	Туре	Project Name	Project Description	From	То	Cost (\$1,000s) ⁸
High P	riority Proj	ects					
С	High	С	Hwy 224 & Hwy 99E Refinement Plan	Conduct refinement study to establish alternative mobility targets for Hwy 224 and McLoughlin Blvd for locations not meeting applicable State targets, and explore ways to minimize barrier effect and improve auto and freight mobility.	Hwy 99E Project Limits: Tacoma St to River Rd	Hwy 224 Project Limits: Hwy 99E to Lake Rd Interchange	\$270
D	High	С	Intersection Improvements at Hwy 224 and 37th Ave	Consolidate the two northern legs of 37 th Ave and International Way into one leg at Hwy 224.	Location-specific	Location-specific	\$2,100
Н	High	С	Linwood Ave Capacity Improvements (north)	Widen to standard three lane cross section. Widen bridge over Johnson Creek.	Johnson Creek Blvd	King Rd	\$9,300
Η	High	С	Linwood Ave Capacity Improvements (south)	Widen to standard three lane cross section.	King Rd	Harmony Rd	\$12,500
Р	High	С	Intersection Improvements at Hwy 224 and Oak St	Add left-turn-lanes and protected signal phasing on Oak St approaches.	Location-specific	Location-specific	\$20
R	High	С	Stanley Ave Connectivity at King Rd	Enhance connection along Stanley Ave at King Rd.	Location-specific	Location-specific	\$60
S	High	С	Stanley Ave Connectivity at Monroe St	Enhance connection along Stanley Ave at Monroe St.	Location-specific	Location-specific	\$60
V	High	С	Intersection Improvements at McLoughlin Blvd and 22 nd Ave	Improve safety of Trolley Trail crossing at 22 nd Ave.	Location-specific	Location-specific	\$200
Mediur	n Priority P	rojects					
A	Med	С	Intersection Improvements at McLoughlin Blvd and 17 th Ave	Prohibit left-turn movement from 17 th Ave to northbound McLoughlin Blvd and include in Hwy 224 & Hwy 99E Refinement Plan.	Location-specific	Location-specific	\$20

Table 8-10 Street Network Master Plan Projects

⁷ See Figure 8-4.

⁸ Project costs are <u>order-of-magnitude estimates and are</u> in <u>2012</u> dollars. Future costs may be more due to inflation. In the case of operational projects, estimated costs are for the entire 22-year planning period.

Map ID ⁷	Priority	Туре	Project Name	Project Description	From	То	Cost (\$1,000s) ⁸
E	Med	С	Intersection Improve- ments at Johnson Creek Blvd and Linwood Ave	Add eastbound right-turn lane and westbound right-turn lane.	Location-specific	Location-specific	\$880
G	Med	С	Intersection Improvements at Linwood Ave and King Rd	Implement protected/permissive left-turn phasing for northbound and southbound approaches.	Location-specific	Location-specific	\$20
J	Med	С	Intersection Improvements at McLoughlin Blvd and River Rd	Consolidate a single access point for the area at Bluebird St with full intersection treatment and signalization or add second northbound left-turn lane at River Rd.	Location-specific	Location-specific	\$980
К	Med	С	Harrison St Capacity Improvements	Widen to standard three lane cross section.	32 nd Ave	42 nd Ave	\$2,800
L	Med	С	Intersection Improvements at Harrison St and Hwy 224	Add left-turn-lanes and protected signal phasing on Harrison St approaches.	Location-specific	Location-specific	\$20
0	Med	С	Harrison St and King Rd Connection	Enhance connection between King Rd and Harrison St	King Rd	Harrison St	\$60
Low Pr	iority Proje	ects					
В	Low	С	Intersection Improvements at 42 nd Ave and Harrison St	Signalize intersection to facilitate dominant traffic flow.	Location-specific	Location-specific	\$280
Ι	Low	С	Railroad Ave Capacity Improvements	Widen to standard three lane cross section.	37 th Ave	Linwood Ave	\$14,200
М	Low	С	Lake Rd Capacity Improvements	Widen to standard three lane cross section.	21 st Ave	Oatfield Rd	\$8,100
Ν	Low	С	Johnson Creek Blvd and 42 nd Ave Signalization	Replace 3-way stop with signal when warranted.	Location-specific	Location-specific	\$270
Q	Low	С	Hwy 224 Access Modifications at Freeman Way	Modify access at Freeman Way to improve intersection functioning.	Location-specific	Location-specific	\$1,400
W	Low	С	Intersection Improvements at 42 nd Ave and King Rd	Realignment of intersection to improve traffic movements between 42 nd Ave and King Rd east of 42 nd Ave.	Location-specific	Location-specific	\$200

Map ID ⁷	Priority	Туре	Project Name	Project Description	From	То	Cost (\$1,000s) ⁸
Х	Low	С	Local Street Connections in Tacoma Station Area	Connect local streets within Tacoma station area: 24 th Ave between Ochoco St/Moores St & Clatsop St; Omark St between Mailwell Dr & Beta St (w/midblock connection from Main St); and Mailwell Dr to Harrison St via 26 th Ave. (TSAP NMIA Plan)	Location-specific	Location-specific	\$8,120
Y	Low	С	Local Street Improvements in Tacoma Station Area	Construct street improvements on Stubb St, Beta St, Ochoco St, Hanna Harvester Dr, and Mailwell Dr. (TSAP-NMIA Plan)	Location-specific	Location-specific	\$5,280
<u>AA</u>	-	<u>C</u>	McBrod Ave green street	Develop McBrod Ave as a demonstration project that integrates green street/shared facility approaches to treat both the right-of-way and adjacent development.	Location-specific	Location-specific	:
<u>AB</u>	-	<u>C</u>	<u>NMIA intersection</u> redesign	Based on the outcomes, redesign the Ochoco St and Milport Rd intersections to improve wayfinding, circulation and pedestrian safety. Improvements should include geometric and wayfinding/signage improvements.	Location-specific	Location-specific	-
<u>AC</u>	-	<u>C</u>	<u>NMIA McLoughlin Blvd</u> green street demonstration	Partner with ODOT to develop a green street demonstration project for McLoughlin Boulevard between Downtown Milwaukie and the Springwater Corridor Pedestrian Bridge.	Location-specific	Location-specific	<u>-</u>
<u>AD</u>	<u>-</u>	<u>C</u>	NMIA navigability reconfiguration	Reconfigure the Moores St/Ochoco St/23rd Ave area to be more navigable and easier to develop adjacent properties.	Location-specific	Location-specific	<u>-</u>
<u>AE</u>	=	<u>C</u>	<u>NMIA right-of-way road</u> <u>design</u>	Create a public right-of-way from Mailwell Dr through the existing loading docks to 26 th Ave. Road design should restrict large trucks from entering the adjacent neighborhoods south of the project area.	Location-specific	Location-specific	-
<u>AF</u>	=	<u>C</u>	<u>NMIA street grid</u> <u>development</u>	Develop a street grid that provides options for transit, vehicles, pedestrians and bicyclists to connect to and through the District, where appropriate.	<u>NMIA</u>	<u>NMIA</u>	-

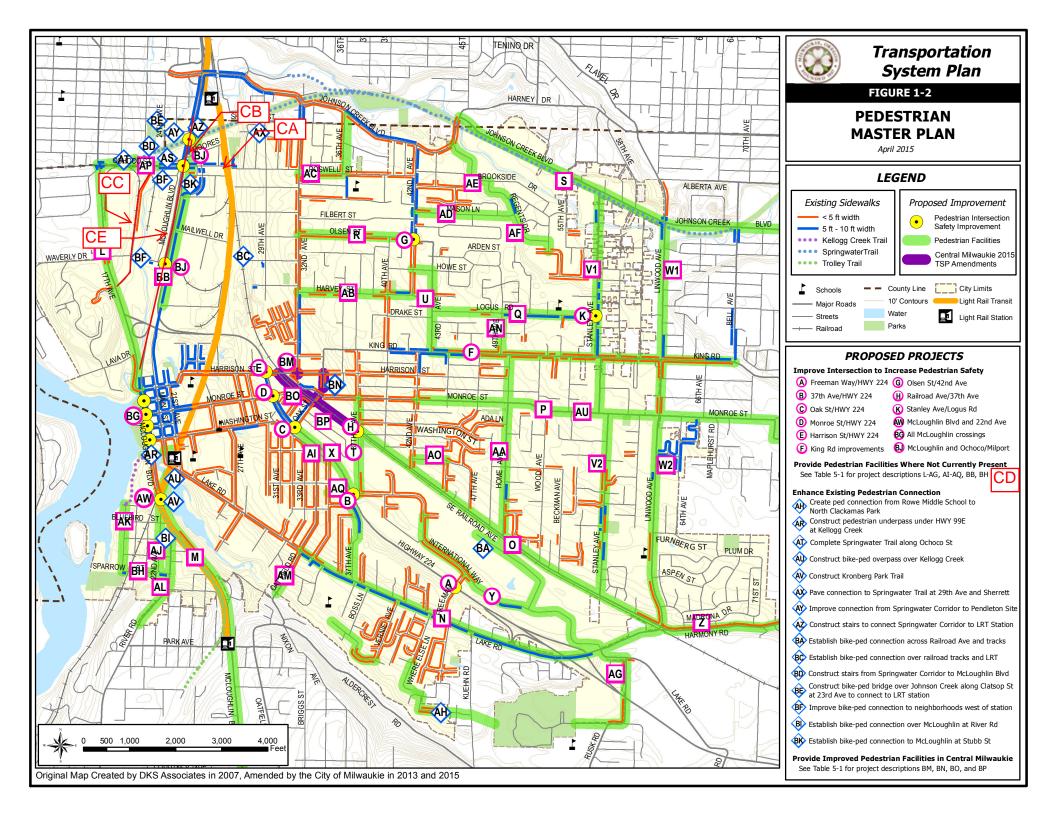
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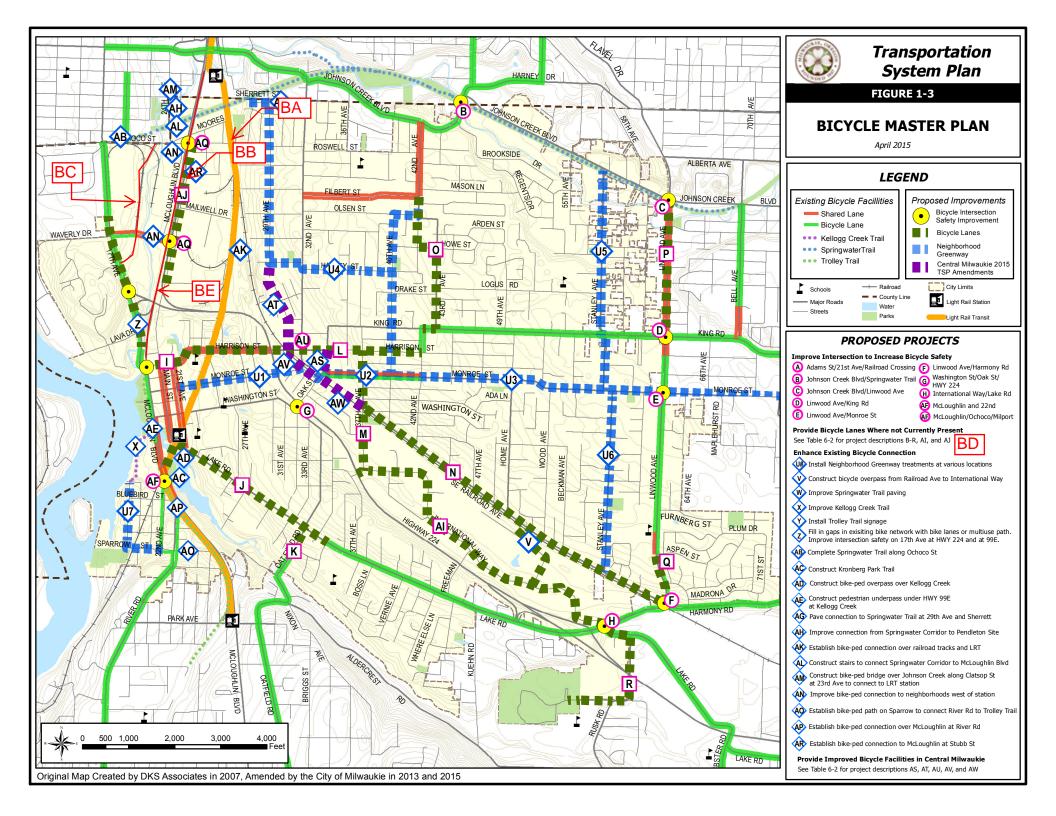
C = Capital Project

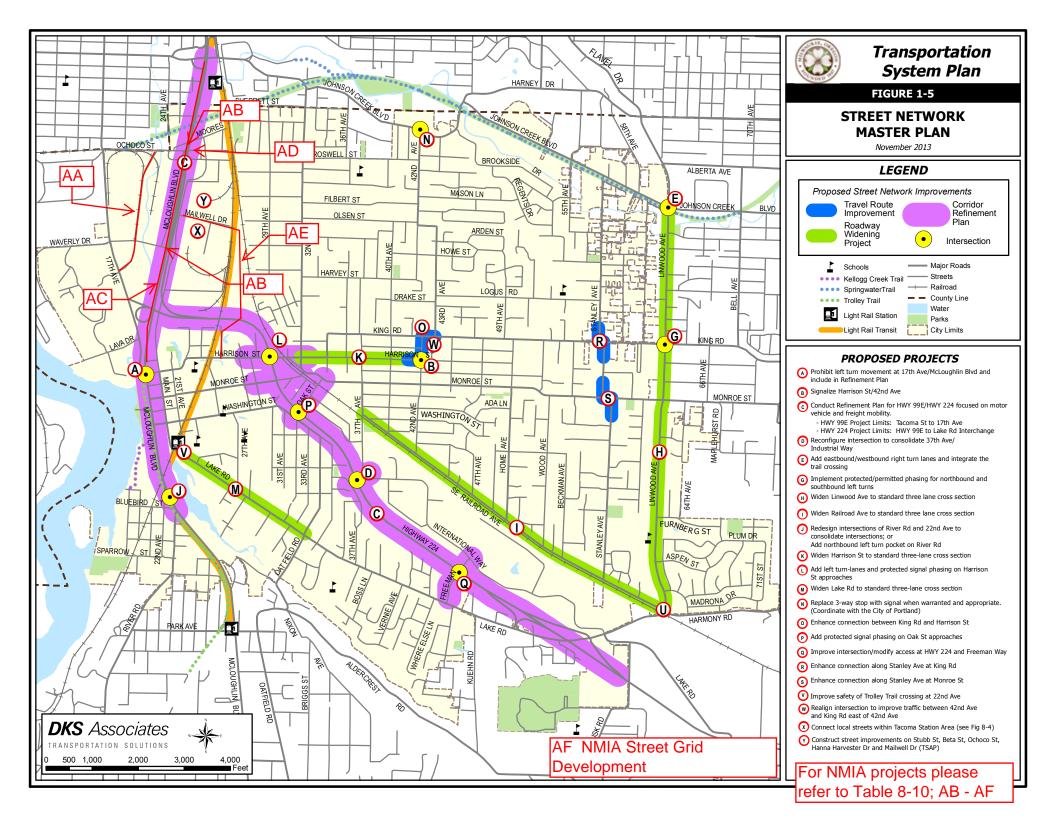
O = Operational ProjectP = Policy Project

High = High priority Med = Medium priority Low = Low priority

TSAP NMIA Plan = North Milwaukie Industrial Area Plan Tacoma Station Area Plan









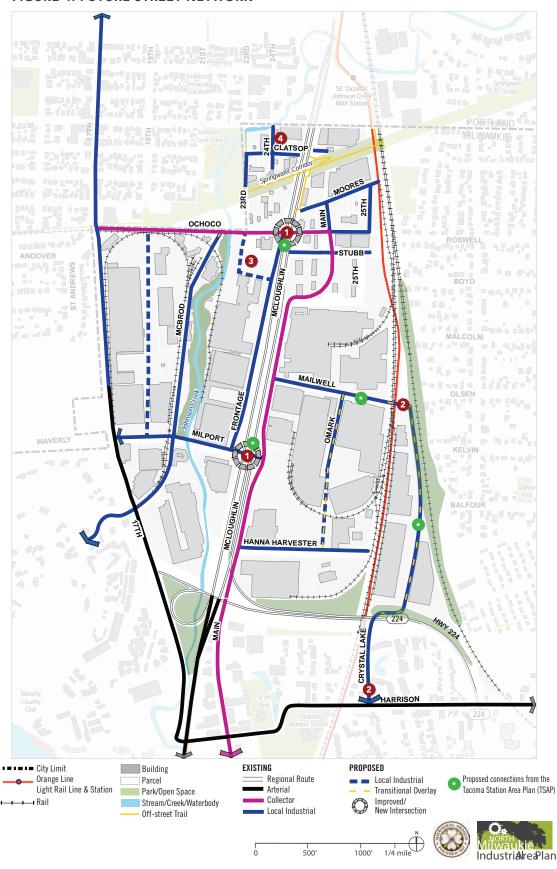
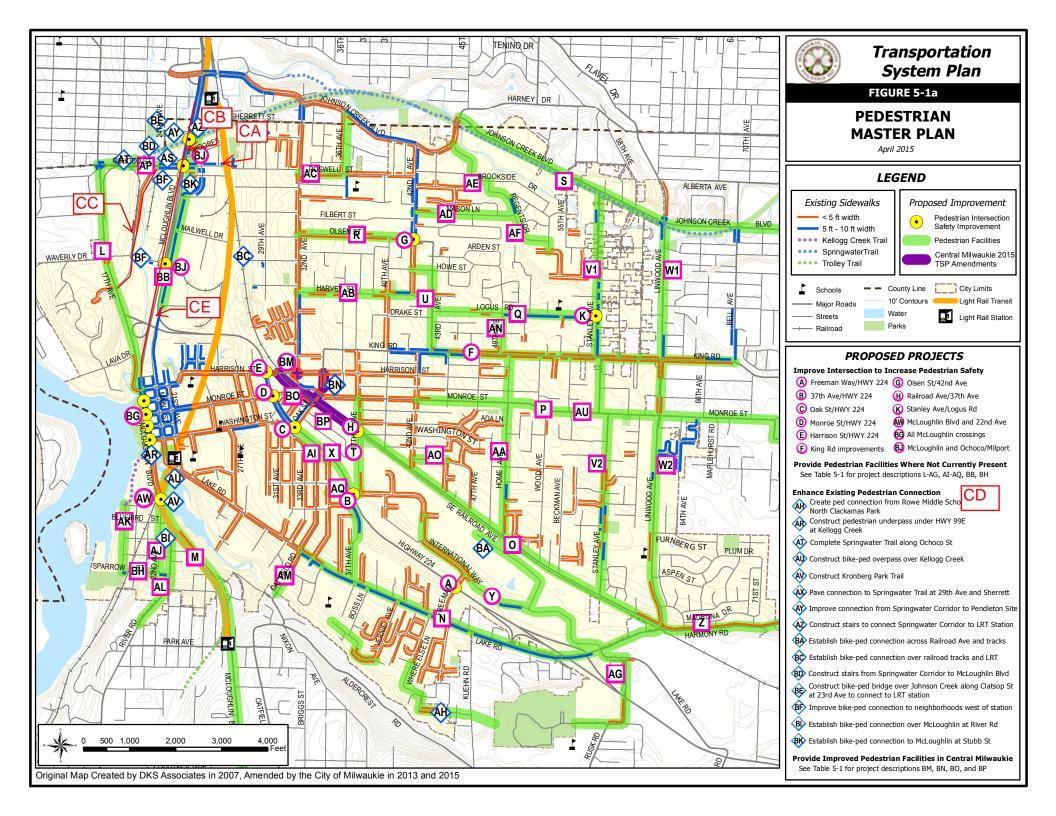


FIGURE 4: FUTURE STREET NETWORK



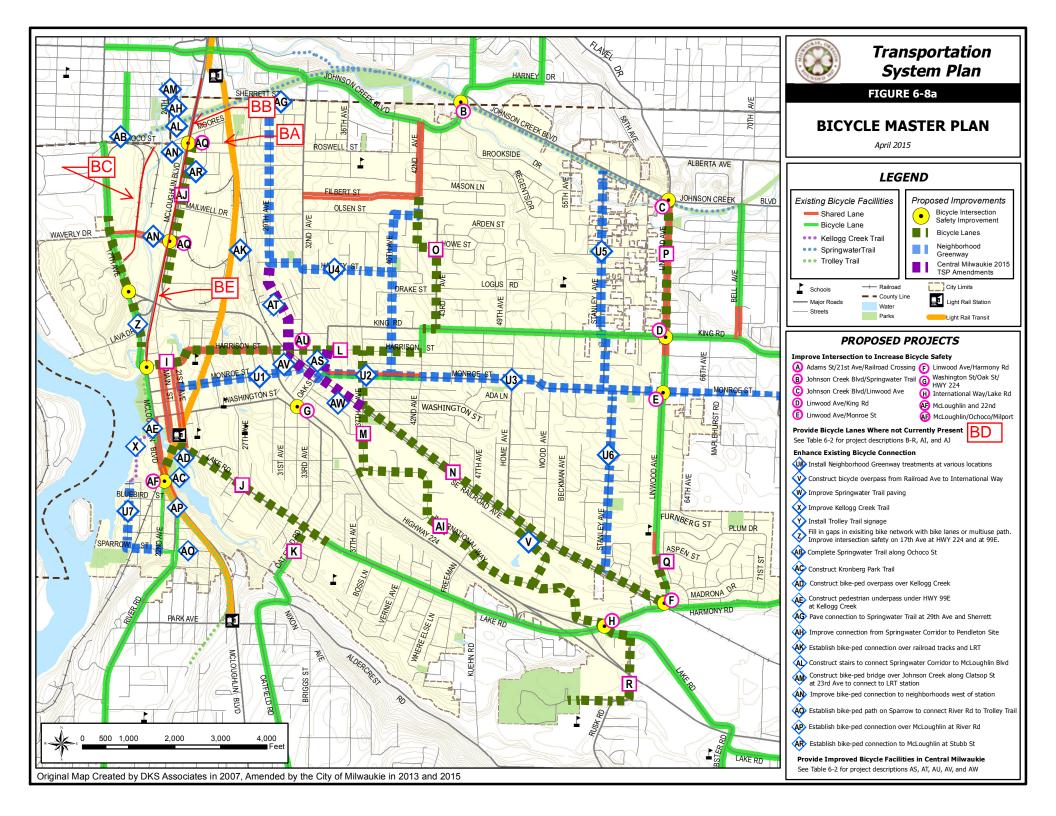




FIGURE 7: NON-MOTORIZED STREET NETWORK

