



I-225 Reconfiguration Monthly Performance Report

March 2018

Prepared by:



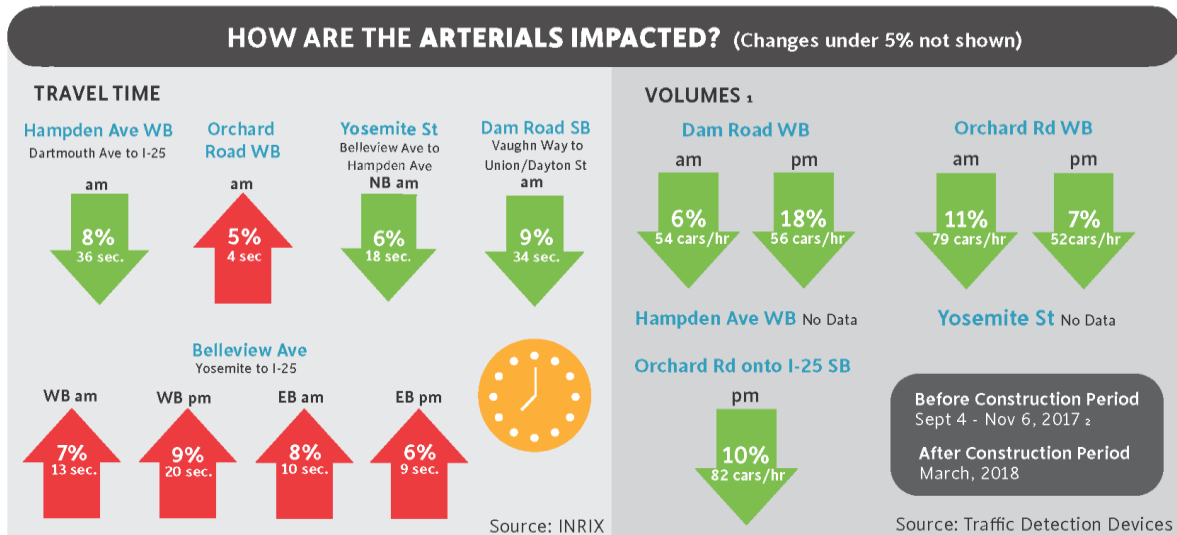
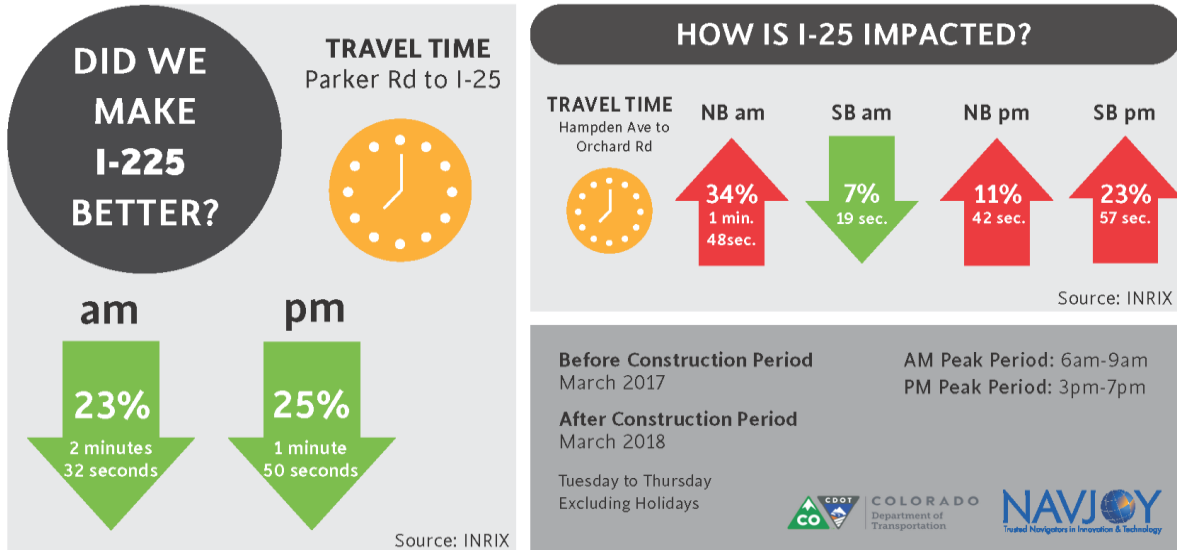
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Executive Summary



¹Volume differences on Orchard WB are averaged over multiple intersections.

²No data available for March 2017

Section 1: I-225 Update

To Date, How Are Travel Times Changing Following Construction on I-225?

Measure: Average travel time during the AM and PM peak period Tuesday - Thursday from November 14, 2016 – March 29, 2018

Source: INRIX

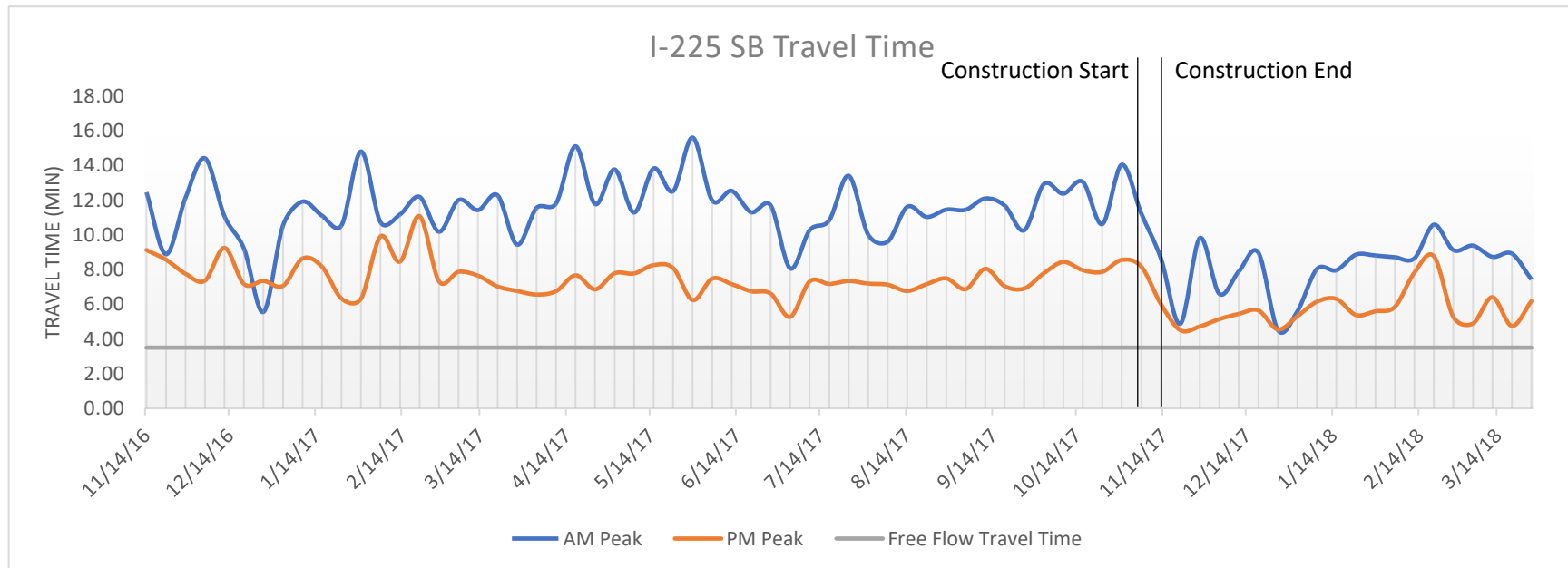
AM Peak Period: Tuesday - Thursday 6AM to 9AM

PM Peak Period: Tuesday - Thursday 3PM to 7PM

Before Construction Period: November 14, 2016 – November 3, 2017

After Construction Period: November 14, 2017 – March 29, 2018

Figure 1: I-225 SB – Parker to I-25 Travel Time Trend



We will continue to monitor I-225 SB as the months progress to see if travel times return to pre-construction levels or remain lower.

Section 2: Travel Times

How Do Travel Times This Year Compare to Last Year?

Measure: Average travel time during the AM and PM peak period Tuesday – Thursday (travel times are averaged over each peak period, each day, which are then averaged over the month)

Source: INRIX

AM Peak Period: Tuesday - Thursday 6AM to 9AM

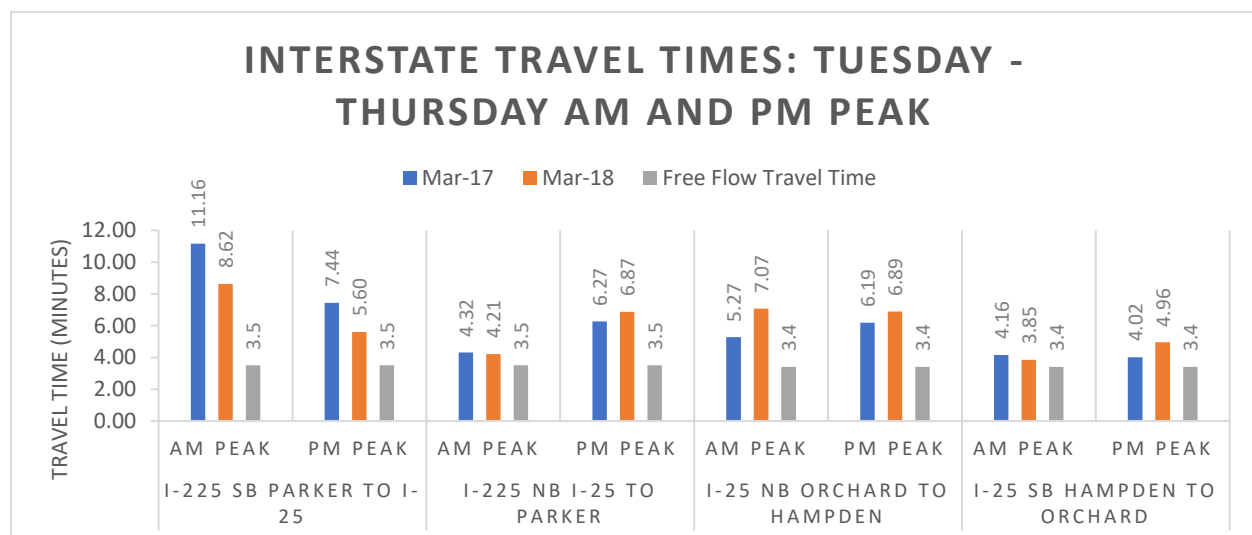
PM Peak Period: Tuesday - Thursday 3PM to 7PM

Interstate Travel Times

Notable Changes in February '18

- It takes 2 minutes and 32 seconds **less** to travel SB on I-225 from Parker to I-25 in the AM Peak
- It takes 1 minute and 50 seconds **less** to travel SB on I-225 from Parker to I-25 in the PM Peak
- It takes 1 minute and 48 seconds **more** to travel NB on I-25 from Orchard to Hampden in the AM Peak
- It takes 57 seconds **more** to travel SB on I-25 from Hampden to Orchard in the PM Peak
- It takes 42seconds **more** to travel NB on I-25 from Orchard to Hampden in the PM Peak

Figure 2: Interstate Travel Times

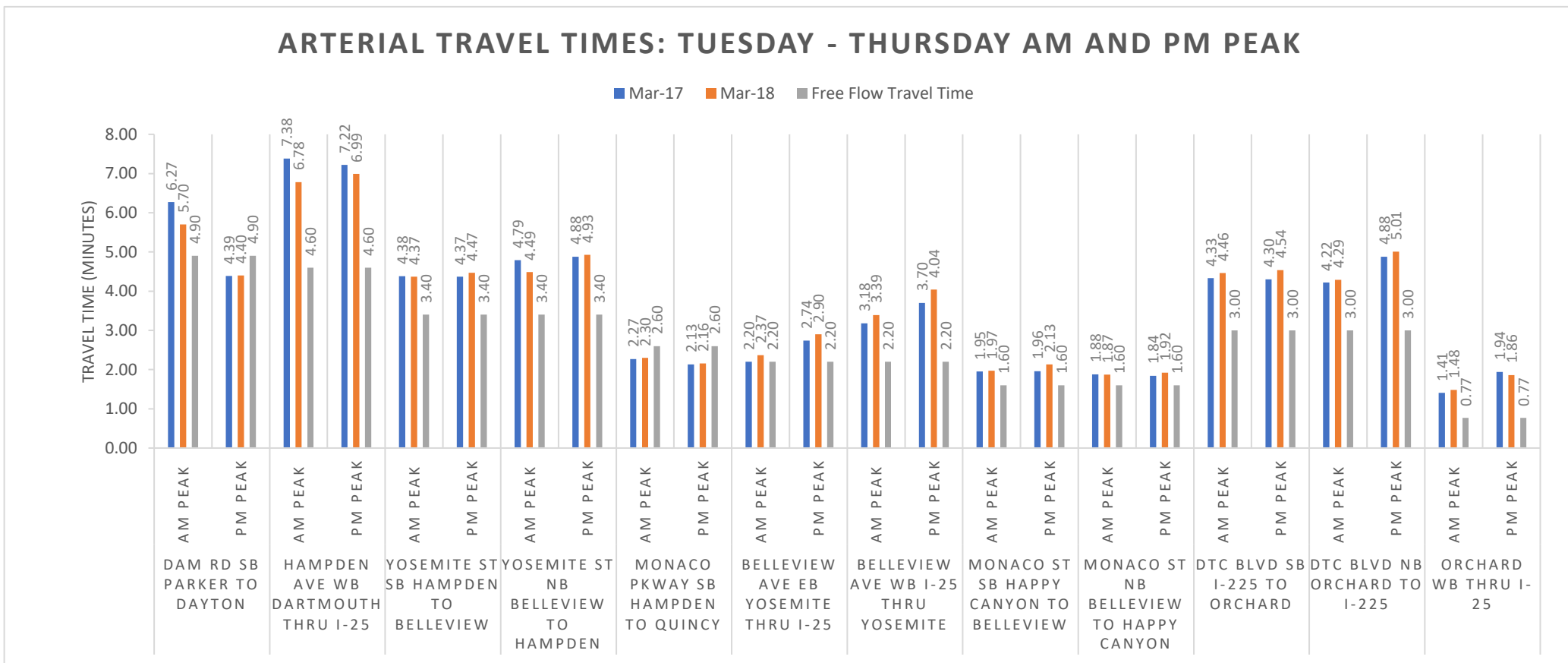


Arterial Travel Times

Notable Changes in February '18

- It takes 36 seconds **less** to travel WB on Hampden Ave from Dartmouth to I-25 in the AM Peak
- It takes 34 seconds **less** to travel SB on Dam Rd from Parker to Dayton in the AM Peak
- It takes 20 seconds **more** to travel WB on Bellevue Ave from Yosemite to I-25 in the PM Peak

Figure 3: Arterial Travel Times



Travel Time Ranges

For a more in-depth look at travel times within the project network, we broke up each peak period into 15-minute intervals. Below we reported the average minimum and maximum travel time for the month of March 2017 and March 2018 along each corridor. Decreases are represented in **green**, and increases are represented in **red**.

| Corridor | Peak | Mar '17 Min | Mar '17 Max | Mar '18 Min | Mar '18 Max |
|---------------------------------------|---------|----------------|----------------|----------------|----------------|
| I-225 SB Parker to I-25 | AM Peak | 4.38 | 15.64 | 4.13 | 12.94 |
| | PM Peak | 4.87 | 10.00 | 4.17 | 8.72 |
| I-225 NB I-25 to Parker | AM Peak | 4.13 | 4.68 | 4.05 | 4.50 |
| | PM Peak | 4.44 | 8.51 | 4.40 | 10.50 |
| I-25 NB Orchard to Hampden | AM Peak | 3.40 | 7.85 | 3.33 | 11.10 |
| | PM Peak | 3.94 | 8.69 | 3.94 | 8.87 |
| I-25 SB Hampden to Orchard | AM Peak | 3.48 | 5.50 | 3.43 | 4.43 |
| | PM Peak | 3.49 | 4.53 | 3.49 | 8.27 |
| Dam Rd SB Parker to Dayton | AM Peak | 4.75 | 8.41 | 4.55 | 8.43 |
| | PM Peak | 4.12 | 4.59 | 4.23 | 4.75 |
| Hampden Ave WB Dartmouth through I-25 | AM Peak | 5.11 | 9.84 | 5.31 | 9.08 |
| | PM Peak | 6.13 | 8.44 | 6.15 | 8.08 |
| Yosemite St SB Hampden to Bellevue | AM Peak | 3.94 | 5.05 | 3.66 | 5.44 |
| | PM Peak | 3.89 | 4.99 | 3.94 | 5.09 |
| Yosemite St NB Bellevue to Hampden | AM Peak | 4.21 | 5.32 | 3.91 | 5.55 |
| | PM Peak | 4.16 | 6.05 | 4.21 | 6.02 |
| Monaco Pkwy SB Hampden to Quincy | AM Peak | 1.99 | 2.46 | 2.15 | 2.45 |
| | PM Peak | 1.95 | 2.32 | 1.93 | 2.44 |
| Bellevue Ave EB Yosemite through I-25 | AM Peak | 1.73 | 3.01 | 1.89 | 2.90 |
| | PM Peak | 2.18 | 3.38 | 2.35 | 3.64 |
| Bellevue Ave WB I-25 through Yosemite | AM Peak | 2.76 | 3.83 | 2.76 | 4.27 |
| | PM Peak | 3.04 | 4.63 | 3.10 | 5.30 |
| Monaco St SB Happy Canyon to Bellevue | AM Peak | 1.79 | 2.49 | 1.81 | 2.26 |
| | PM Peak | 1.86 | 2.15 | 1.91 | 2.49 |
| Monaco St NB Bellevue to Happy Canyon | AM Peak | 1.77 | 2.24 | 1.79 | 2.00 |
| | PM Peak | 1.72 | 2.11 | 1.72 | 2.22 |
| DTC Blvd SB I-225 to Orchard | AM Peak | 3.67 | 5.16 | 4.04 | 5.05 |
| | PM Peak | 3.74 | 5.10 | 3.89 | 5.51 |
| DTC Blvd NB Orchard to I-225 | AM Peak | 3.91 | 4.51 | 3.82 | 4.76 |
| | PM Peak | 4.15 | 6.06 | 4.16 | 6.18 |
| Orchard WB through I-25 | AM Peak | 1.13 | 1.79 | 1.15 | 1.82 |
| | PM Peak | 1.33 | 2.59 | 1.18 | 2.66 |

Travel Time Index Network Analysis

AM Peak

Pain Points to Observe

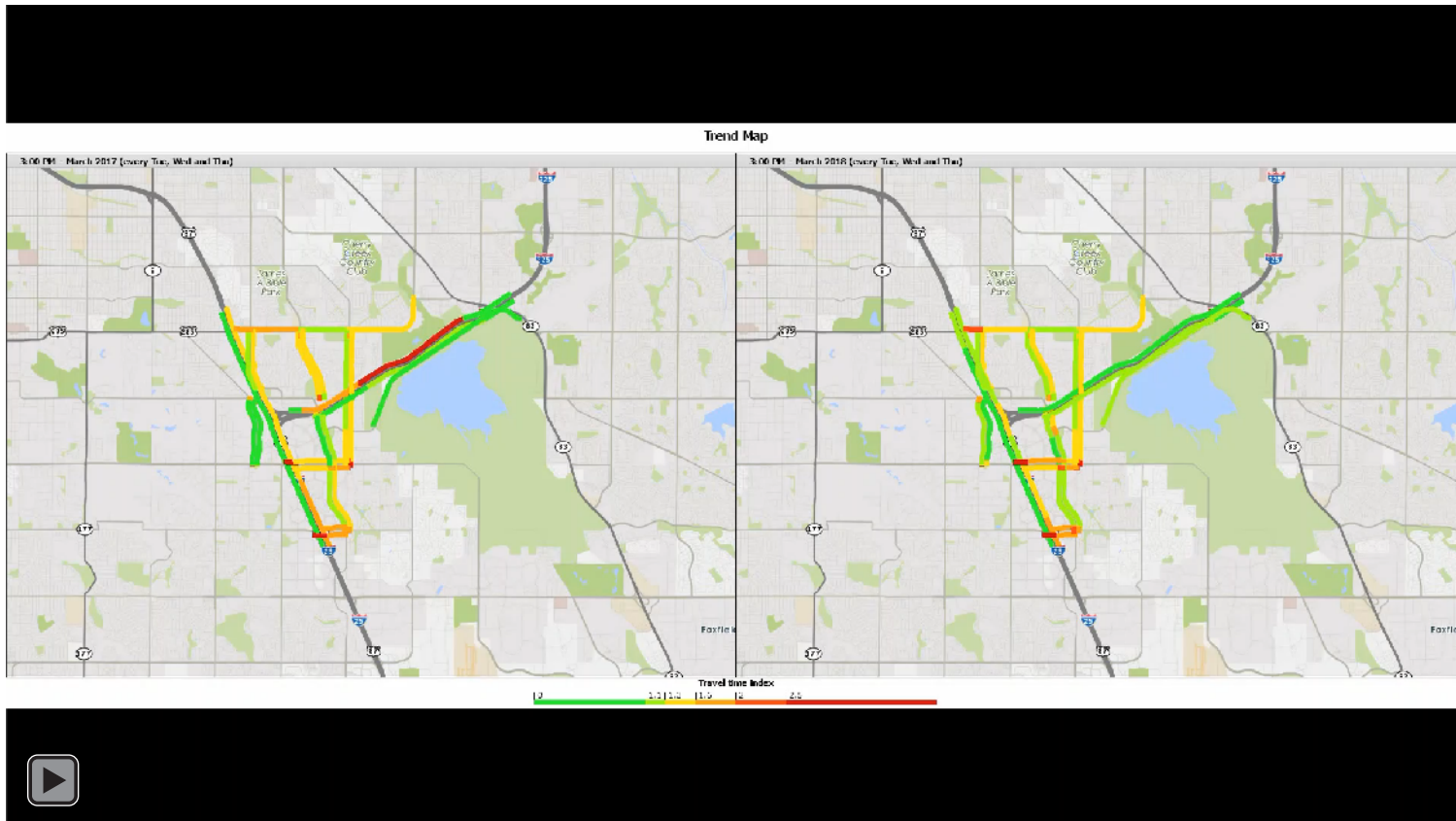
- Orchard Rd EB from I-25 to DTC Blvd



PM Peak

Pain Points to Observe

- Bellevue WB from DTC Blvd to I-25
- Hampden WB from Monaco to I-25



Planning Time Index

Measure: PTI – the ratio of the 95th percent peak period travel time to the free flow travel time

Source: INRIX

AM Peak Period: Tuesday - Thursday 6AM to 9AM

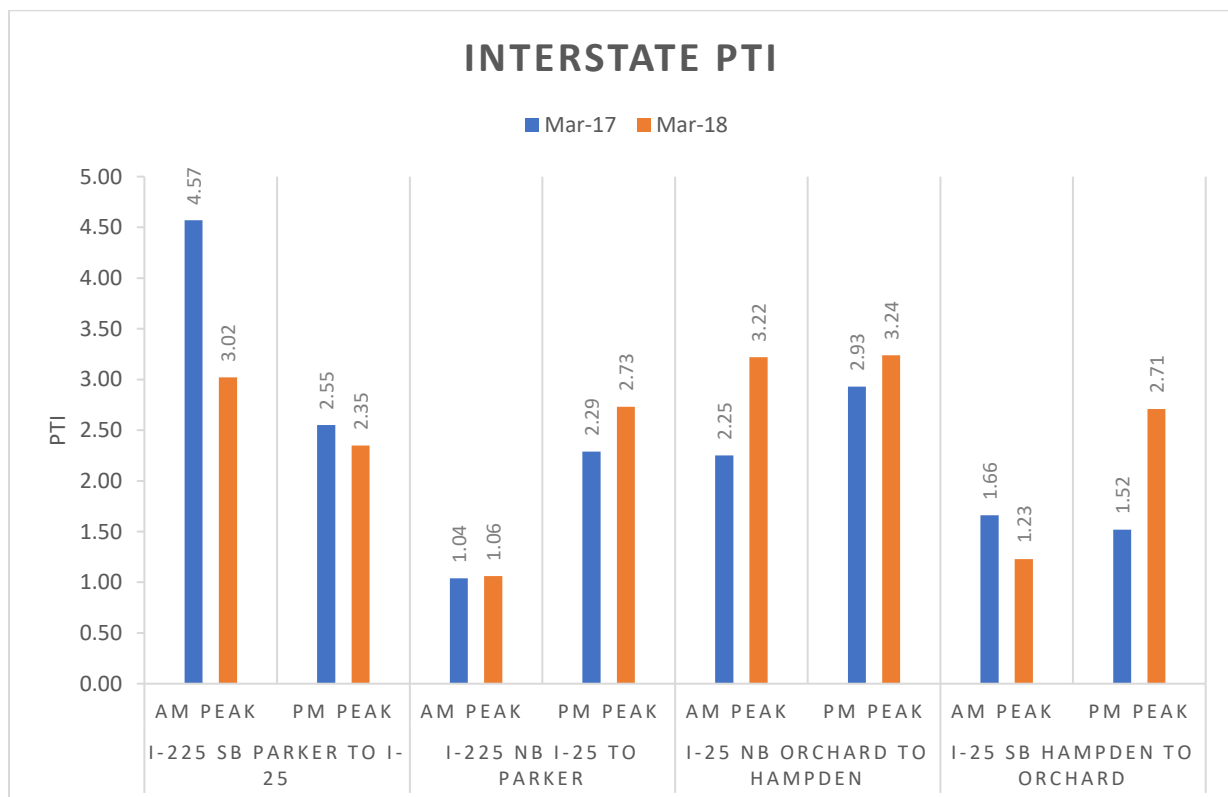
PM Peak Period: Tuesday - Thursday 3PM to 7PM

Interstate PTI

Notable Changes in February '18

- PTI **decreased** by 1.55 on I-225 SB from Parker to I-25 in the AM Peak
- PTI **decreased** by 0.43 on I-25 SB from Hampden to Orchard in the AM Peak
- PTI **increased** by 1.19 on I-25 SB from Hampden to Orchard in the PM Peak
- PTI **increased** by 0.97 on I-25 NB from Orchard to Hampden in the AM Peak

Figure 4: Interstate PTI



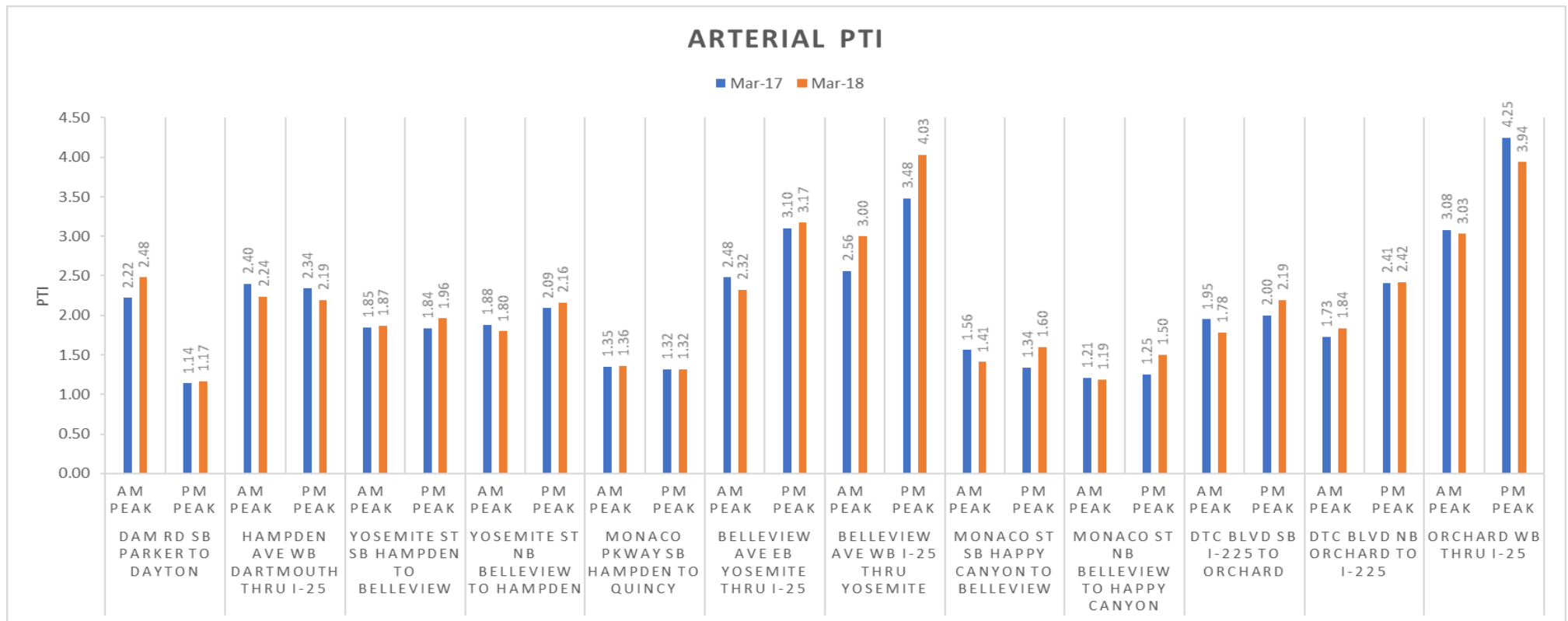
*Inconsistently high PTIs may be indicative of construction or incidents during that time.

Arterial PTI

Notable Changes in February '18

- PTI **increased** by 0.55 on Bellevue Ave WB from I-25 to Yosemite in the PM Peak
- PTI **increased** by 0.44 on Bellevue Ave WB from I-25 to Yosemite in the AM Peak

Figure 5: Arterial PTI



Section 3: Volumes

Have Volumes Changed Following Construction?

Measure: Average daily peak-hour volume

Source: Ramp Meter Devices (Interstates), Traffic Detection Cameras (Arterials)

AM Peak Period: Monday - Friday 6AM to 9AM

PM Peak Period: Monday - Friday 3PM to 7PM

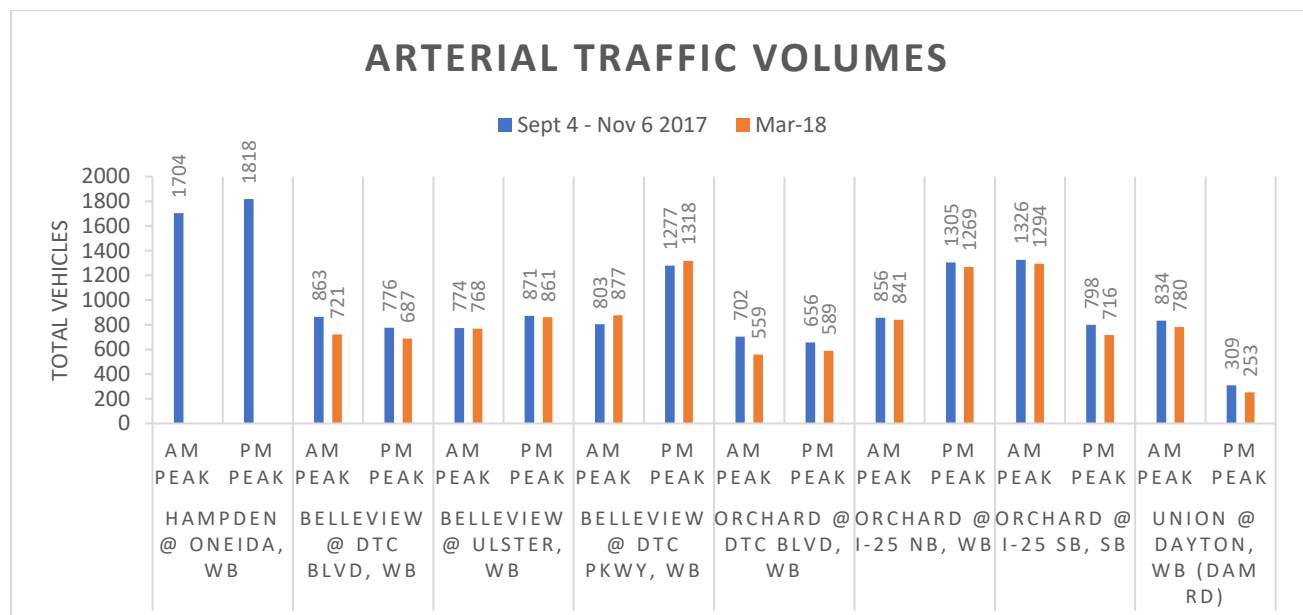
There is no current data available for Ramp Meter, Interstate, or Hampden Volumes

Arterial Volumes

Notable Changes in February '18

- There are 74 **more** vehicles/hour going WB on Bellevue @ DTC Pkwy in the AM Peak
- There are 143 **less** vehicles/hour going WB on Orchard @ DTC Blvd in the AM Peak
- There are 142 **less** vehicles/hour going WB on Bellevue @ DTC Blvd in the AM Peak
- There are 89 **less** vehicles/hour going WB on Bellevue @ DTC Blvd in the PM Peak
- There are 82 **less** vehicles/hour turning onto I-25 SB @ Orchard in the PM Peak

Figure 6: Arterial Volumes



*Note that the “historic” comparison is Sept 4 – Nov 6, 2017 (Before Construction). This was due to limited historical data that did not let us use February 2018 as a comparison point.

Section 4: Project and Report Updates

This is a monthly report that will continue to evolve and display the most current and accurate data possible.

Please note, COGNOS interstate/ramp volume data is unavailable for March 2018. We will check each month for this data.

Section 5: Overall Conclusions

Based on the travel time data presented in this report, we are observing consistent patterns with the February data. I-225 SB has remained 23% faster and I-25 NB continues to show degradation in the AM Peak. This month, we observed greater degradation on I-25 SB in the PM Peak than previously. Belleview Ave continues to show degradation in the peak periods, with overall route improvements on Dam Rd and Hampden Ave.