



Downtown Transportation Plan Update

DOWNTOWN BELLEVUE MOBILITY TRANSPORTATION COMMISSION RECOMMENDATION

**BRIEFING TO EAST MAIN STATION CAC
JANUARY 27, 2015**

KEVIN MCDONALD, AICP
SENIOR TRANSPORTATION PLANNER

Briefing Overview

- City Council Planning Principles
- Public Involvement Summary
- Land Use and Travel Demand Forecasts
- Transportation Commission Recommendations
- Current Implementation – Projects and Policies
- Discussion – Enhancing Access to East Main Station

Planning Principles

Adopted by City Council February 6, 2012

- **Plan for multiple modes of travel within and to and from Downtown Bellevue**
- Accommodate the anticipated travel demands from the 2030 land use forecast
- Advance the adopted vision for Downtown Bellevue
- **Recognize changes in the regional and local transportation and land use environment**
- Integrate prior City Council direction
- Provide for comprehensive public involvement
- Minimize traffic impacts on neighborhoods
- Involve regional transportation and planning partners
- Leverage funding from outside sources to implement projects
- Utilize measures of effectiveness to evaluate potential projects

Public Involvement Summary

- Walking Tours and Bicycling Tours
- Open Houses
- Community Groups
 - Bellevue Downtown Association
 - Bellevue Chamber of Commerce
 - Building Owners and Managers Association
 - Eastside Transportation Association
 - Easy Rider Collaborative (Human Services Commission)
- Professional Organizations
- 7 City Council briefings
- 25 Transportation Commission meetings
- Web site: <http://www.bellevuewa.gov/downtown-transportation-plan-update.htm>

Downtown Land Use Forecast

	1990	2000	2010	2030	2010/2030 Growth
Employment	22,257	34,042	42,525	70,300	+27,775
Population	1,182	2,588	7,147	19,000	+11,853



Downtown Population + Employment 2010

Including Medical Institution District



2010 Employment and Population Totals by TAZ

Downtown Transportation Plan Update

2010 Baseline

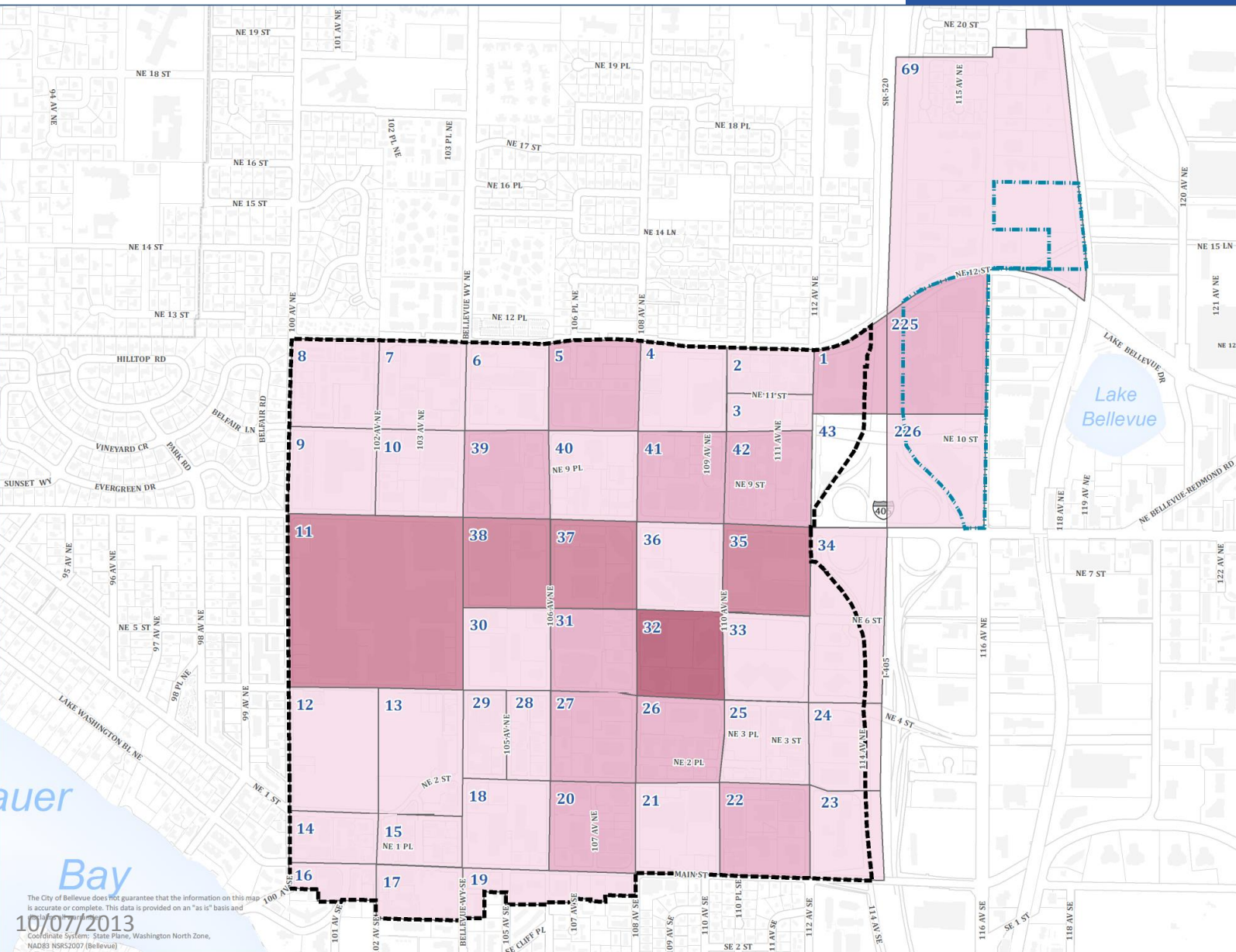
[] Transportation Analysis Zone Number (TAZ)

Combined Totals

- [] No Jobs or Residents
- [] 1 to 1,500
- [] 1,501 to 3,000
- [] 3,001 to 4,500
- [] 4,501 to 6,000
- [] Over 6,000

Area Boundaries

- [] Downtown Bellevue
- [] Medical Institution District



80,000 Feet

Sources: City of Bellevue Building Footprints, Spring 2010

10/07/2013

The City of Bellevue does not guarantee that the information on this map is accurate or complete. This data is provided on an "as is" basis and

Downtown Population + Employment 2030

*Based on existing zoning

Including Medical Institution District



2030 Employment and Population Totals by TAZ

Downtown Transportation Plan Update

2030 Projections

Transportation Analysis Zone Number (TAZ)

Combined Totals

- No Jobs or Residents
- 1 to 1,500
- 1,501 to 3,000
- 3,001 to 4,500
- 4,501 to 6,000
- Over 6,000

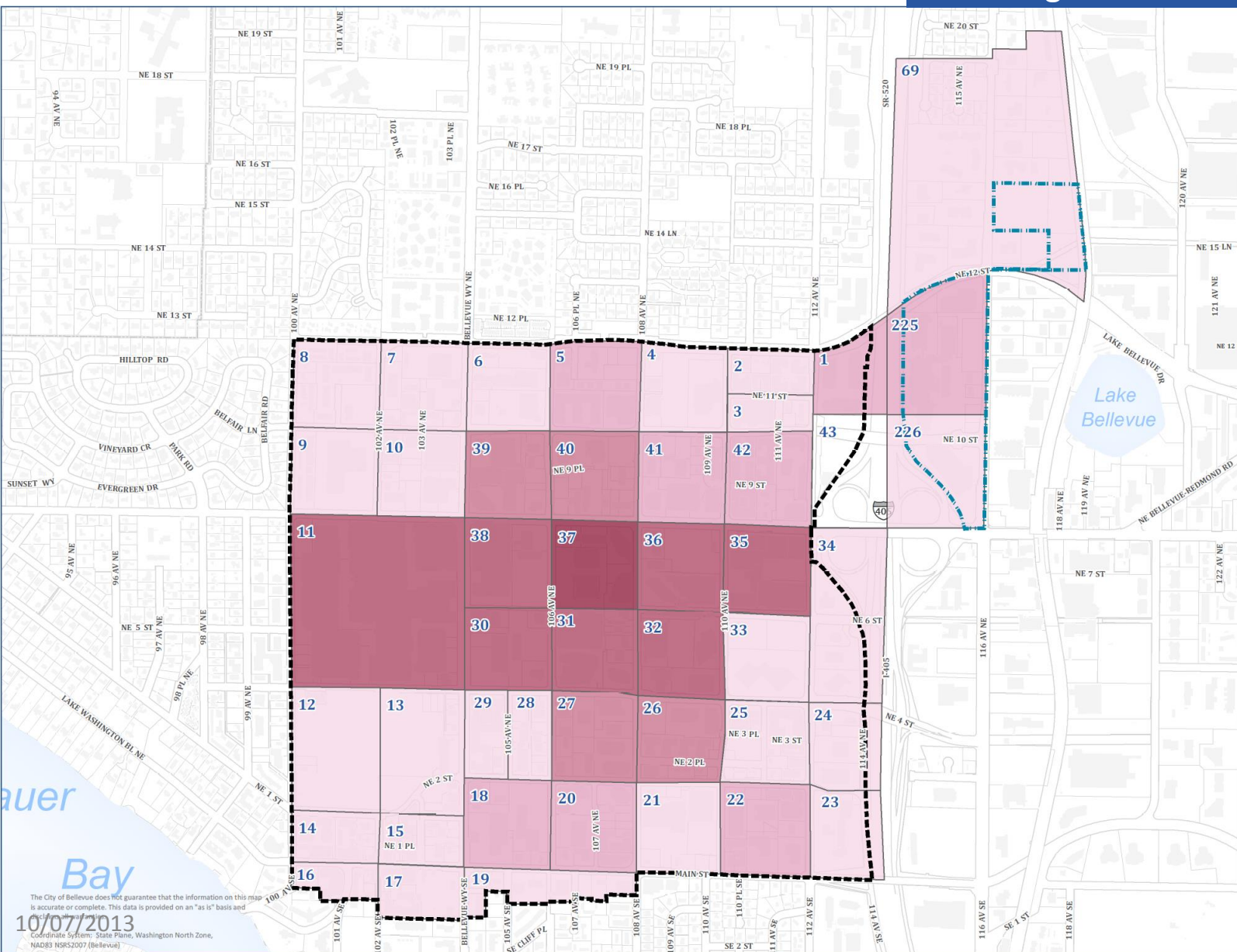
Area Boundaries

- Downtown Bellevue
- Medical Institution District



80,000 Feet

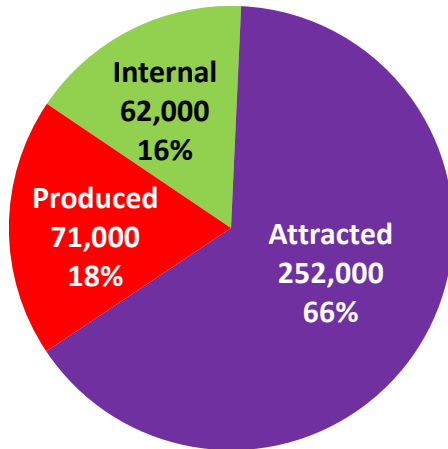
Sources:
City of Bellevue
Building Footprints:
Spring 2009



BKR Model – Total Downtown Person Trips

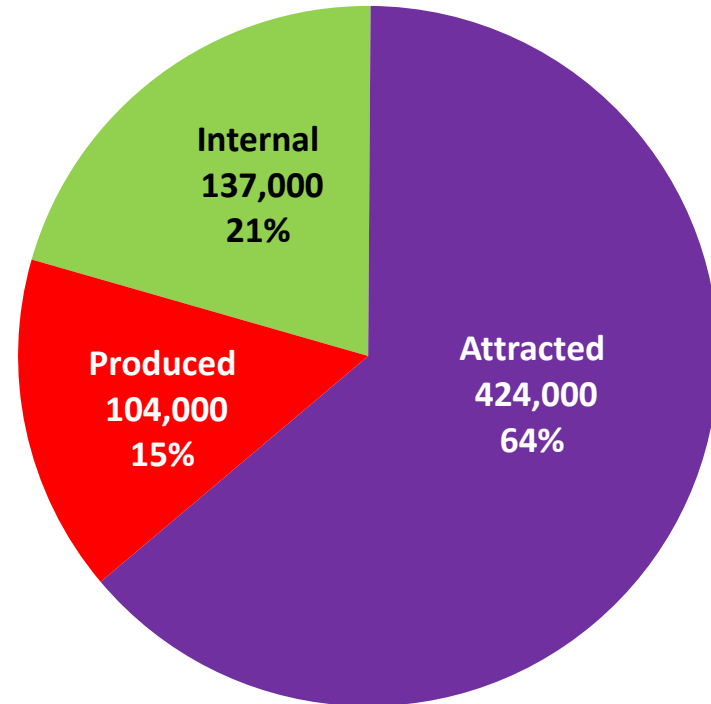
Origins and destinations for any trip purpose using any mode

2010 Daily Person Trips



~ 385,000

2030 Daily Person Trips



~ 665,000

Downtown Mobility Options

Vehicles



Transit



Bicycles

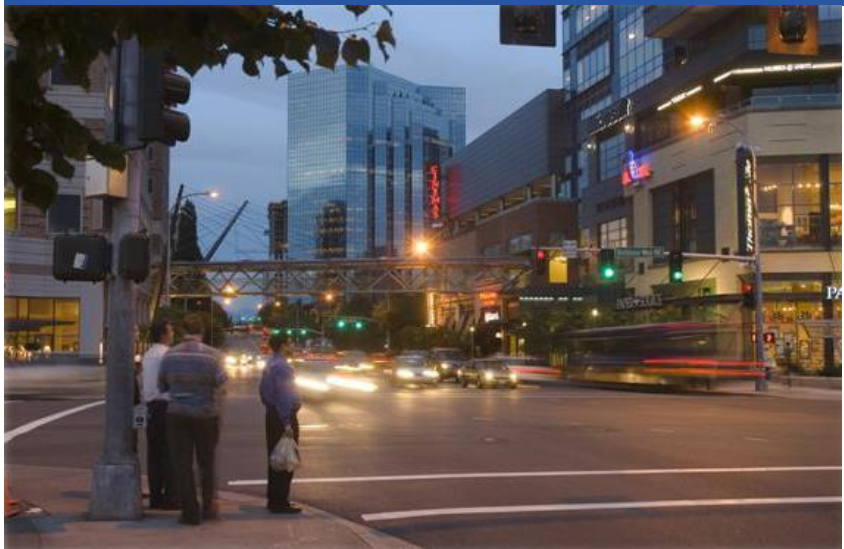


Pedestrians



Downtown Vehicle Mobility

Downtown Access



Regional + Neighborhood Access



Roadway Capacity



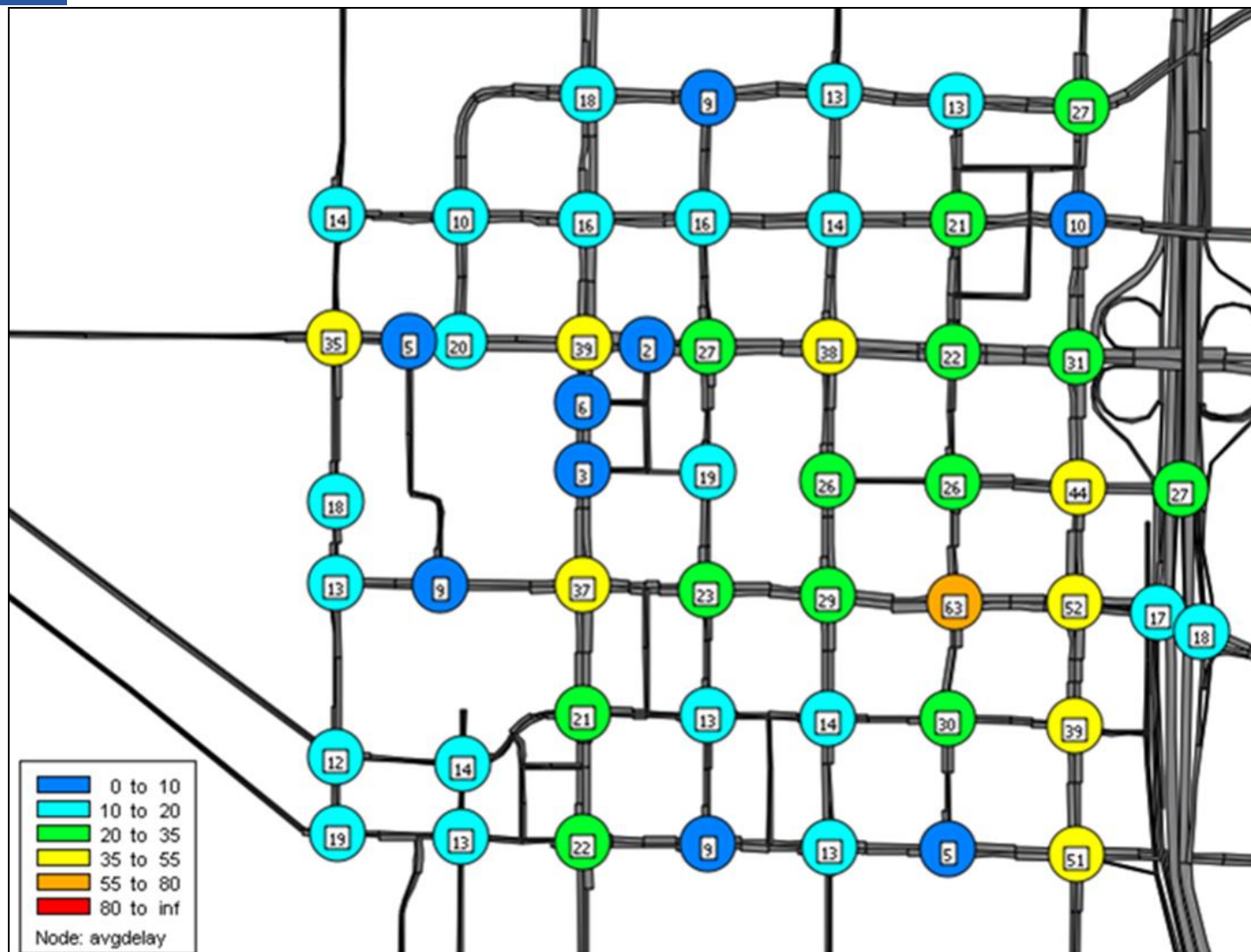
Intersection Operations



BELLEVUE

INTELLIGENT TRANSPORTATION SYSTEMS

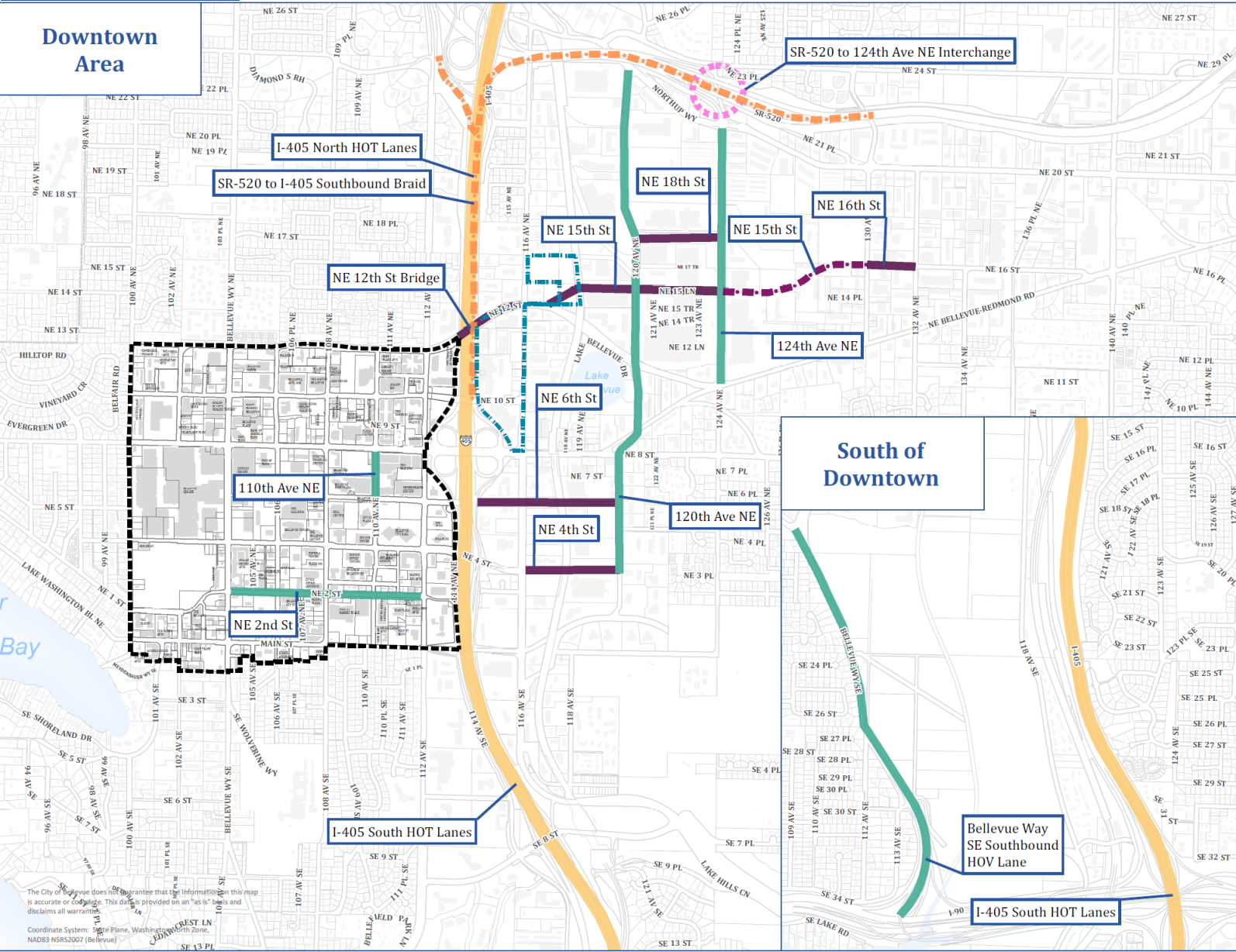
2010 PM Peak Average Intersection Vehicle Delay and Level of Service Rating



2010 Base Year Vehicle Delay/LOS

2030 Roadway Capacity Projects

Downtown
Area



Roadway
Capacity: 2030
Baseline & "Build"
Downtown Area
Downtown Transportation
Plan Update

Roadway Projects

Baseline

- Arterial Extension
- Arterial Widening
- Freeway

"Build"

- Arterial Extension
- Freeway
- Interchange

Area Boundaries

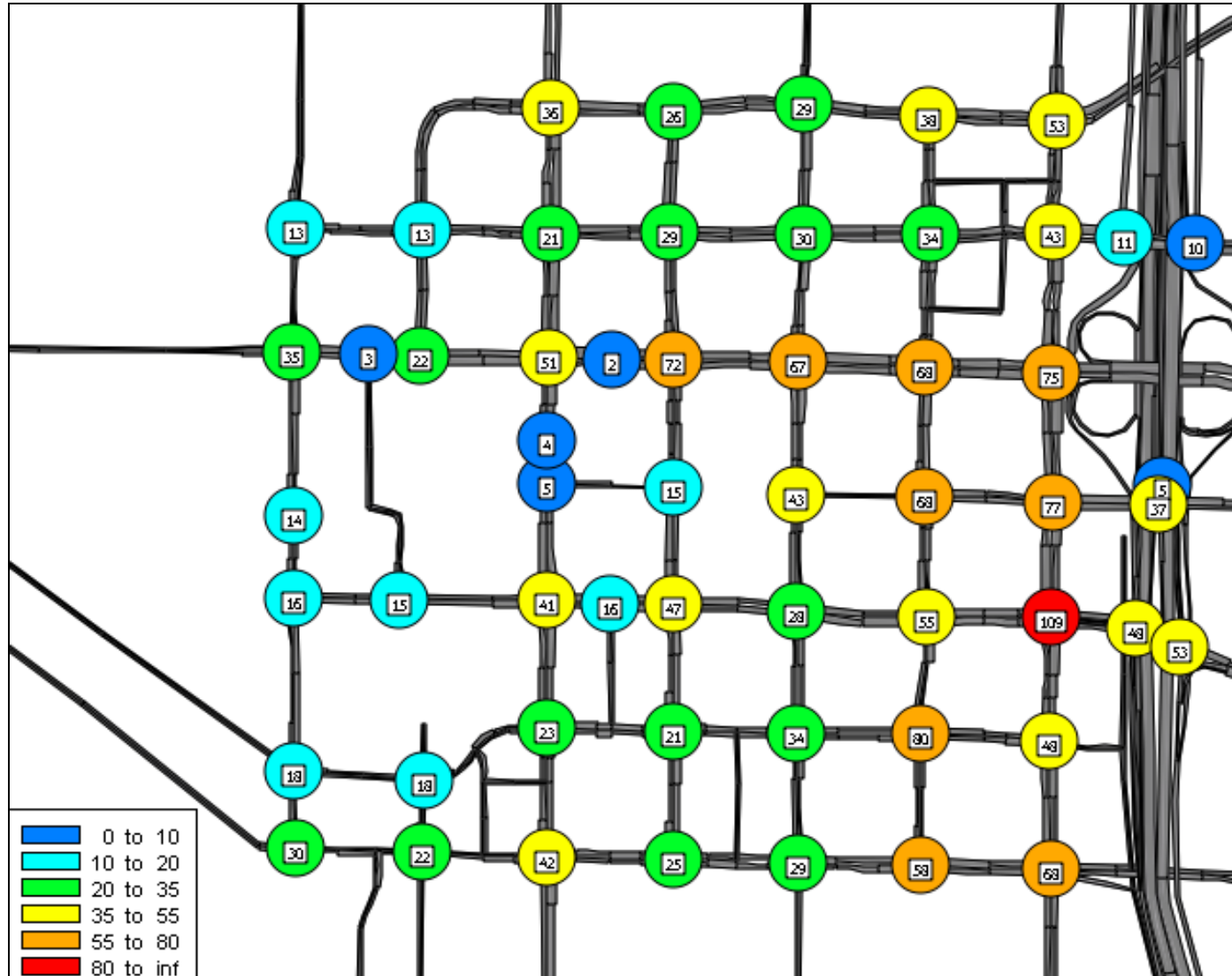
- Downtown Bellevue
- Medical Institution District



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Coordinate System: State Plane, Washington North Zone, NAD83 NRS32007 (Bellevue)

2030 PM Peak Average Intersection Vehicle Delay and Level of Service Rating



2030 "Build" Scenario Vehicle Delay/LOS

Curbside Uses

Parking & Loading



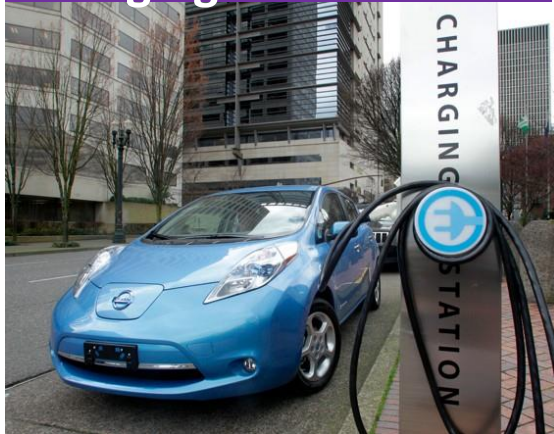
Park(ing) Day



Taxi Stands



Electric Vehicle Charging Stations



Passenger Pick-Up/Drop-Off



Bikeshare Docking & Bike Parking Corrals



Downtown Transit Mobility

Coverage



Speed and Reliability



Capacity



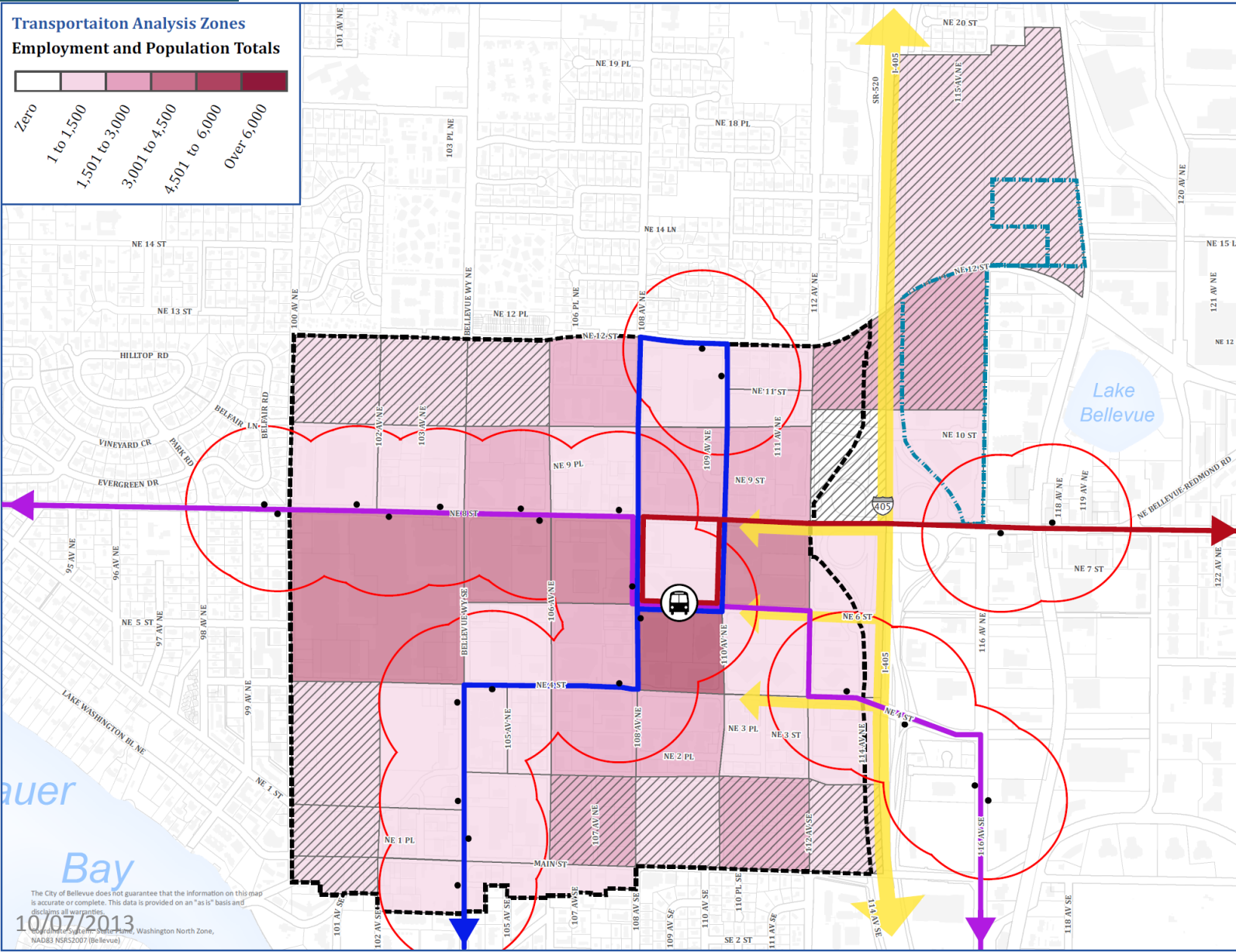
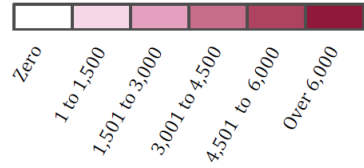
Comfort/Access/Information



2010 Transit Coverage: 86%

Frequent Transit Network Routes

Transportation Analysis Zones
Employment and Population Totals



2010 Population and Employment Transit Coverage

Downtown Transportation Plan Update

Transit Coverage

Frequent Transit Network

- 550
- 271
- 253
- Regional Bus Access

- Transit Center
- Within 600' of a Stop on the Frequent Transit Network
- TAZ without Frequent Transit Network Service

Area Boundaries

- Downtown Bellevue
- Medical Institution District



Sources:
City of Bellevue
Building Footprints:
Spring 2009

2030 Transit Coverage: 97%

Recommended Frequent Transit Network Routes



2030 Population and Employment Transit Coverage

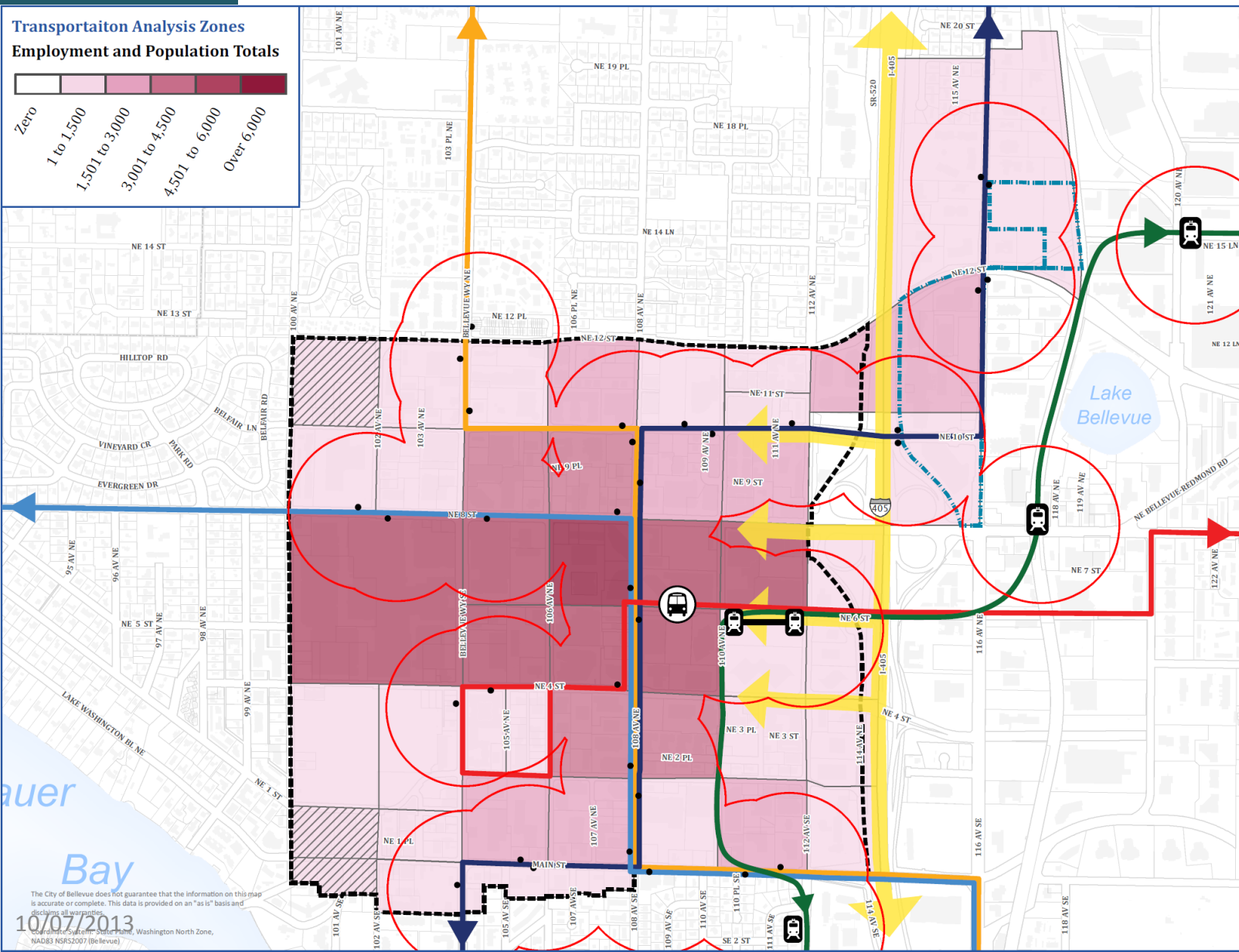
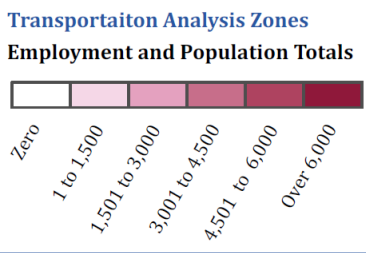
Downtown Transportation Plan Update

- Transit Coverage**
- East Link Service
 - Rapid Ride Service
 - Other Frequent Transit Service
 - Regional Bus Access
 - Transit Center
 - Within 600' of a Stop on the Frequent Transit Network
 - TAZ without Frequent Transit Network Service
- Area Boundaries**
- Downtown Bellevue
 - Medical Institution District



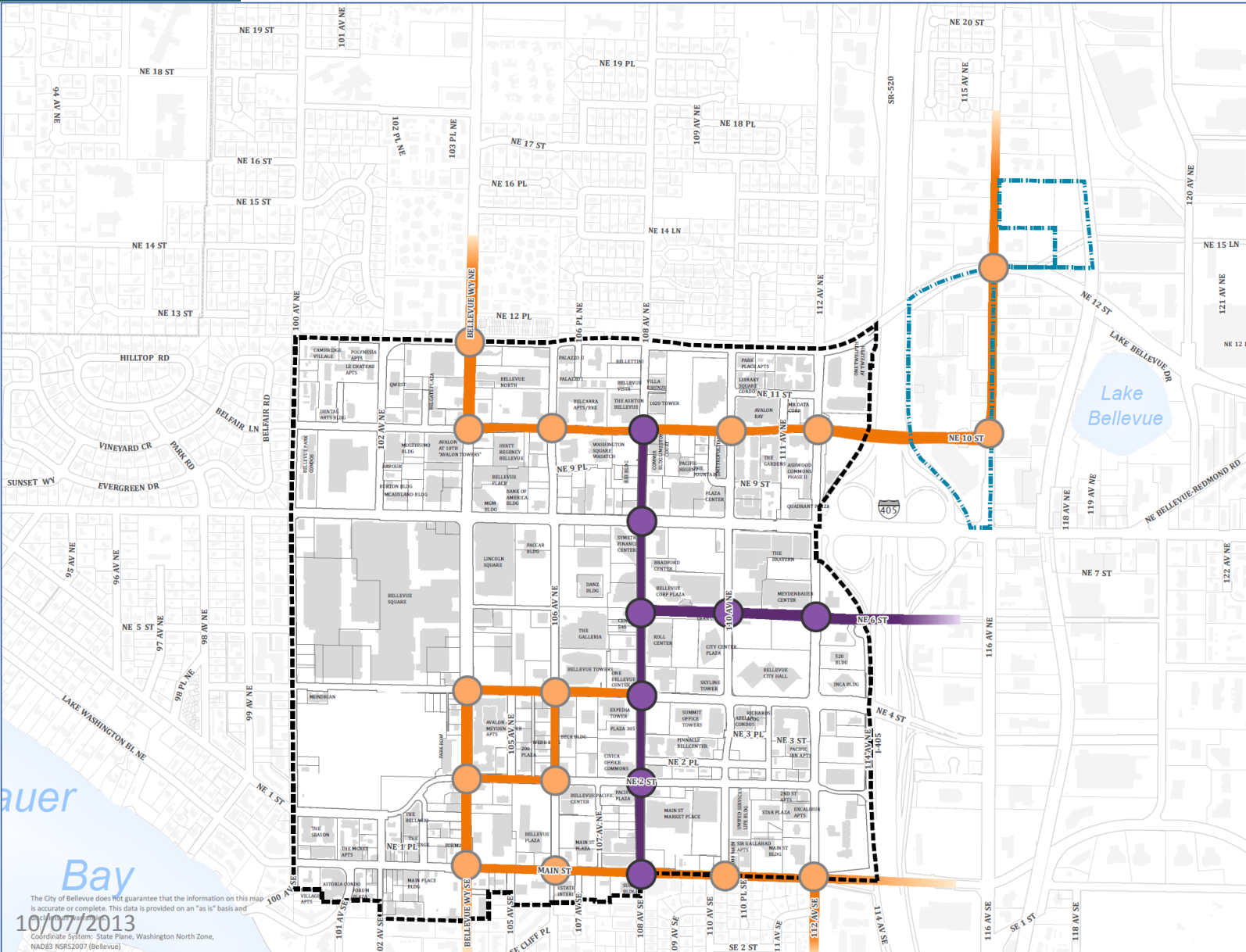
80,000
Feet

Sources:
City of Bellevue
Building Footprints:
Spring 2009



2030 Transit Priority Network

Consistent with adopted Transit Master Plan



2030 Transit Priority Network

Downtown Transportation Plan Update

Transit Priority Network

Corridors

- Priority I
- Priority II

Intersections

- Priority I
- Priority II

Area Boundaries

- Downtown Bellevue
- Medical Institution District



Sources:
City of Bellevue
Building Footprints
Spring 2003

Transit Passenger Comfort, Access and Information

- Provide context-appropriate components at transit stops

Transit Route Map



Real Time
Arrivals

Route	Destination	Minutes to Arrival
358E	AURORA VILLAGE VIA AURORA AVE N	-4
66E	NORTHGATE VIA EASTLAKE	2
16	NORTHGATE VIA WALLINGFORD	7
26	EAST GREEN LAKE VIA FREMONT	10
358E	AURORA VILLAGE VIA AURORA AVE N	11
522E	WOODINVILLE	17
358E	AURORA VILLAGE VIA AURORA AVE N	26
28	BROADVIEW VIA FREMONT	27
16	NORTHGATE VIA WALLINGFORD	27
66E	NORTHGATE VIA EASTLAKE	31

Orca Card
Vending Machine



Bike Station



Downtown Bicycle Mobility

Local Connections



Regional Connections



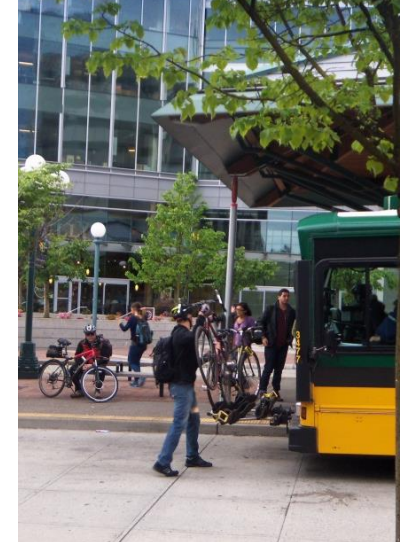
Getting Around Downtown



Parking

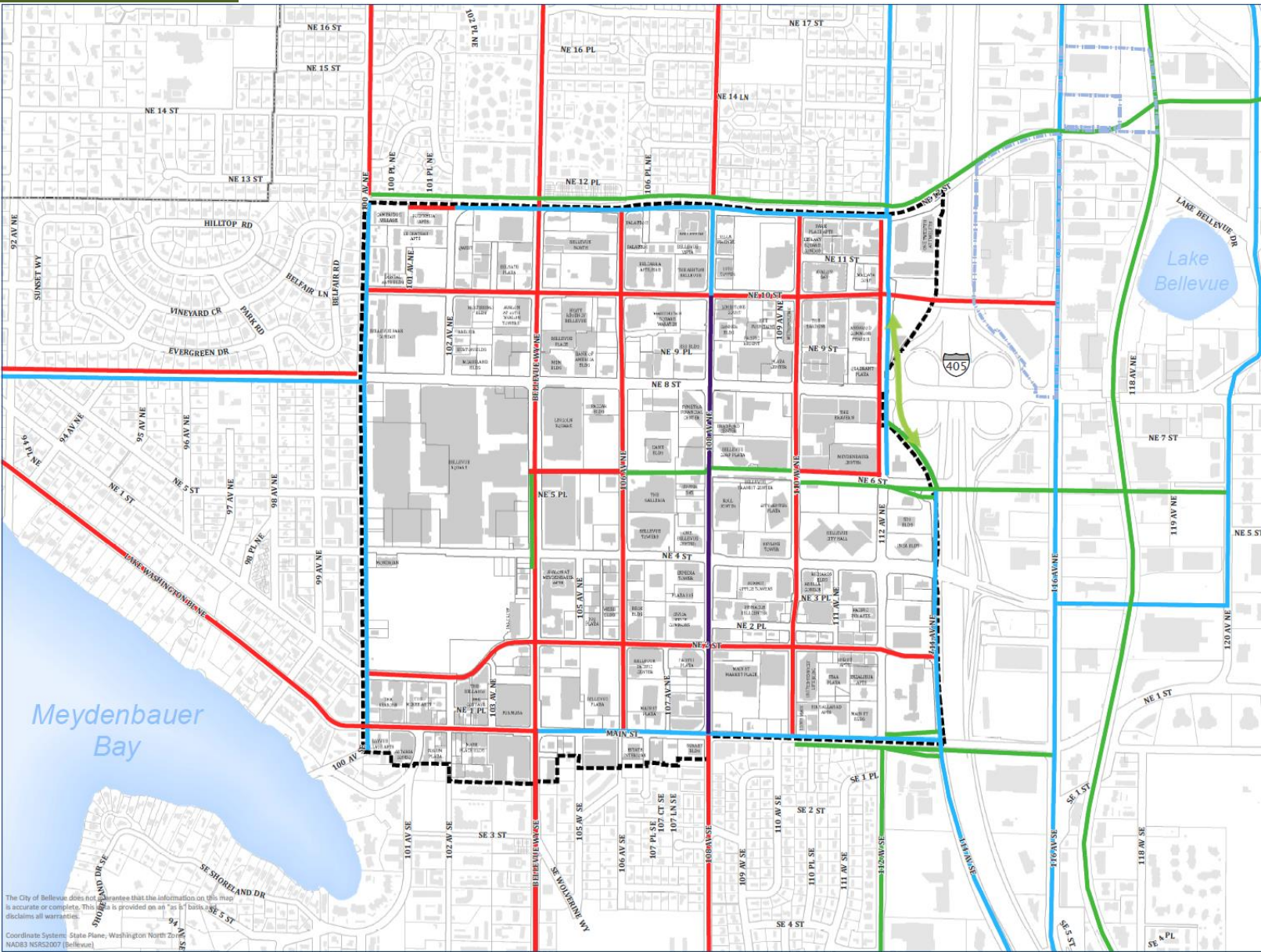


Commuting



Downtown Bicycle Facilities

On-Street Bicycle Facility Recommendation



City of Bellevue
Transportation Department

2030 Bicycle Facilities Network Downtown Area

Downtown Transportation Plan Update

- Bicycle Facilities**
- Shared Roadway
 - Bicycle Lane
 - Off-Street Path
 - Designated for Transit and Bicycle Priority
 - ↔ Grade Separated Off-Street Path

- Area Boundary**
- Downtown Bellevue
 - Medical Institution District
 - Building



1,300
Feet

Sources: City of Bellevue
Building Footprints, 2014

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Downtown Bicycle Facilities

Bicycle Parking Recommendations

Short-term Parking



Commuter Parking



Downtown Pedestrian Mobility

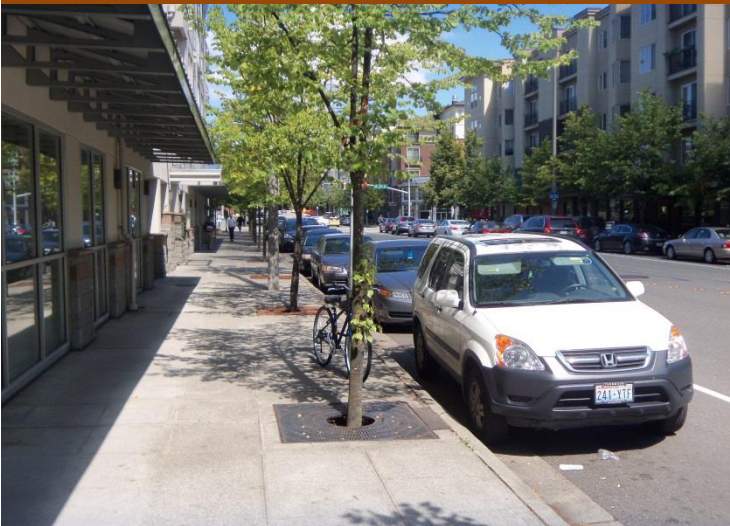
Crosswalks



Mid-Block Crossings



Sidewalks



Through-Block Connections



Downtown Bellevue Recommended Intersection Designations



Recommended Intersection Types

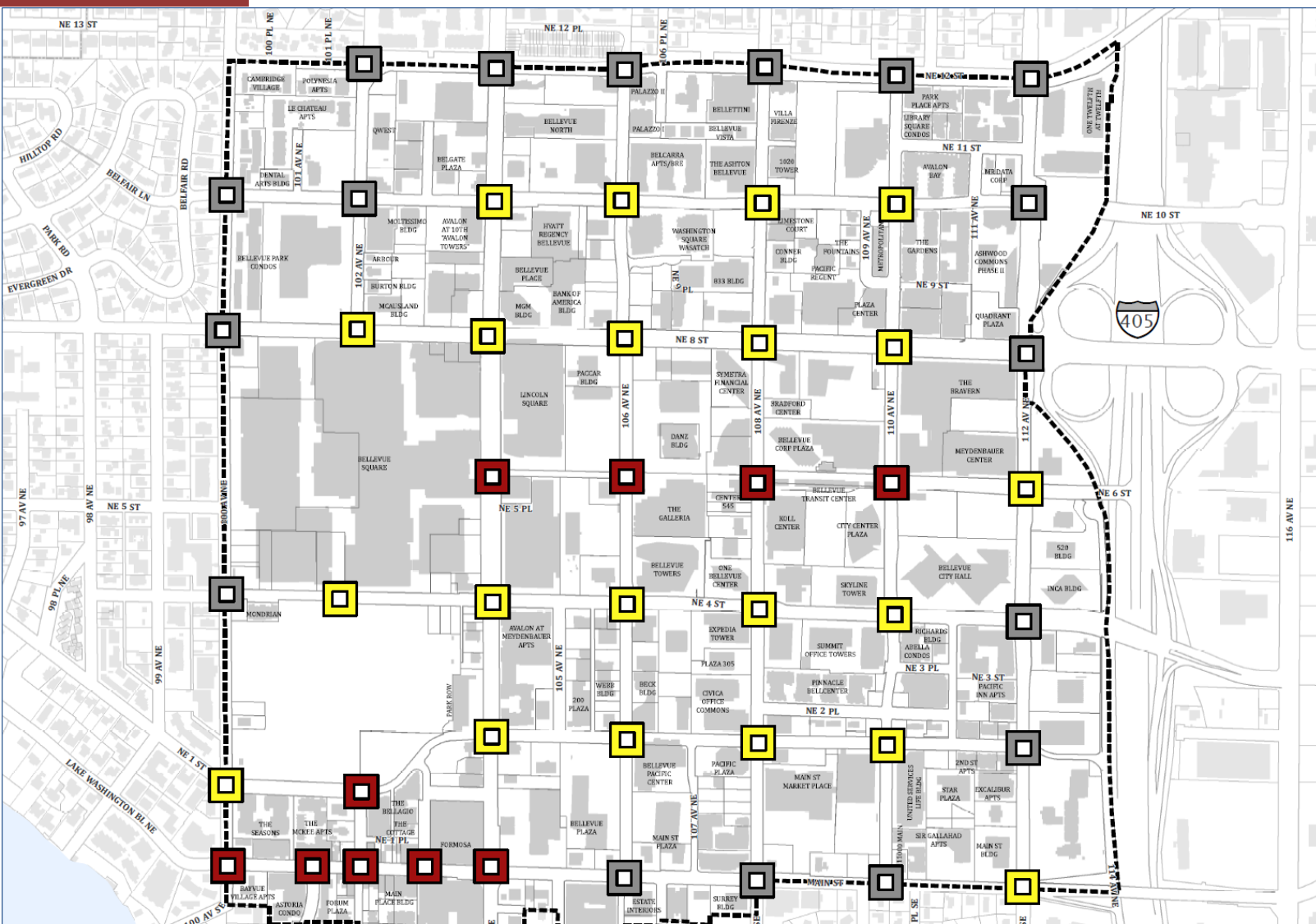
Downtown Transportation Plan Update

Intersection Type

- Standard
- Enhanced
- Exceptional

Area Boundary

- Downtown
- Building

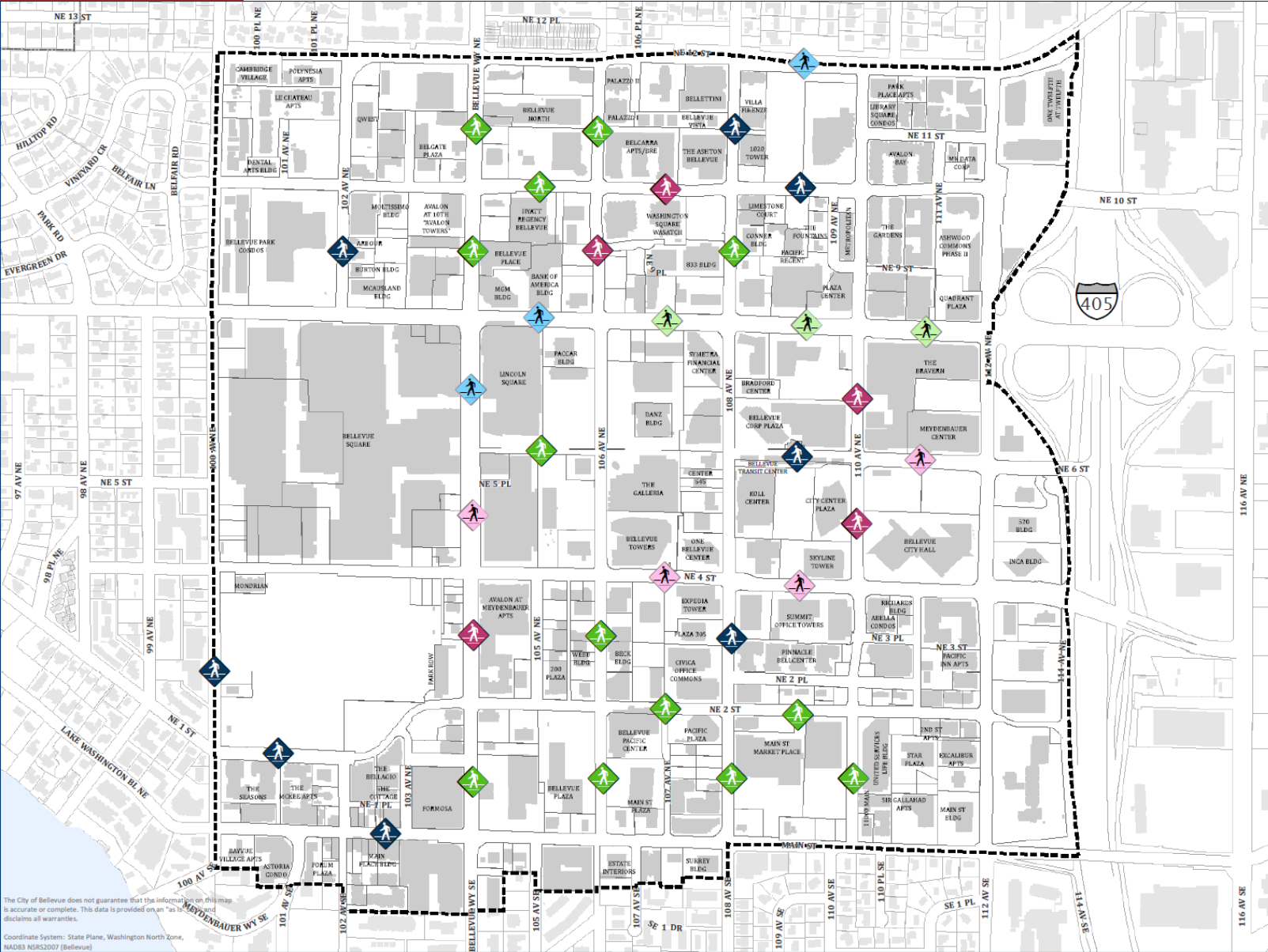


700
Feet

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Coordinate System: State Plane, Washington North Zone, NAD83 NRS22007 (Bellevue)

Downtown Mid-Block Crossings

Recommended Mid-Block Crossings



Mid-Block Crossings Existing in 2014

Downtown Transportation Plan Update

Mid-Block Crossing Status

Existing Crossing

At Grade

Grade Separated

Near-Term Priority

At Grade

Grade Separated

Potential Crossing

At Grade

Grade Separated

Area Boundary

Downtown Bellevue

Building



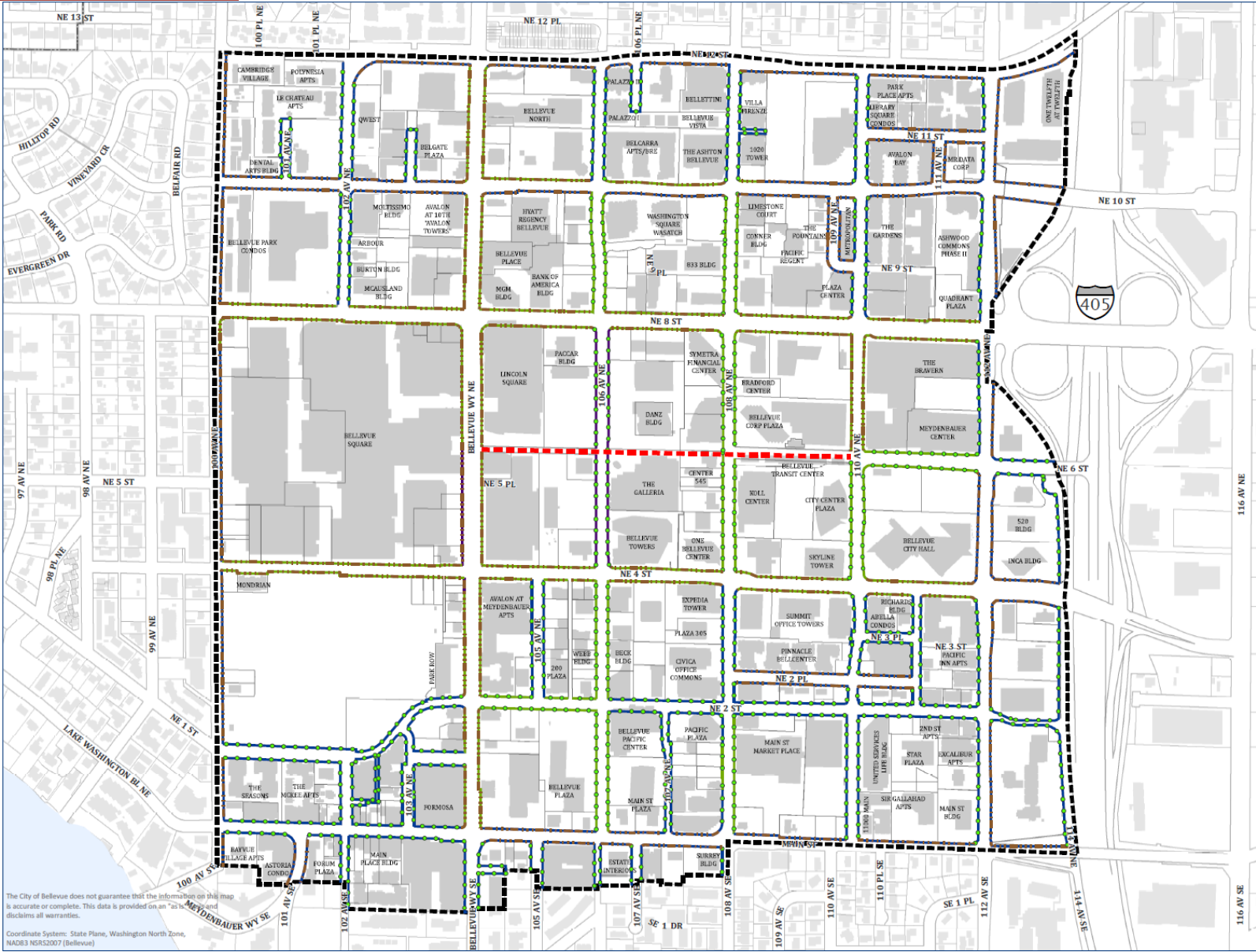
Sources: City of Bellevue Building Footprints; 2014

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Coordinate System: State Plane, Washington North Zone, NAD83 NSRS2007 (Bellevue)

Downtown Sidewalks and Landscaping

Recommended Sidewalk Width and Landscaping



Recommended Width and Landscaping

Downtown Transportation Plan Update

Downtown Sidewalks

- 12' Width
- 16' Width
- 20' Width
- Planter Strip with Street Trees
- Street Trees in Tree Grates
- - - - - Pedestrian Corridor

Area Boundary

- Downtown Bellevue
- Building

The sidewalk width includes a 4-foot-wide landscaping strip at the curb, with either a planter or street tree.

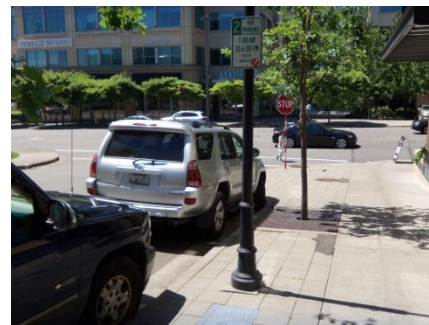


Sources: City of Bellevue Building Footprints; 2014

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Implementation Projects

- **2-year, \$800K CIP approved 2011**
- **7-year, \$5M CIP approved December 1, 2014**
 - Old Bellevue on-street parking (+25 spaces)
 - 112th Avenue NE northbound bike lane
 - 108th Avenue NE @ Main Street bike lane and median
 - 108th Avenue NE @ NE 4th Street intersection improvements
 - Pedestrian Corridor “Cattle Chute” interim retrofit
 - Electric Vehicle Charging Stations (2)
 - Access between Old Bellevue and Downtown Park



Implementation Policies

Downtown Subarea Plan

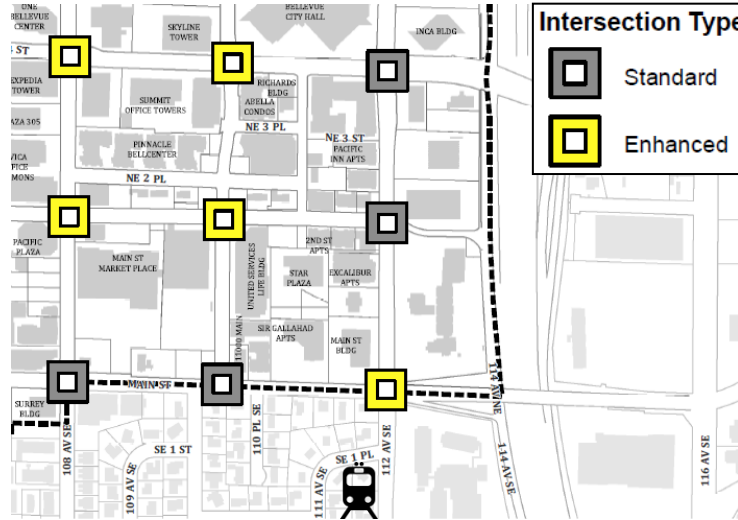
- **Downtown Mobility Goal:** To provide a transportation network with options for people to get around on foot, on bicycle, riding transit, or in a private vehicle.
- **Downtown Multimodal Mobility Policy**
 - Driving - invest in efficient use of roadways through intelligent transportation technology and strategic capacity additions
 - Walking – make walking easy, comfortable and safe
 - Bicycling – support commute and recreational trips
 - Transit Riding – provide passenger comfort, access and information, and advocate for transit service

Pedestrian
Mobility

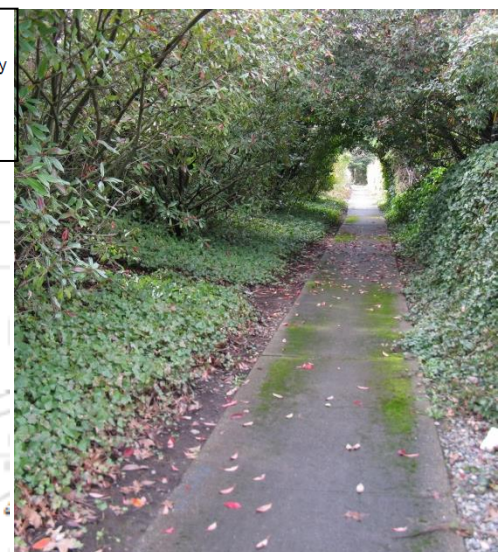
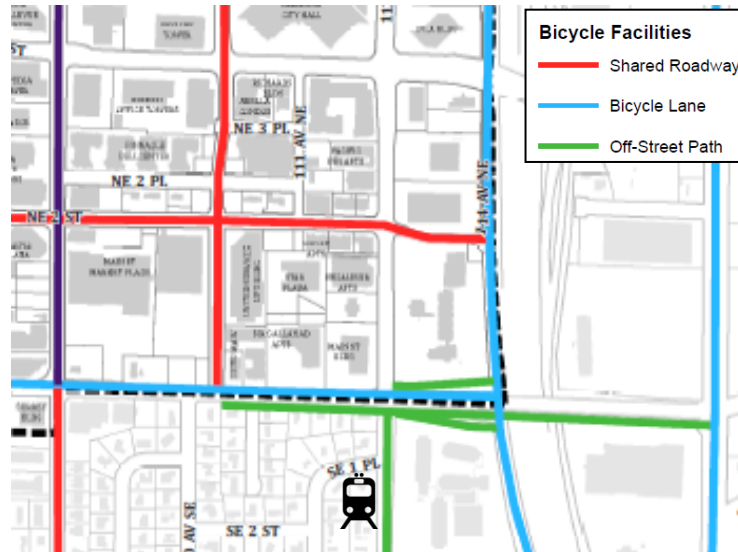
Bicyclist
Mobility

East Main Light Rail Station Access to/from Downtown

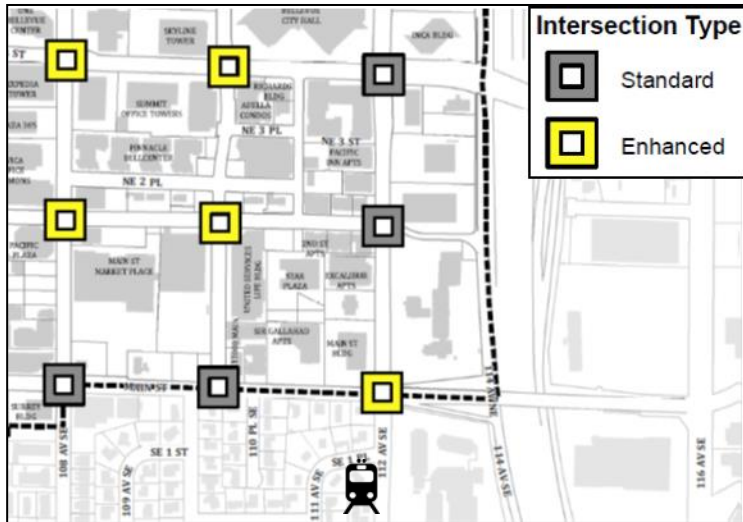
Pedestrian Access



Bicycle Access



Enhanced Intersection Components



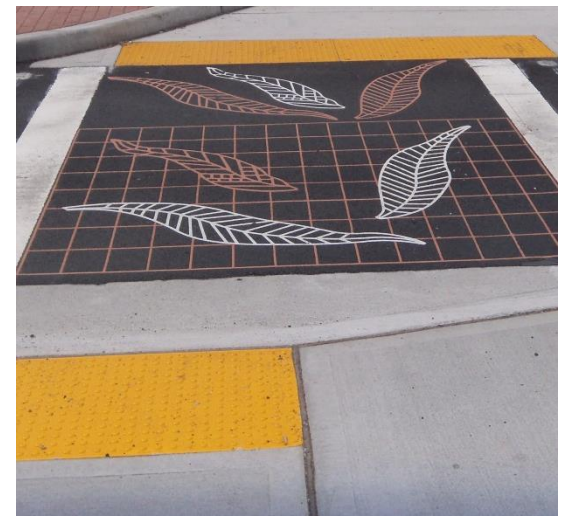
Wayfinding



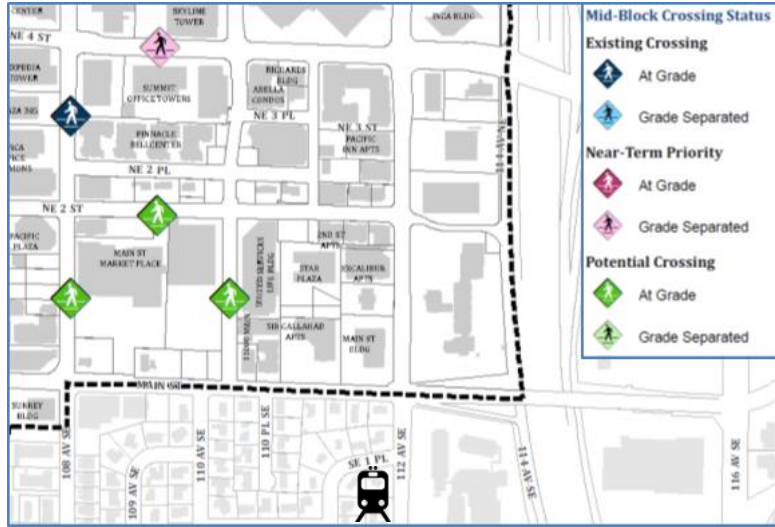
Weather protection



Special paving or striping, wide



Mid-Block Crossings



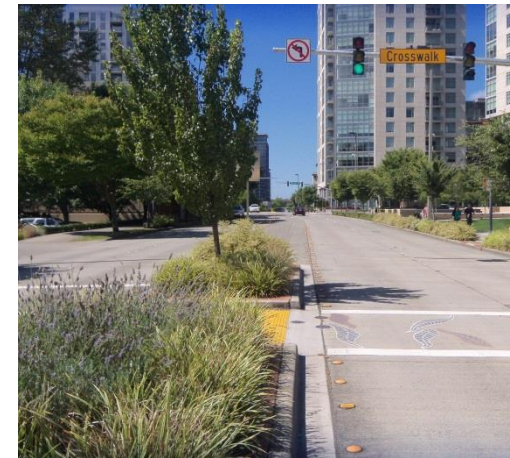
Crossing Pavement Treatment



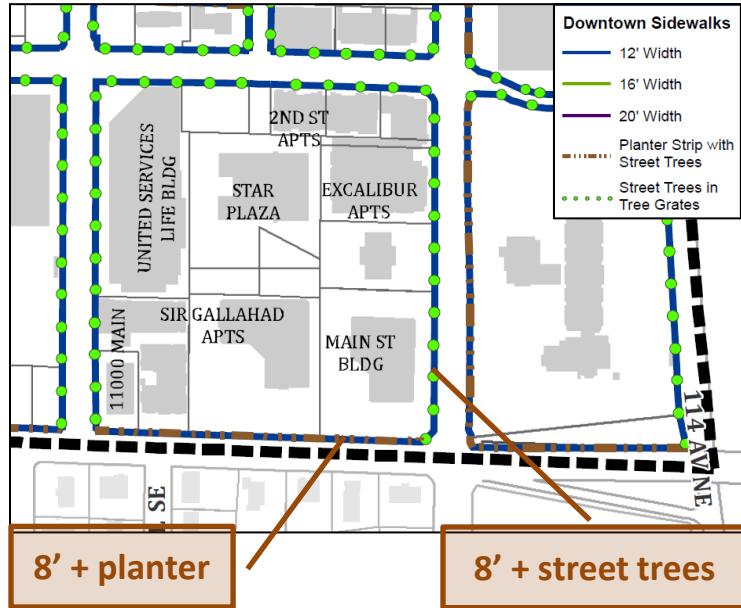
Signalization



Median/Pedestrian Refuge



Sidewalks



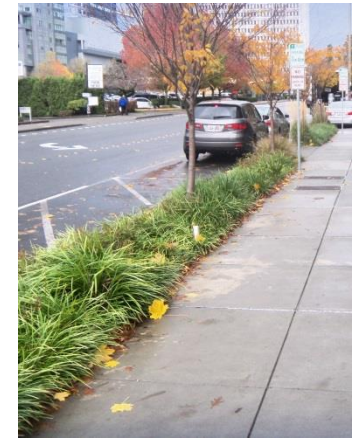
Sidewalk: 8-feet + 4

12-feet + 4

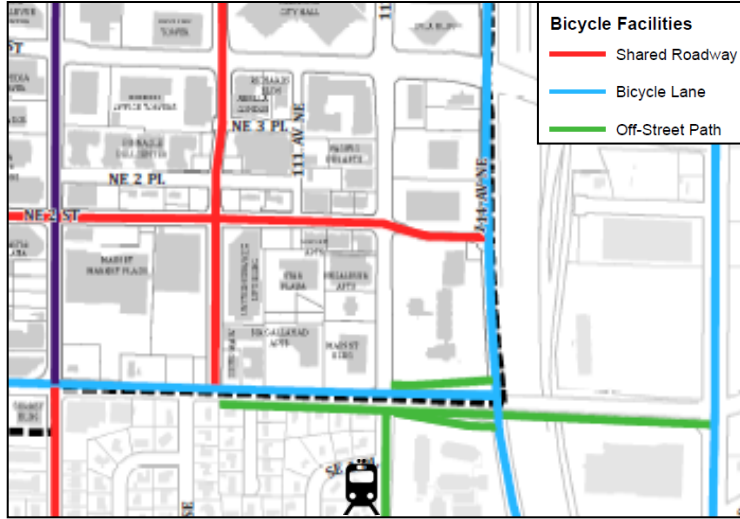


Curbside street trees

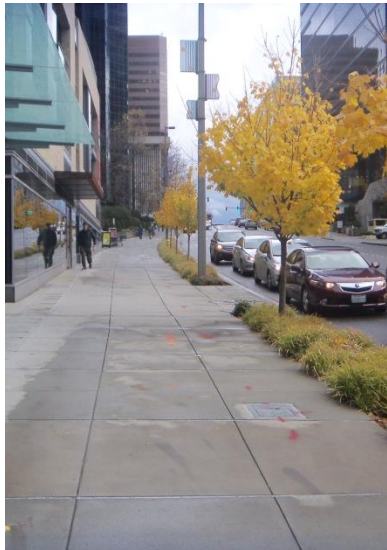
Curbside planter strip



Improved Bicycle Facilities



Path for Bikes and Peds



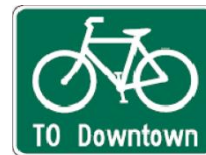
Wide Path on Main Street Bridge



Buffered Bike Lane



Bike Shared Lane





Downtown Transportation Plan Update

Thank You!

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425-452-4558

<http://www.bellevuewa.gov/downtown-transportation-plan-update.htm>