



City of Bellevue
Transportation Department
Modeling and Analysis Group

Concurrency Update Report
Performance Snapshot
December 31st, 2014



Prepared April 2015

Executive Summary

Model analysis indicates that, citywide, the 2015-2021 Capital Improvement Program (CIP) projects are able to accommodate the increased demand associated with new development approved through December 31, 2014. All Mobility Management Areas (MMAs) meet their congestion allowance (number of intersections over the standard). All MMAs are within the average volume-to-capacity (V/C) ratios allowed as well.

In the 2013 Concurrency Report, the Newcastle MMA (11) was found to be close to falling below the concurrency standard. In this update, the traffic condition for the MMA is improved, largely attributed to signalization improvement at the 164th Avenue SE and Lakemont Boulevard intersection.

Concurrency Summary by MMA

| MMA | Concurrency Standard | | 2014 Existing Condition | | | | 2015 Concurrency Platform | | | |
|--------------------|----------------------|----------------------|-------------------------|---------------|---|---------------|---------------------------|---------------|---|---------------|
| | V/C Ratio | Congestion Allowance | V/C Ratio Test | | Congestion Allowance Test | | V/C Ratio Test | | Congestion Allowance Test | |
| | | | V/C Ratio | Standard Met? | No of Intersections Exceeding the V/C Ratio | Standard Met? | V/C Ratio | Standard Met? | No of Intersections Exceeding the V/C Ratio | Standard Met? |
| 1 North Bellevue | 0.85 | 3 | 0.48 | Yes | 0 | Yes | 0.49 | Yes | 0 | Yes |
| 2 Bridle Trails | 0.80 | 4 | 0.65 | Yes | 1 | Yes | 0.63 | Yes | 1 | Yes |
| 3 Downtown | 0.95 | 9 | 0.65 | Yes | 1 | Yes | 0.72 | Yes | 1 | Yes |
| 4 Wilburton | 0.90 | 3 | 0.68 | Yes | 0 | Yes | 0.73 | Yes | 1 | Yes |
| 5 Crossroads | 0.90 | 2 | 0.62 | Yes | 0 | Yes | 0.63 | Yes | 0 | Yes |
| 6 N-E Bellevue | 0.80 | 2 | 0.63 | Yes | 0 | Yes | 0.64 | Yes | 0 | Yes |
| 7 South Bellevue | 0.85 | 4 | 0.65 | Yes | 0 | Yes | 0.65 | Yes | 0 | Yes |
| 8 Richards Valley | 0.85 | 5 | 0.61 | Yes | 0 | Yes | 0.63 | Yes | 0 | Yes |
| 9 East Bellevue | 0.85 | 5 | 0.74 | Yes | 2 | Yes | 0.77 | Yes | 2 | Yes |
| 10 Eastgate | 0.90 | 4 | 0.65 | Yes | 0 | Yes | 0.65 | Yes | 0 | Yes |
| 11 Newcastle | 0.80 | 3 | 0.74 | Yes | 0 | Yes | 0.66 | Yes | 0 | Yes |
| 12 Bel-Red/Northup | 0.95 | 7 | 0.67 | Yes | 0 | Yes | 0.70 | Yes | 0 | Yes |
| 13 Factoria | 0.95 | 5 | 0.80 | Yes | 1 | Yes | 0.81 | Yes | 1 | Yes |

Following the release of this Concurrency Update Report, the 2015 Concurrency Platform (2015 CP; model version MP6-R12) will be used as the background condition for project-level development review modeling until a new concurrency update is completed. The 2015 CP includes existing development plus the development approved through December 31, 2014 and the 2015-2021 CIP projects.

Introduction

The Washington State Growth Management Act (GMA) of 1990 requires that local jurisdictions adopt ordinances to establish *concurrency* measurement mechanisms to determine the ability of the transportation system to support new development. The City of Bellevue's adopted Traffic Standards Code (Bellevue City Code Chapter 14.10) establishes the City's transportation concurrency standards and methodologies, and compliance determination process. The Director's Rule of 2011 further defines the specifications of this procedure.

An assessment of transportation concurrency is prepared periodically by the Bellevue Transportation Department to update information on land use developments and transportation conditions within the City. The primary objective is to provide a snapshot of the latest transportation system performance findings to inform land use and transportation decision-making. In addition, the concurrency report is used to identify problem areas so that traffic mitigation options can be explored and identified to effectively accommodate changing conditions.

This report summarizes concurrency analysis results for two scenarios:

2014 Existing Condition represents the observed 2014 or latest traffic counts and existing roadway and intersection geometries.

2015 Concurrency Platform includes existing land use plus approved developments with the CIP in place. It forms the basis for conducting future project level concurrency analysis. The Platform includes:

- existing land use information extracted from the King County Tax Assessor's Office as of December 31, 2013;
- approved developments that had received either design review approvals or building permits issued by the City of Bellevue Development Services Department (DSD) as of December 31, 2014; and
- 2014 existing roadway network, plus fully funded capacity improvement projects in the 2015 – 2021 CIP as adopted by the Bellevue City Council.

The concurrency snapshot reflects short-range projections about average traffic conditions within the city during the two-hour PM peak period. The conditions described represent computed V/C ratios for designated "system" intersections within fourteen Mobility Management Areas (MMAs) as defined in the City's Traffic Standards Code. System intersections are arterial street intersections controlled by existing and possible future traffic signals. MMAs are geographic sub-areas of the City, designated for transportation concurrency analysis and reporting purposes.

Concurrency Standards

The city's concurrency standard consists of two metrics for each of the MMAs: the permitted maximum average system intersection V/C ratio and the maximum number of intersections allowed to exceed the V/C ratio defined for each MMA (congestion allowance.) The standards were defined to be consistent with the land use vision for the area, the availability and level of service of alternative modes of travel, and community input. Table 1 shows the concurrency standard for each MMA.

Table 1 Concurrency Standards for Mobility Management Areas

| MMA | | Concurrency Standard | |
|-----|--------------------|----------------------|----------------------|
| | | V/C Ratio | Congestion Allowance |
| 1 | North Bellevue | 0.85 | 3 |
| 2 | Bridle Trails | 0.80 | 4 |
| 3 | Downtown | 0.95 | 9 |
| 4 | Wilburton | 0.90 | 3 |
| 5 | Crossroads | 0.90 | 2 |
| 6 | Northeast Bellevue | 0.80 | 2 |
| 7 | South Bellevue | 0.85 | 4 |
| 8 | Richards Valley | 0.85 | 5 |
| 9 | East Bellevue | 0.85 | 5 |
| 10 | Eastgate | 0.90 | 4 |
| 11 | Newcastle | 0.80 | 3 |
| 12 | Bel-Red/Northup | 0.95 | 7 |
| 13 | Factoria | 0.95 | 5 |

Source: Bellevue City Code 14.10.030

Methodology

The concurrency methodology for the City of Bellevue consists of program level analysis and project level analysis. This report is a program level analysis. At the **program** level, all analysis is performed using the City's 6-year EMME travel demand model platform (MP6), including trip generation, where broad categorical trip rates are derived from the regional household travel surveys conducted by the Puget Sound Regional Council.

In contrast, a **project** level concurrency analysis involves a combined ITE (Institute of Transportation Engineers) and EMME approach. In this combined approach, trip generation for a specific proposed development is estimated based on the latest ITE Trip Generation Manual; trip generation for the existing land use plus approved development is estimated based on the EMME model, as described above. The 2014 existing condition was analyzed using existing

traffic counts and roadway geometries. Figure 1 illustrates the concurrency analysis process for the 2015 CP.

The intersection operation analysis is based on the Highway Capacity Manual (HCM) 2009. The manual provides procedures to analyze intersection-specific geometric, traffic, and signal conditions for a performance rating defined as level of service (LOS). Assumptions include:

- For intersection capacity analysis, peak hour traffic volumes are averaged over a two-hour period from 4 PM to 6 PM, which generally represents the most congested traffic conditions.
- Uniform traffic demand over the two-hour period, as represented by a peak hour factor (PHF) of 1.
- V/C ratios are calculated at each individual system intersection. The weighted average V/C ratio for all system intersections within each MMA is then calculated and compared with the adopted standard for the respective MMA.
- Development is considered concurrent if the resulting traffic impacts do not cause the area-wide average to exceed the adopted V/C ratio and the number of congested intersections in the area does not exceed the congestion allowance as established in the Traffic Standards Code.

MMA Boundaries

For concurrency analysis and reporting purposes, the city is divided into 14 MMAs. The MMA boundaries have evolved slightly over time to include newly annexed lands and to better align with existing land use characteristics and anticipated future development patterns. The current MMA boundaries are shown in Figure 2. There were no changes to MMA boundaries from the last concurrency report released in 2013.

Figure 1 Concurrency Analysis Process

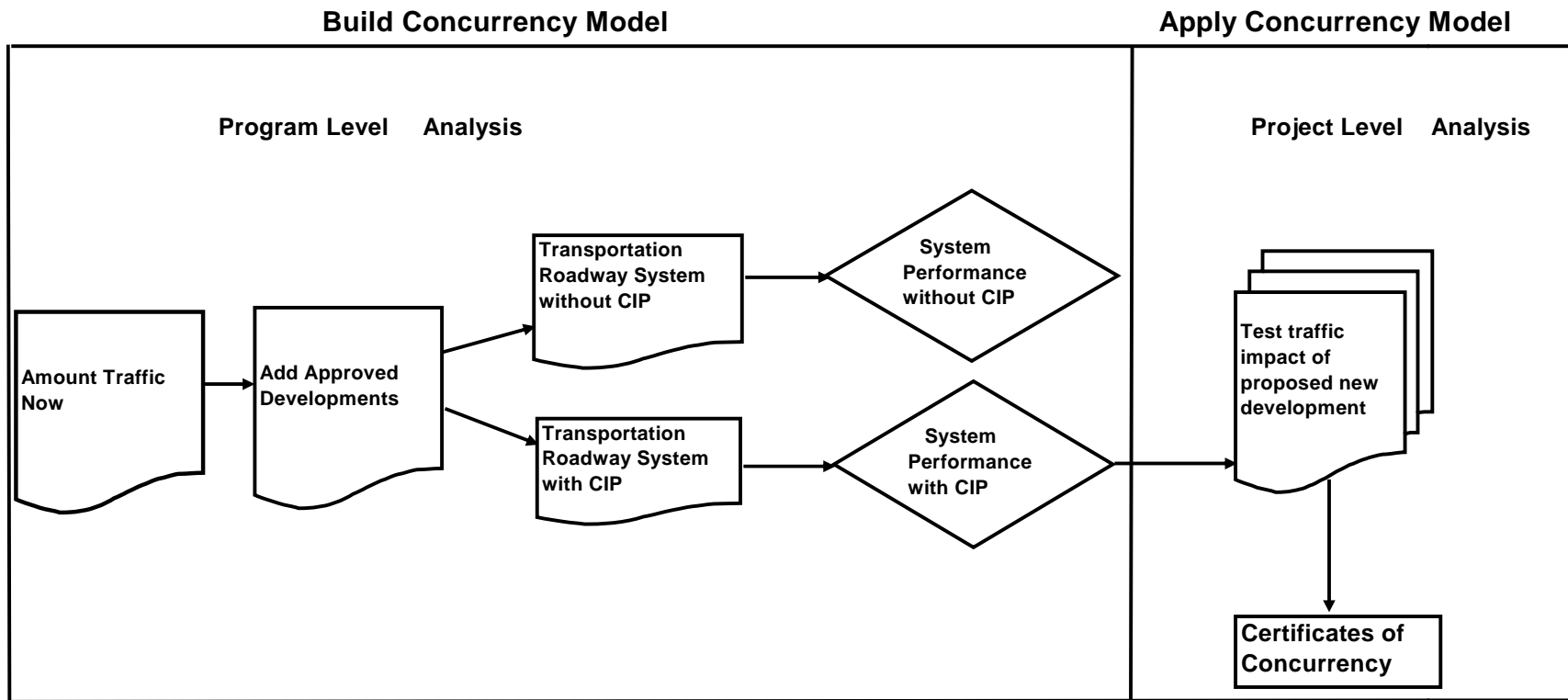
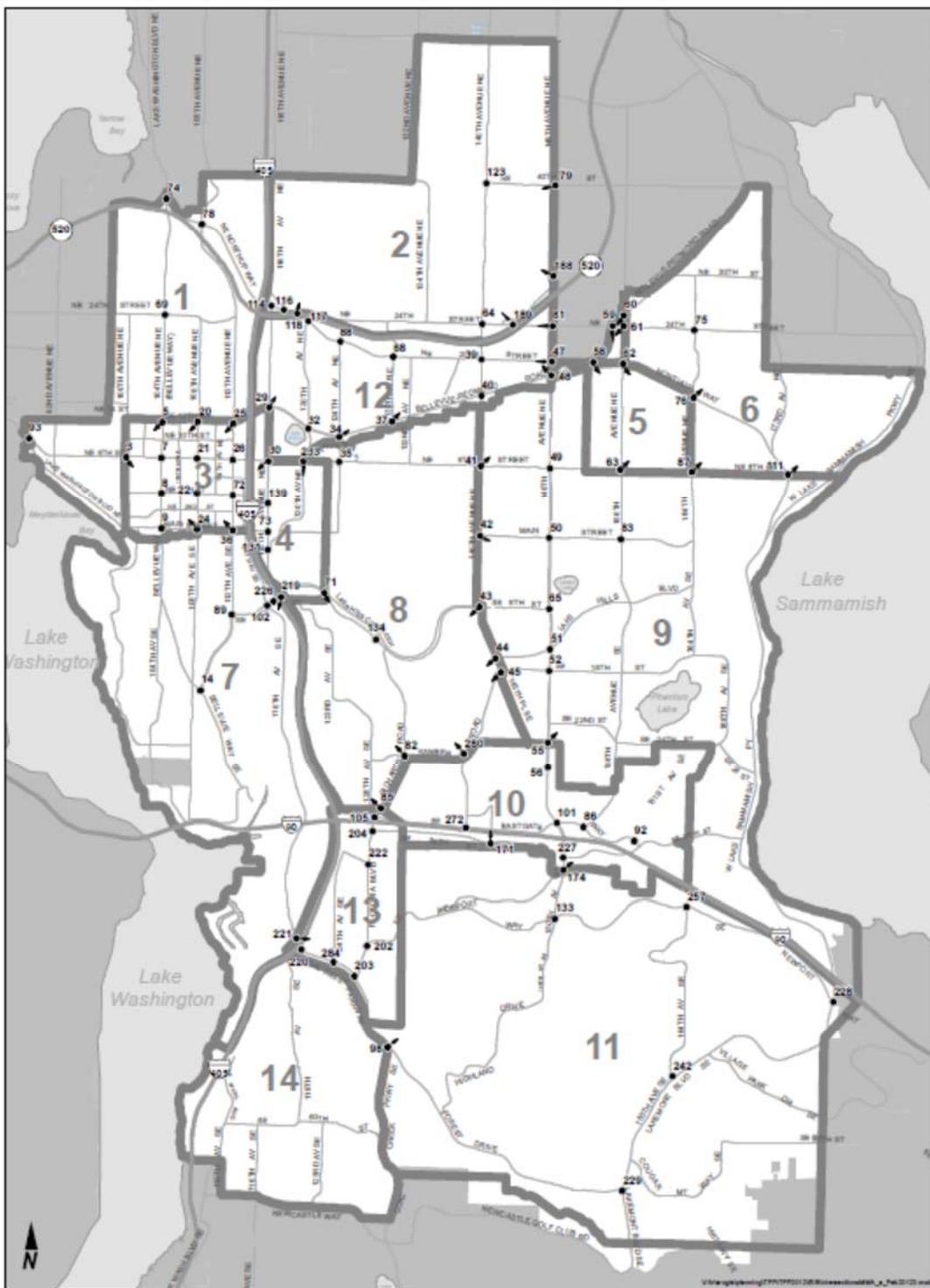


Figure 2 Mobility Management Areas (MMA) and System Intersections



Source: Bellevue City Code 14.10.030

Input Data

Land Use

The land use data includes existing plus new development approved by the City of Bellevue through the end of 2014. The existing land use information was extracted from the King County Tax Assessor's file as of December 31, 2013. Table 2 provides an MMA-level summary of the existing 2013 land use. The land use permit tracking system (AMANDA) is the source of new development approved by the City. Permitted development represents the new increment of land use for concurrency testing. Table 3 lists major developments approved as of the end of 2014. Since not all development occurred on formerly vacant land, the land use information accounted for demolition and conversions of land use and represents the net change. Table 4 provides aggregation of approved developments by MMA. It includes more than two million gross square feet (GSF) of Office, nearly 600,000 GSF of Retail, and 620,000 GSF of Other (institutional, industrial and hotel) spaces. In addition, 2,454 new multifamily dwelling units and 49 new single family homes are also included. Table 5 contains existing plus approved land use totals by category for the 14 MMAs.

Vacancy rates are assumed citywide for modeling of existing and concurrency land use snapshots: Office = 10%, Retail = 5%, and Industrial = 7.5%. Actual vacancy rates may differ but the assumed rates are consistent with observed vacancy rates over time.

Table 2 Existing Land Use Summary

| MMA | Subarea | Commercial (sqft) | | | Dwelling Units | |
|-------|--------------------|-------------------|------------|------------|----------------|--------|
| | | Office | Retail | Others | MF | SF |
| 1 | North Bellevue | 1,449,577 | 185,759 | 402,086 | 2,176 | 2,175 |
| 2 | 116th Ave NE | 697,636 | 405,611 | 535,007 | 3,252 | 1,680 |
| 3 | Downtown Bellevue | 9,061,810 | 3,862,690 | 2,011,701 | 7,484 | - |
| 4 | Wilburton | 1,271,252 | 658,289 | 929,540 | 577 | 76 |
| 5 | Crossroads | 153,921 | 678,347 | 224,045 | 3,374 | 51 |
| 6 | Northeast Bellevue | 426,995 | 12,816 | 469,632 | 255 | 3,311 |
| 7 | South Bellevue | 1,172,285 | 261,203 | 1,274,173 | 2,025 | 2,720 |
| 8 | Richards Valley | 211,470 | 76,782 | 284,729 | 3,517 | 2,479 |
| 9 | East Bellevue | 523,961 | 386,287 | 1,168,079 | 2,410 | 6,685 |
| 10 | Eastgate | 4,006,435 | 471,351 | 1,874,720 | 654 | 315 |
| 11 | Newcastle | 143,461 | 130,558 | 888,473 | 1,017 | 8,214 |
| 12 | Bel-Red/Northup | 2,579,595 | 2,236,080 | 3,421,834 | 112 | 1 |
| 13 | Factoria | 1,467,427 | 860,224 | 434,742 | 1,150 | 335 |
| 14 | Newport Hills | 13,464 | 94,510 | 167,315 | 472 | 2,636 |
| Total | | 23,179,289 | 10,320,507 | 14,086,076 | 28,475 | 30,678 |

Source: King County Tax Assessor's Office as of December, 2013

Table 3 Approved Developments as of December 31, 2014

| Development Name | MMA | Office (sqft) | Retail (sqft) | Others (sqft) | MF (units) |
|---|------------|----------------------|----------------------|----------------------|-------------------|
| Bellevue Boys and Girls Club | 1 | | | 26,281 | |
| Hidden Valley Sports Park Fieldhouse | 1 | | | 21,832 | |
| COBP - Bellevue Golf Course | 2 | | | 9,025 | |
| Alamo Manhattan Main Street | 3 | | 7,078 | | 260 |
| Alley 111 Apartments | 3 | | 5,500 | | 260 |
| 103rd Ave Apartments | 3 | | | | 175 |
| Bellevue Apartments | 3 | | | | 57 |
| Bellevue At Main Street | 3 | | 40,220 | | 256 |
| Bellevue Park Apartments | 3 | | 9,903 | | 160 |
| Hotel AC Bellevue | 3 | | (8,500) | 110,000 | |
| Lincoln Square Expansion | 3 | 691,596 | 392,000 | 150,000 | 231 |
| Main Street Gateway | 3 | | 25,163 | | 350 |
| Marriott Hotel Tower | 3 | | | 269,018 | |
| Nine Two Nine Tower | 3 | 452,000 | 5,000 | | |
| QFC | 3 | | 65,207 | | |
| Soma Towers Phase 2 | 3 | 8,749 | 8,181 | | 127 |
| Summit III | 3 | 342,930 | | | |
| Chick-Fil-A | 4 | | 2,862 | | |
| Milano Townhomes | 4 | | | | 11 |
| Bel Red Office (LUX) | 5 | 19,888 | | | |
| COBP - Bellevue Youth Theatre | 5 | | | 13,448 | |
| The Madison Bellevue | 5 | | | | 106 |
| Townvue Townhomes | 7 | | | | 23 |
| Tulum Downs | 7 | | | | 39 |
| Chen Commercial Office Building | 9 | 5,784 | | | |
| Lake Hills Mixed Use Development | 9 | 11,727 | 22,353 | | 18 |
| Odle Middle School | 9 | | | 156,415 | |
| Bellevue College Health Science Bldg | 10 | 70,513 | | | |
| Factoria Recycling and Transfer Station | 10 | | | 79,752 | |
| GRE Bellevue | 12 | | | | 381 |
| The Spring District | 12 | 485,133 | 18,761 | (355,829) | |
| Walgreens | 12 | | 3,800 | | |
| Wintz Co - Self Storage Solutions | 12 | | | 139,709 | |
| Total | | 2,088,320 | 597,528 | 619,651 | 2,454 |

Source: City of Bellevue Development Services Department

Table 4 Approved Developments Aggregated by MMA (As of December 31, 2014)

| MMA | Subarea | Office (sqft) | Retail (sqft) | Others (sqft) | MF (units) | SF (units) |
|-------|--------------------|---------------|---------------|---------------|------------|------------|
| 1 | North Bellevue | - | - | 48,113 | - | 4 |
| 2 | Bridle Trails | - | - | 9,025 | - | 1 |
| 3 | Downtown Bellevue | 1,495,275 | 549,752 | 529,018 | 1,876 | (1) |
| 4 | Wilburton | - | 2,862 | - | 11 | - |
| 5 | Crossroads | 19,888 | - | 13,448 | 106 | - |
| 6 | Northeast Bellevue | - | - | - | - | 1 |
| 7 | South Bellevue | - | - | - | 62 | 4 |
| 8 | Richards Valley | - | - | - | - | - |
| 9 | East Bellevue | 17,511 | 22,353 | 156,415 | 18 | 9 |
| 10 | Eastgate | 70,513 | - | 79,752 | - | 1 |
| 11 | Newcastle | - | - | - | - | 23 |
| 12 | Bel-Red/Northup | 485,133 | 22,561 | (216,120) | 381 | - |
| 13 | Factoria | - | - | - | - | 1 |
| 14 | Newport Hills | - | - | - | - | 6 |
| Total | | 2,088,320 | 597,528 | 619,651 | 2,454 | 49 |

Source: City of Bellevue Development Services Department

Table 5 Land Use Assumed for 2015 Concurrency Platform

| MMA | Subarea | Office (sqft) | Retail (sqft) | Others (sqft) | MF (units) | SF (units) |
|-------|--------------------|---------------|---------------|---------------|------------|------------|
| 1 | North Bellevue | 1,449,577 | 185,759 | 450,199 | 2,176 | 2,179 |
| 2 | Bridle Trails | 697,636.0 | 405,611 | 544,032 | 3,252 | 1,681 |
| 3 | Downtown Bellevue | 10,557,085 | 4,412,442 | 2,540,719 | 9,360 | (1) |
| 4 | Wilburton | 1,271,252.0 | 661,151 | 929,540 | 588 | 76 |
| 5 | Crossroads | 173,809 | 678,347 | 237,493 | 3,480 | 51 |
| 6 | Northeast Bellevue | 426,995.0 | 12,816 | 469,632 | 255 | 3,312 |
| 7 | South Bellevue | 1,172,285.0 | 261,203 | 1,274,173 | 2,087 | 2,724 |
| 8 | Richards Valley | 211,470.0 | 76,782 | 284,729 | 3,517 | 2,479 |
| 9 | East Bellevue | 541,472 | 408,640 | 1,324,494 | 2,428 | 6,694 |
| 10 | Eastgate | 4,076,948 | 471,351 | 1,954,472 | 654 | 316 |
| 11 | Newcastle | 143,461.0 | 130,558 | 888,473 | 1,017 | 8,237 |
| 12 | Bel-Red/Northup | 3,064,728 | 2,258,641 | 3,205,714 | 493 | 1 |
| 13 | Factoria | 1,467,427.0 | 860,224 | 434,742 | 1,150 | 336 |
| 14 | Newport Hills | 13,464.0 | 94,510 | 167,315 | 472 | 2,642 |
| Total | | 25,267,609 | 10,918,035 | 14,705,727 | 30,929 | 30,727 |

Source: King County Tax Assessor's Office & City of Bellevue Development Services Department

Transportation Network

The adopted 2015-2021 CIP is assumed in this analysis. The concurrency model network includes all fully funded projects that would add capacity to roadways and intersections. These capacity projects include roadway widening, intersection signalization and channelization, and access improvements. The 2015-2021 CIP capacity project locations are shown in Figure 3. Major capacity projects are described in Table 6.

Traffic Counts

The latest PM peak two-hour average counts were used along with the 2014 existing intersection geometry and signal timing plans to calculate intersection V/C ratios for the 2014 existing condition. These counts were also used to adjust the outputs from the 2015 Base Model Platform (MP6-R12) to account for model validation differences.

Figure 3 CIP Projects (2015 - 2021)

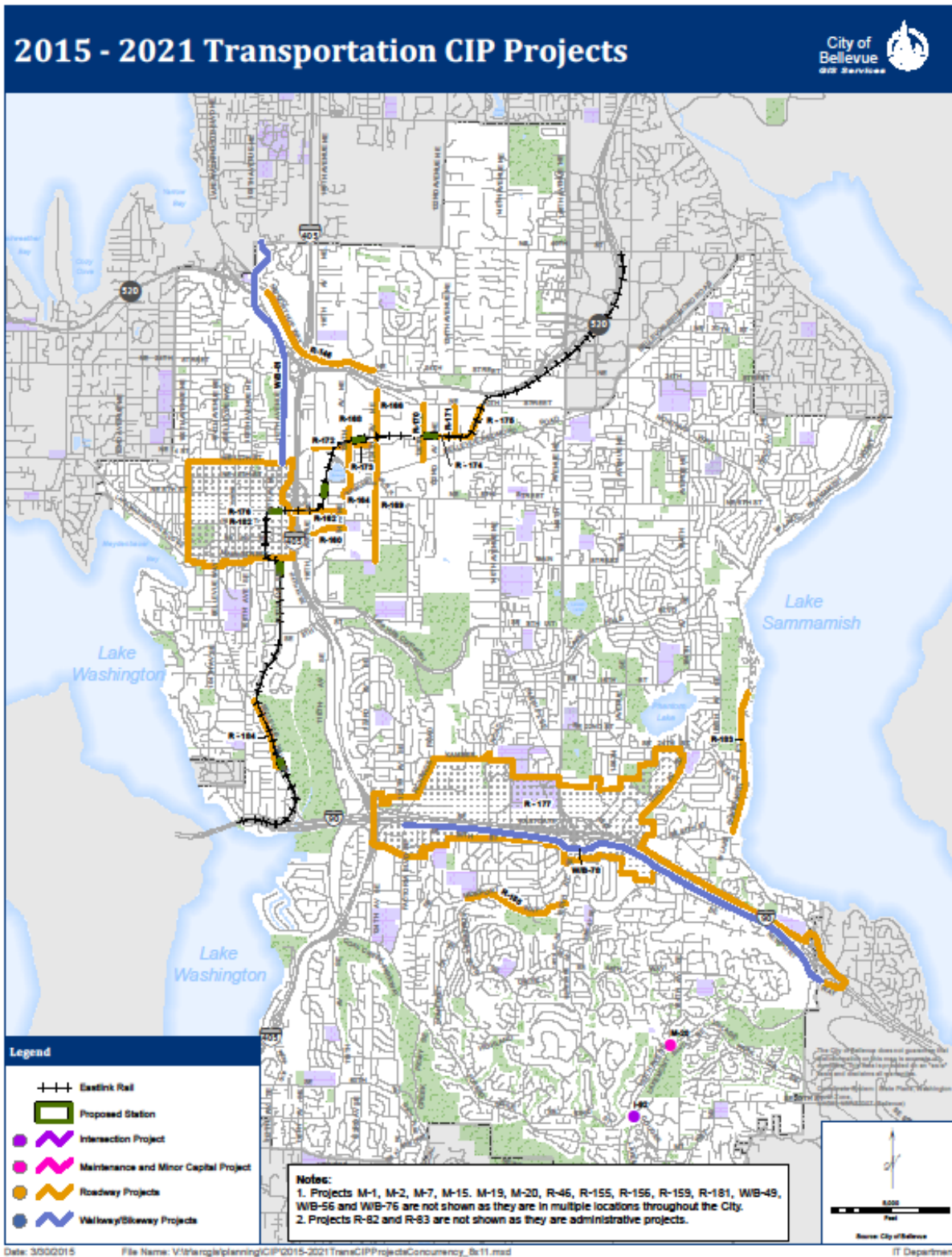


Table 6 CIP Capacity Projects (2015 - 2021)

| CIP | Project Name | Description |
|----------|---|--|
| PW-I-92 | Lakemont Boulevard/Cougar Mountain Way | This project will install a traffic signal with added left turn pockets on Lakemont Boulevard. |
| PW-M-20 | Lakemont Boulevard/164 th Avenue SE | This is a Minor Capital program project – Signals & Lighting. It will install a traffic signal at this system intersection. |
| PW-R-160 | NE 4th Street Extension | This project will construct a new five lane arterial, with two travel lanes in each direction and a center turn lane between 116th Avenue NE and 120th Avenue NE. The project will include a new signalized intersection at NE 4th Street/120th Avenue NE and will modify the existing signalized intersection at NE 4th Street/116th Avenue NE. |
| PW-R-164 | 120th Avenue NE Improvements (Stage 2) - NE 8th Street to NE 12th Street | This project will extend, realign and widen 120th Avenue NE from south of NE 8th Street to NE 12th Street to five lanes, including two travel lanes in each direction with turn pockets or a center turn lane. It also includes intersection improvements at NE 8th Street and intersection improvements and a new signal at Old Bel-Red Road. |
| PW-R-166 | 124th Avenue NE - NE Spring Boulevard to NE 18 th Street | This project will widen 124th Avenue NE from NE Spring Boulevard to NE 18 th Street. The roadway cross-section will consist of five lanes, including two travel lanes in each direction with turn pockets or a center turn lane. The project will install a new traffic signal at NE 16 th Street. |
| PW-R-168 | 120th Avenue NE Improvements (Stage 3) - NE 12th Street to NE 16 th Street | This project will extend the 120th Avenue NE widening from NE 12th Street to NE 16 th Street. The roadway cross-section will consist of five lanes, including two travel lanes in each direction with turn pockets or a center turn lane. This stage of the project includes all intersection improvements at NE 12 th Street. |
| PW-R-172 | NE Spring Boulevard – 116 th Avenue NE to 120 th Avenue NE | This project will construct a new multi-modal arterial street connection between NE 12 th Street/116 th Avenue NE and 120 th Avenue NE. NE 12 th Street will be widened between 116 th Avenue NE and a new intersection with Spring Boulevard, to west of the Eastside Rail Corridor. The Spring Boulevard cross-section, between NE 12 th Street and 120 th Avenue NE, will include two travel lanes in each direction with turn pockets. The project will include modifications to the NE 12 th Street/116 th Avenue NE intersection and new signalized intersections at NE 12 th Street/NE Spring Boulevard and Spring Boulevard/120 th Avenue NE. |
| PW-R-174 | NE Spring Boulevard – 130 th Avenue NE to 132 nd Avenue NE | This project will construct a new single lane westbound arterial street connection between 130 th and 132 nd Avenues NE. The project will install new traffic signals at both 130 th and 132 nd Avenues NE that will integrate vehicle, pedestrian, bicycle movements with the East Link light rail transit crossings at these intersections. |

Concurrency Analysis Findings

The V/C ratios for the two scenarios are compared to the city's concurrency standard as depicted in Table 7.

Table 7 Concurrency Analysis Results by MMA

| MMA | Concurrency Standard | | 2014 Existing Condition | | | | 2015 Concurrency Platform | | | |
|--------------------|----------------------|----------------------|-------------------------|--------------------------------|---|--------------------------------|---------------------------|--------------------------------|---|--------------------------------|
| | V/C Ratio | Congestion Allowance | V/C Ratio | Remaining Capacity (V/C Ratio) | No of Intersections Exceeding the V/C Ratio | Remaining Congestion Allowance | V/C Ratio | Remaining Capacity (V/C Ratio) | No of Intersections Exceeding the V/C Ratio | Remaining Congestion Allowance |
| 1 North Bellevue | 0.85 | 3 | 0.48 | 0.37 | 0 | 3 | 0.49 | 0.36 | 0 | 3 |
| 2 Bridle Trails | 0.80 | 4 | 0.65 | 0.15 | 1 | 3 | 0.63 | 0.17 | 1 | 3 |
| 3 Downtown | 0.95 | 9 | 0.65 | 0.31 | 1 | 8 | 0.72 | 0.23 | 1 | 8 |
| 4 Wilburton | 0.90 | 3 | 0.68 | 0.22 | 0 | 3 | 0.73 | 0.17 | 1 | 2 |
| 5 Crossroads | 0.90 | 2 | 0.62 | 0.28 | 0 | 2 | 0.63 | 0.27 | 0 | 2 |
| 6 N-E Bellevue | 0.80 | 2 | 0.63 | 0.17 | 0 | 2 | 0.64 | 0.16 | 0 | 2 |
| 7 South Bellevue | 0.85 | 4 | 0.65 | 0.20 | 0 | 4 | 0.65 | 0.20 | 0 | 4 |
| 8 Richards Valley | 0.85 | 5 | 0.61 | 0.24 | 0 | 5 | 0.63 | 0.22 | 0 | 5 |
| 9 East Bellevue | 0.85 | 5 | 0.74 | 0.11 | 2 | 3 | 0.77 | 0.08 | 2 | 3 |
| 10 Eastgate | 0.90 | 4 | 0.65 | 0.25 | 0 | 4 | 0.65 | 0.25 | 0 | 4 |
| 11 Newcastle | 0.80 | 3 | 0.74 | 0.06 | 0 | 3 | 0.66 | 0.14 | 0 | 3 |
| 12 Bel-Red/Northup | 0.95 | 7 | 0.67 | 0.28 | 0 | 7 | 0.70 | 0.25 | 0 | 7 |
| 13 Factoria | 0.95 | 5 | 0.80 | 0.15 | 1 | 4 | 0.81 | 0.14 | 1 | 4 |

Average V/C Ratios Analysis by MMA

Under 2014 existing condition, all MMAs meet their associated V/C ratio standards. The V/C ratios for individual MMAs ranged from 0.48 (MMA 1 - North Bellevue) to 0.80 (MMA 13 - Factoria). The remaining capacity (the difference between calculated V/C ratio and V/C ratio standard) ranges from 0.06 (MMA 11 - Newcastle) to 0.37 (MMA 1 - North Bellevue). Remaining capacity is an indicator of how close an MMA is to exceeding the V/C ratio threshold. It is the capacity available for accommodating future development before an MMA fails the concurrency standard.

Under the 2015 Concurrency Platform with the CIP completed and approved development in place, all MMAs meet their respective V/C ratio standards. The V/C ratios for individual MMAs range from 0.49 (MMA 1 - North Bellevue) to 0.81 (MMA 13 - Factoria). The remaining capacity ranges from 0.08 (MMA 12 - East Bellevue) to 0.36 (MMA 1 - North Bellevue). In the 2013 Concurrency Report, the Newcastle MMA was on the verge of failing concurrency. The signalization improvement at the 164th Avenue SE and Lakemont Boulevard intersection improves the MMA's V/C ratio significantly.

Intersection Congestion Allowance Analysis by MMA

Under 2014 existing conditions, the number of intersections failing the MMA V/C standard is six. This is lower than the 56 maximum number of failing intersections allowed (congestion allowance) for all MMAs.

- East Bellevue (MMA 12) has two intersections operating below the standard.
- Bridle Trails (MMA 2), Downtown (MMA 3), and Factoria (MMA 13) each has one intersection operating below the respective V/C ratio standard.
- All system intersections in North Bellevue (MMA 1), Wilburton (MMA 4), Crossroads (MMA 5), Northeast Bellevue (MMA 6), South Bellevue (MMA 7), Richards Valley (MMA 8), Eastgate (MMA 10), Newcastle (MMA 11), and Bel-Red/Northup (MMA 12) meet their respective V/C ratio standard.

Under the 2015 CP, with the CIP completed and approved development in place, all MMAs meet their respective congestion allowance standards. Although the number of intersections failing the standard increases to 6, this is still well within the 56 intersections allowed. However, there were 17 intersections with V/C ratios within 0.10 of their respective MMA's V/C thresholds. The intersections that are expected to operate below the standard or barely meeting the standard under the 2015 CP are listed in Table 8. The city will continue to closely monitor the operations of these intersections in the future.

- East Bellevue (MMA 9) has two intersections operating below the standard (five are allowed). Three other intersections barely meet the standard, the highest among all the MMAs.
- Downtown (MMA 3) and Factoria (MMA 13) each has one intersection operating below the standard (nine and five are allowed respectively). Downtown has one intersection and Factoria has two intersections barely meeting the standard.
- Bridle Trails (MMA 2) and Wilburton (MMA 4) each has one intersection below the standard (four and three are allowed respectively). All other intersections are well within the standard.
- Newcastle (MMA 11) has three intersections that barely meet the standard (three are allowed).
- Eastgate (MMA 10) and Bel-Red (MMA 12) do not have any intersections below the V/C standard, but each has two intersections that barely meet the standard.
- Northeast Bellevue (MMA 6), South Bellevue (MMA 7), and Richards Valley (MMA 8) each has one intersection that barely meets the standard (two, four, and five are allowed respectively).
- North Bellevue (MMA 1) and Crossroads (MMA 5) do not have any intersections that are either below or close to falling below their respective standard.

Table 8 Intersection V/C Standards Under 2015 Concurrency Platform

| Intersection Cross Street | MMA | V/C Standard | 2014 Existing Condition | | | 2015 Concurrency Platform | | |
|--|-----|--------------|-------------------------|--------------------|---------------|---------------------------|--------------------|---------------|
| | | | V/C | Remaining Capacity | Standard Met? | V/C | Remaining Capacity | Standard Met? |
| 148th Ave NE & NE 29th Place | 2 | 0.80 | 0.84 | -0.03 | No | 0.83 | -0.03 | No |
| 140th Ave NE & NE 24th Street | 2 | 0.80 | 0.75 | 0.06 | Barely | 0.75 | 0.05 | Barely |
| 112th Ave NE & NE 8th Street | 3 | 0.95 | 1.07 | -0.12 | No | 1.12 | -0.17 | No |
| 112th Ave & Main Street | 3 | 0.95 | 0.85 | 0.10 | Yes | 0.95 | 0.00 | Barely |
| 116th Ave NE & NE 4th Street | 4 | 0.90 | 0.67 | 0.23 | Yes | 0.96 | -0.06 | No |
| 164th Ave NE & NE 8th Street | 6 | 0.80 | 0.74 | 0.06 | Barely | 0.77 | 0.03 | Barely |
| 118th Ave SE & SE 8th Street | 7 | 0.85 | 0.85 | 0.00 | Barely | 0.81 | 0.04 | Barely |
| Lk Hills Connector & SE 8th St/7th Pl. | 8 | 0.85 | 0.80 | 0.05 | Barely | 0.81 | 0.04 | Barely |
| 148th Ave & Main Street | 9 | 0.85 | 0.90 | -0.05 | No | 0.92 | -0.07 | No |
| 148th Ave NE & NE 8th Street | 9 | 0.85 | 0.86 | -0.01 | No | 0.90 | -0.05 | No |
| 148th Ave SE & SE 16th Street | 9 | 0.85 | 0.77 | 0.08 | Barely | 0.78 | 0.07 | Barely |
| 148th Ave SE & Lake Hills Blvd | 9 | 0.85 | 0.76 | 0.09 | Barely | 0.77 | 0.08 | Barely |
| 148th Ave SE & SE 24th Street | 9 | 0.85 | 0.75 | 0.10 | Yes | 0.76 | 0.09 | Barely |
| 150th Ave SE & SE Eastgate Way | 10 | 0.90 | 0.90 | 0.00 | Barely | 0.90 | 0.00 | Barely |
| 150th Ave SE & I-90 EB Off-Ramp | 10 | 0.90 | 0.88 | 0.02 | Barely | 0.88 | 0.02 | Barely |
| Coal Creek PKWY & Forest Drive SE | 11 | 0.80 | 0.73 | 0.07 | Barely | 0.79 | 0.01 | Barely |
| 150th Ave SE & SE Newport Way | 11 | 0.80 | 0.76 | 0.04 | Barely | 0.76 | 0.04 | Barely |
| Lakemont Blvd & SE Newport Way | 11 | 0.80 | 0.73 | 0.07 | Barely | 0.74 | 0.06 | Barely |
| 148th Ave NE & Bellevue-Redmond | 12 | 0.95 | 0.90 | 0.05 | Barely | 0.91 | 0.04 | Barely |
| 124th Ave NE & Northup Way NE | 12 | 0.95 | 0.65 | 0.30 | Yes | 0.86 | 0.09 | Barely |
| 124th Ave SE & Coal Creek PKWY | 13 | 0.95 | 1.01 | -0.06 | No | 1.02 | -0.06 | No |
| 128th Ave SE & SE 38th Place | 13 | 0.95 | 0.90 | 0.05 | Barely | 0.91 | 0.04 | Barely |
| I-405 SB Ramps & Coal Creek Park | 13 | 0.95 | 0.87 | 0.08 | Barely | 0.90 | 0.05 | Barely |

Figures 4 and 5 depict the system intersection analysis results for the 2014 existing condition and the 2015 Currency Platform. Intersections operating below the currency standard (with V/C ratios exceeding the respective MMA V/C threshold) are shown in red. Intersections that barely meeting the currency standard (with calculated V/C ratios lower than but within 0.10 of the V/C standard) are shown in orange. The remaining System Intersections are shown in green, indicating they are well within their respective MMA's concurrency standard.

Figure 4 2014 Existing Condition (PM Peak) System Intersection Assessment

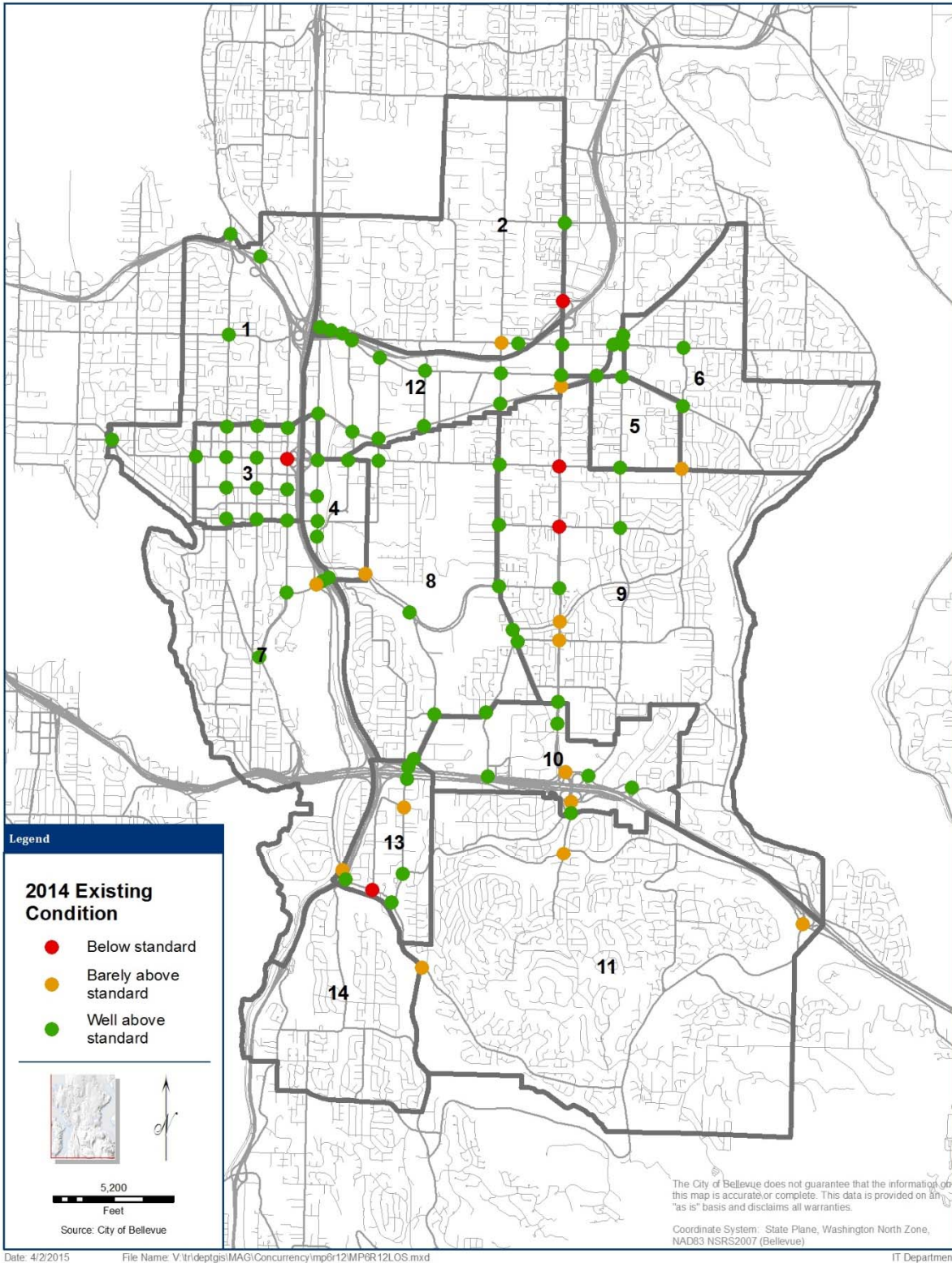
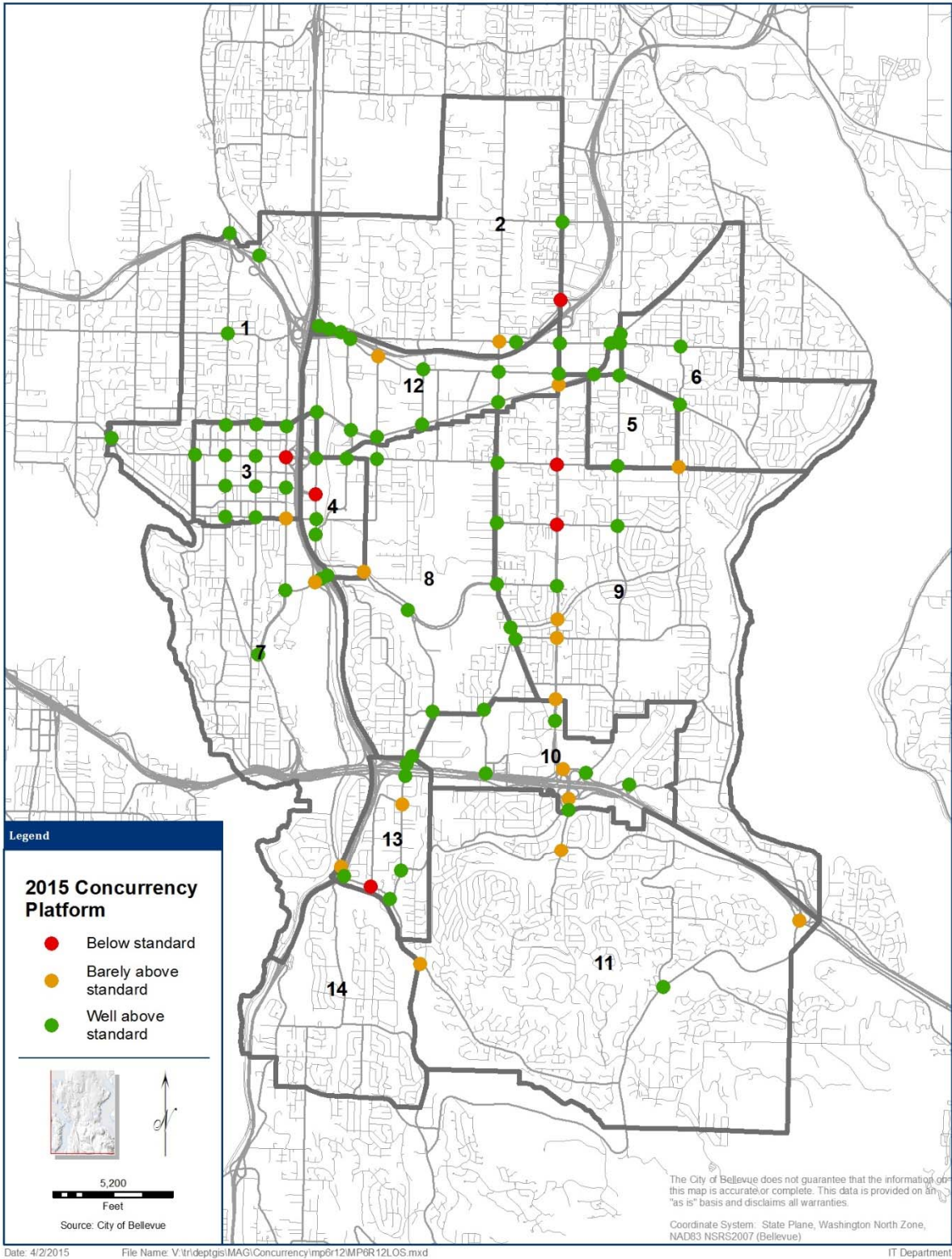


Figure 5 2015 CP (PM Peak) System Intersection Assessment



Conclusion

The 2015-2021 CIP network is able to accommodate the increased demand associated with new development permitted through December 31, 2014. All MMAs meet their congestion allowance and all MMAs are within the average V/C ratios allowed by the concurrency standard for each MMA.

With the CIP completed and approved development in place, four MMAs are expected to experience improved traffic operation: Newcastle (MMA 11), Bridle Trails (MMA 2), South Bellevue (MMA 7), and Northeast Bellevue (MMA 6).

Following the release of this Concurrency Update Report, the 2015 Concurrency Platform (2015 CP; model version MP6-R12) will be used as the background condition for project-level development review modeling until a new concurrency update is completed.

Appendix A: Glossary of Terms

Approved development is a new proposed development that has either received building permit or design approval from the city.

Capital Improvement Program (CIP) is the list of fully funded six year capacity improvement projects as adopted every two years by the Bellevue City Council.

Concurrency is a requirement of the Washington State's Growth Management Act (RCW 36.70A.070(6), now or as hereafter amended) that the city must enforce an ordinance precluding approval of a proposed development if that development would cause the level of service of a transportation facility to fall below the city's adopted standard, unless a financial commitment is in place to complete mitigating transportation improvements or strategies within six years.

Concurrency standard is a standard adopted in the city of Bellevue's Traffic Standards Code (BCC Chapter 14.10) to meet GMA requirements. It establishes the City's transportation concurrency requirements, methodologies, and compliance determination process. It consists of two indicators: Congestion Allowance and maximum average system intersection V/C ratio by individual Mobility Management Area.

Congestion allowance means the number of signalized system intersections in a particular Mobility Management Area allowed to exceed the V/C ratio adopted for that area as defined in the city's Traffic Standards Code.

Highway Capacity Manual is a traffic operation analysis procedural manual published by the Transportation Research Board. It is used by engineers and planners to assess the traffic and environmental effects of highway and arterial projects.

Mobility Management Area (MMA) is a geographic area, as defined in the city's Traffic Standards Code, for performing concurrency analysis and reporting purposes. There are 14 MMAs in the city. The MMA boundaries have evolved slightly over time to include newly annexed lands and to better align with existing land use characteristics and anticipated future development patterns.

Model Platform MP6-R12 is the given model platform name and version where 6 represents 6 year forecasting period and R12 indicates release number 12. It is the city's adopted model platform for concurrency review until the next version is available.

Remaining capacity refers to the capacity available in an MMA for additional vehicles before the V/C ratio threshold is exceeded. It is calculated by subtracting the modeled V/C ratio from the V/C ratio associated with a particular MMA concurrency standard.

System intersections means an intersection which contributes to the system function within each mobility management area. System intersections within the mobility management areas are listed and mapped in BCC 14.10.060.

Travel demand model refers to computerized program designed to perform travel demand forecast. It takes transportation networks and land use information as inputs. The city of Bellevue uses EMME software developed by Inro in Montreal, Canada.

Traffic Standards Code is the Chapter 14 of the Bellevue City Code. It sets forth specific standards providing for city compliance with the concurrency requirements of the state Growth Management Act (GMA) and for consistency between city and countywide planning policies under the GMA. The GMA requires that transportation improvements or strategies to accommodate the traffic impacts of development be provided concurrently with development to handle the increased traffic projected to result from growth and development in the city and region.

V/C ratio is an indication of congestion and the ability of the facility to support transportation demand. Intersection V/C ratio is the sum of the approaching “critical” lane volumes divided by the available corresponding capacity for those lanes. Critical lane volume is the number of vehicles that want to occupy the same travel space to get to their destination.

Appendix B: Intersection Level of Service Results by Mobility Management Area

MMA 1: North Bellevue V/C Threshold 0.85

| Intersection Streets | | 2014 Existing Condition | | 2015 C.P. | |
|----------------------|------------------|-------------------------|---------------|-------------|---------------|
| | | V/C | Standard Met? | V/C | Standard Met? |
| Bellevue Way NE | NE 24th Street | 0.51 | Yes | 0.54 | Yes |
| Bellevue Way NE | Northup Way NE | 0.61 | Yes | 0.60 | Yes |
| 108th Ave NE | Northup Way NE | 0.53 | Yes | 0.57 | Yes |
| Lk Washington B | NE 1st/NE 10 St. | 0.27 | Yes | 0.28 | Yes |
| Areawide V/C | | 0.48 | 0.00 | 0.49 | |

MMA 2: Bridle Trail V/C Threshold 0.80

| Intersection Streets | | 2014 Existing Condition | | 2015 C.P. | |
|----------------------|----------------|-------------------------|---------------|-------------|---------------|
| | | V/C | Standard Met? | V/C | Standard Met? |
| 140th Ave NE | NE 24th Street | 0.75 | Barely | 0.75 | Barely |
| 148th Ave NE | NE 40th Street | 0.60 | Yes | 0.59 | Yes |
| 116th Ave NE | Northup Way NE | 0.66 | Yes | 0.49 | Yes |
| 115th Place NE | Northup Way | 0.69 | Yes | 0.49 | Yes |
| Northup Way | NE 24th Street | 0.49 | Yes | 0.58 | Yes |
| 140th Ave NE | NE 40th Street | ---- | ---- | ---- | ---- |
| 148th Ave NE | NE 29th Place | 0.84 | No | 0.83 | No |
| NE 29th Place | NE 24th Street | 0.51 | Yes | 0.51 | Yes |
| Areawide | | 0.65 | 0.00 | 0.63 | |

MMA 3: Downtown V/C Threshold 0.95

| Intersection Streets | | 2014 Existing Condition | | 2015 C.P. | |
|----------------------|----------------|-------------------------|---------------|-------------|---------------|
| | | V/C | Standard Met? | V/C | Standard Met? |
| 100th Ave NE | NE 8th Street | 0.47 | Yes | 0.49 | Yes |
| Bellevue Way NE | NE 12th Street | 0.63 | Yes | 0.66 | Yes |
| Bellevue Way NE | NE 8th Street | 0.61 | Yes | 0.62 | Yes |
| Bellevue Way NE | NE 4th Street | 0.65 | Yes | 0.75 | Yes |
| Bellevue Way | Main Street | 0.74 | Yes | 0.84 | Yes |
| 108th Ave NE | NE 12th Street | 0.32 | Yes | 0.38 | Yes |
| 108th Ave NE | NE 8th Street | 0.59 | Yes | 0.63 | Yes |
| 108th Ave NE | NE 4th Street | 0.61 | Yes | 0.78 | Yes |
| 108th Ave | Main Street | 0.44 | Yes | 0.55 | Yes |
| 112th Ave NE | NE 12th Street | 0.62 | Yes | 0.65 | Yes |
| 112th Ave NE | NE 8th Street | 1.07 | No | 1.12 | No |
| 112th Ave | Main Street | 0.85 | Barely | 0.95 | Barely |
| 112th Ave NE | NE 4th Street | 0.66 | Yes | 0.79 | Yes |
| Areawide | | 0.65 | 0.00 | 0.72 | |

Note: Dashed marks indicate unsignalized intersections, which are excluded from the concurrency calculations.

MMA 4: Wilburton

V/C Threshold 0.90

| Intersection Streets | | 2014 Existing Condition | | 2015 C.P. | |
|----------------------|---------------|-------------------------|---------------|-------------|---------------|
| | | V/C | Standard Met? | V/C | Standard Met? |
| 116th Ave NE | NE 8th Street | 0.71 | Yes | 0.59 | Yes |
| 116th Ave | Main Street | 0.62 | Yes | 0.64 | Yes |
| 116th Ave SE | SE 1st Street | 0.70 | Yes | 0.67 | Yes |
| 116th Ave NE | NE 4th Street | 0.67 | Yes | 0.96 | No |
| 120th Ave NE | NE 8th Street | 0.69 | Yes | 0.78 | Yes |
| Areawide | | 0.68 | 0.00 | 0.73 | |

MMA 5: Crossroads

V/C Threshold 0.90

| Intersection Streets | | 2014 Existing Condition | | 2015 C.P. | |
|----------------------|----------------|-------------------------|---------------|-------------|---------------|
| | | V/C | Standard Met? | V/C | Standard Met? |
| Bellevue-Redmond | NE 20th Street | 0.51 | Yes | 0.53 | Yes |
| 156th Ave NE | Northup Way | 0.74 | Yes | 0.74 | Yes |
| 156th Ave NE | NE 8th Street | 0.65 | Yes | 0.66 | Yes |
| Areawide | | 0.62 | 0.00 | 0.63 | |

MMA 6: North-East Bellevue

V/C Threshold 0.80

| Intersection Streets | | 2014 Existing Condition | | 2015 C.P. | |
|----------------------|----------------|-------------------------|---------------|-------------|---------------|
| | | V/C | Standard Met? | V/C | Standard Met? |
| 164th Ave NE | NE 24th Street | 0.60 | Yes | 0.61 | Yes |
| 164th Ave NE | Northup Way | 0.54 | Yes | 0.55 | Yes |
| 164th Ave NE | NE 8th Street | 0.74 | Barely | 0.77 | Barely |
| Northup Way | NE 8th Street | ----- | ----- | ----- | ----- |
| Areawide | | 0.63 | 0.00 | 0.64 | |

MMA 7: South Bellevue

V/C Threshold 0.85

| Intersection Streets | | 2014 Existing Condition | | 2015 C.P. | |
|----------------------|-----------------|-------------------------|---------------|-------------|---------------|
| | | V/C | Standard Met? | V/C | Standard Met? |
| 112th Ave SE | Bellevue Way SE | 0.70 | Yes | 0.73 | Yes |
| 112th Ave SE | SE 8th Street | 0.62 | Yes | 0.58 | Yes |
| 118th Ave SE | SE 8th Street | 0.85 | Barely | 0.81 | Barely |
| I-405 NB Ramps | SE 8th Street | 0.64 | Yes | 0.62 | Yes |
| I-405 SB Ramps | SE 8th Street | 0.47 | Yes | 0.47 | Yes |
| Areawide | | 0.65 | 0.00 | 0.65 | |

MMA 8: Richards Valley V/C Threshold 0.85

| Intersection Streets | | 2014 Existing Condition | | 2015 C.P. | |
|----------------------|-----------------|-------------------------|---------------|-------------|---------------|
| | | V/C | Standard Met? | V/C | Standard Met? |
| 124th Ave NE | NE 8th Street | 0.67 | Yes | 0.66 | Yes |
| 140th Ave SE | SE 8th Street | 0.65 | Yes | 0.66 | Yes |
| 145th Place SE | Lake Hills Blvd | 0.53 | Yes | 0.55 | Yes |
| 145th Place SE | SE 16th Street | 0.49 | Yes | 0.51 | Yes |
| Lk Hills Connec | SE 8th St/7t | 0.80 | Barely | 0.81 | Barely |
| Richards Rd | Kamber Rd | 0.69 | Yes | 0.70 | Yes |
| Richards Rd | SE 32nd Street | 0.63 | Yes | 0.71 | Yes |
| Richards Rd | Lk Hills Connec | 0.52 | Yes | 0.53 | Yes |
| 139th Ave SE | Kamber Road | 0.43 | Yes | 0.43 | Yes |
| Areawide | | 0.61 | 0.00 | 0.63 | |

MMA 9: East Bellevue V/C Threshold 0.85

| Intersection Streets | | 2014 Existing Condition | | 2015 C.P. | |
|----------------------|-----------------|-------------------------|---------------|-------------|---------------|
| | | V/C | Standard Met? | V/C | Standard Met? |
| 140th Ave NE | NE 8th Street | 0.70 | Yes | 0.73 | Yes |
| 140th Ave | Main Street | 0.51 | Yes | 0.54 | Yes |
| 148th Ave NE | NE 8th Street | 0.86 | No | 0.90 | No |
| 148th Ave | Main Street | 0.90 | No | 0.92 | No |
| 148th Ave SE | Lake Hills Blvd | 0.76 | Barely | 0.77 | Barely |
| 148th Ave SE | SE 16th Street | 0.77 | Barely | 0.78 | Barely |
| 148th Ave SE | SE 24th Street | 0.75 | Barely | 0.76 | Barely |
| 148th Ave SE | SE 8th Street | 0.66 | Yes | 0.67 | Yes |
| 156th Ave | Main Street | 0.67 | Yes | 0.69 | Yes |
| Areawide | | 0.74 | 0.00 | 0.77 | |

MMA 10: Eastgate V/C Threshold 0.90

| Intersection Streets | | 2014 Existing Condition | | 2015 C.P. | |
|----------------------|-----------------|-------------------------|---------------|-------------|---------------|
| | | V/C | Standard Met? | V/C | Standard Met? |
| 148th Ave SE | SE 27th Street | 0.56 | Yes | 0.56 | Yes |
| 156th Ave SE | SE Eastgate Way | 0.58 | Yes | 0.58 | Yes |
| 161st Ave SE | SE Eastgate Way | 0.40 | Yes | 0.40 | Yes |
| 150th Ave SE | SE Eastgate Way | 0.90 | No | 0.90 | No |
| 142nd Ave SE | SE 36th Street | ----- | ---- | ----- | ---- |
| 150th Ave SE | SE 38th Street | 0.70 | Yes | 0.70 | Yes |
| 150th Ave SE | I-90 EB Off-Ram | 0.88 | Barely | 0.88 | Barely |
| 139th Ave SE | SE Eastgate Way | 0.31 | Yes | 0.34 | Yes |
| Areawide | | 0.65 | 0.00 | 0.65 | |

MMA 11: Newcastle

V/C Threshold 0.80

| Intersection Streets | | 2014 Existing Condition | | 2015 C.P. | |
|----------------------|----------------|-------------------------|---------------|-------------|---------------|
| | | V/C | Standard Met? | V/C | Standard Met? |
| Coal Creek Park | Forest Drive | 0.73 | Barely | 0.79 | Barely |
| 150th Ave SE | SE Newport Way | 0.76 | Barely | 0.76 | Barely |
| Lakemont Blvd (| SE Newport Way | 0.73 | Barely | 0.74 | Barely |
| Lakemont Blvd | Forest Drive | ----- | ----- | ----- | ----- |
| 164th Ave SE | Lakemont Blvd | ----- | ----- | 0.42 | Yes |
| 164th Ave SE | SE Newport Way | ----- | ----- | ----- | ----- |
| Areawide | | 0.74 | 0.00 | 0.66 | |

MMA 12: Bel-Red/Northup

V/C Threshold 0.95

| Intersection Streets | | 2014 Existing Condition | | 2015 C.P. | |
|----------------------|------------------|-------------------------|---------------|-------------|---------------|
| | | V/C | Standard Met? | V/C | Standard Met? |
| 116th Ave NE | NE 12th Street | 0.67 | Yes | 0.76 | Yes |
| 120th Ave NE | NE 12th Street | 0.53 | Yes | 0.63 | Yes |
| 124th Ave NE | Bellevue-Redmond | 0.79 | Yes | 0.82 | Yes |
| 130th Ave NE | Bellevue-Redmond | 0.56 | Yes | 0.59 | Yes |
| 140th Ave NE | NE 20th Street | 0.69 | Yes | 0.70 | Yes |
| 140th Ave NE | Bellevue-Redmond | 0.69 | Yes | 0.71 | Yes |
| 148th Ave NE | NE 20th Street | 0.81 | Yes | 0.82 | Yes |
| 148th Ave NE | Bellevue-Redmond | 0.90 | Barely | 0.91 | Barely |
| Bellevue-Redmond | NE 24th Street | 0.62 | Yes | 0.64 | Yes |
| 156th Ave NE | Bellevue-Redmond | 0.62 | Yes | 0.64 | Yes |
| 156th Ave NE | NE 24th Street | 0.71 | Yes | 0.78 | Yes |
| 130th Ave NE | NE 20th Street | 0.52 | Yes | 0.67 | Yes |
| 148th Ave NE | NE 24th Street | 0.71 | Yes | 0.73 | Yes |
| 124th Ave NE | Northup Way NE | 0.65 | Yes | 0.86 | Barely |
| 120th Ave NE | NE 20th Street | 0.36 | Yes | 0.36 | Yes |
| Areawide | | 0.67 | 0.00 | 0.70 | |

MMA 13: Factoria

V/C Threshold 0.95

| Intersection Streets | | 2014 Existing Condition | | 2015 C.P. | |
|----------------------|-----------------|-------------------------|---------------|-------------|---------------|
| | | V/C | Standard Met? | V/C | Standard Met? |
| Richards Rd | SE Eastgate Way | 0.79 | Yes | 0.81 | Yes |
| 128th Ave SE/Ne | SE Newport Way | 0.73 | Yes | 0.74 | Yes |
| SE Newport Way | Coal Creek Pkwy | 0.70 | Yes | 0.70 | Yes |
| 128th Ave SE | SE 36th Street | 0.80 | Yes | 0.81 | Yes |
| I-405 NB Ramps | Coal Creek Park | 0.53 | Yes | 0.56 | Yes |
| I-405 SB Ramps | Coal Creek Park | 0.87 | Barely | 0.90 | Barely |
| 128th Ave SE | SE 38th Place | 0.90 | Barely | 0.91 | Barely |
| 124th Ave SE | Coal Creek Park | 1.01 | No | 1.02 | No |
| Areawide | | 0.80 | 0.00 | 0.81 | |

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