

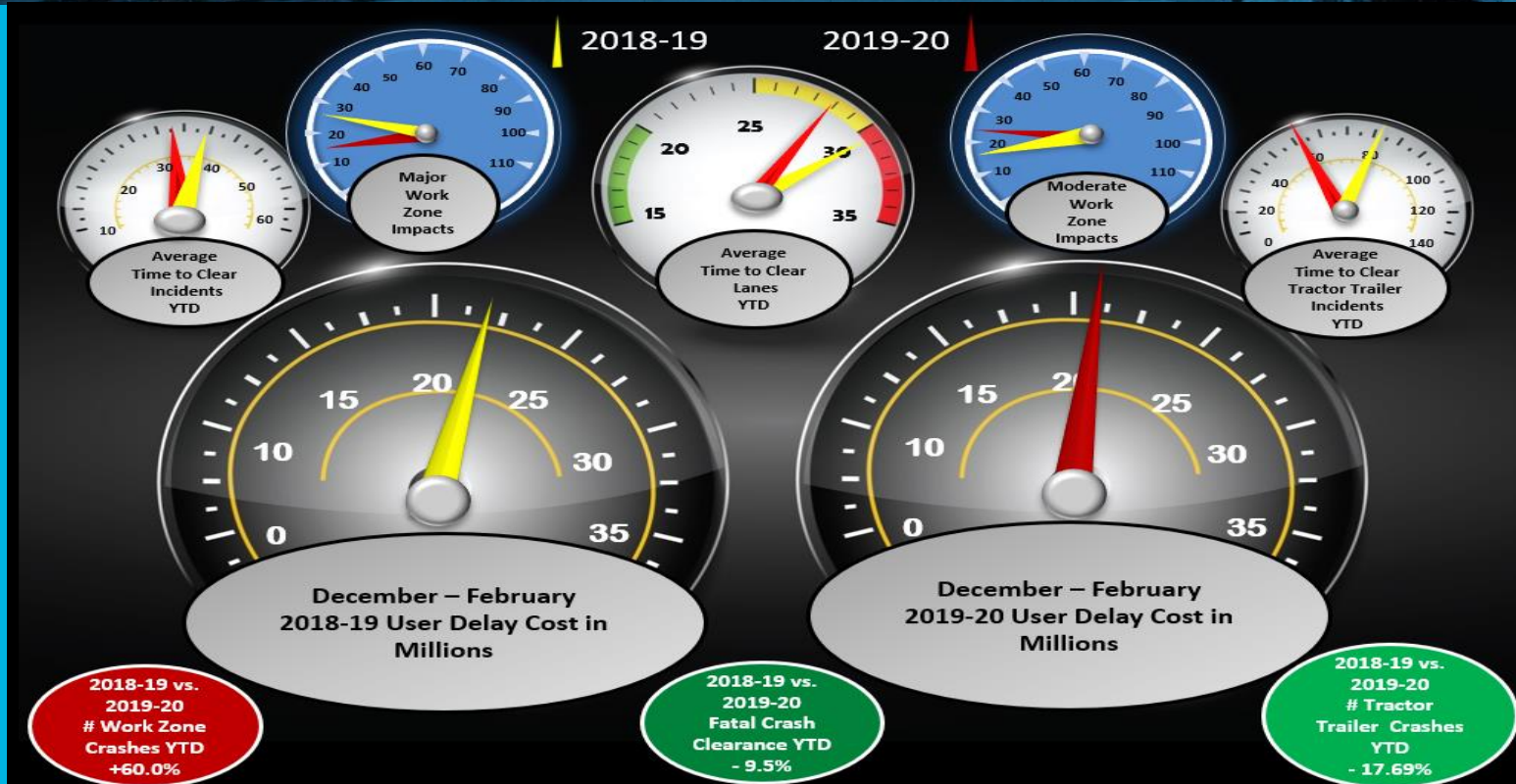


ST. LOUIS DISTRICT MOBILITY

QUARTERLY REGIONAL MOBILITY REPORT ■ DECEMBER 2019 / JANUARY / FEBRUARY 2020 | EDITION NO. 10

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User Delay Cost: Passenger Vehicle \$17.67 Commercial Vehicle \$68.09
Sources Texas Transportation Institute & American Transportation Research Institute

December 2018 thru February 2019 Grand Total and Average

| | |
|-------------------------------------|--|
| Delay cost: | Vehicle Miles traveled (VMT) |
| Total \$22,210,801 | Total: 2,142,501,138 miles |
| Hours of delay | Passenger: 1,928,251,024 miles |
| Person-hours: 1,019,502h 40m | Commercial: 214,250,114 miles |
| Vehicle hours: 832,247h 4m | Delay per VMT: 0.0233 mins/mile |

December 2019 thru February 2020 Grand Total and Average

| | |
|------------------------------------|--|
| Delay cost: | Vehicle Miles traveled (VMT) |
| Total \$20,654,512 | Total: 2,171,276,186 miles |
| Hours of delay | Passenger: 1,954,148,567 miles |
| Person-hours: 948,067h 5m | Commercial: 217,127,619 miles |
| Vehicle hours: 773,932h 19m | Delay per VMT: 0.0214 mins/mile |



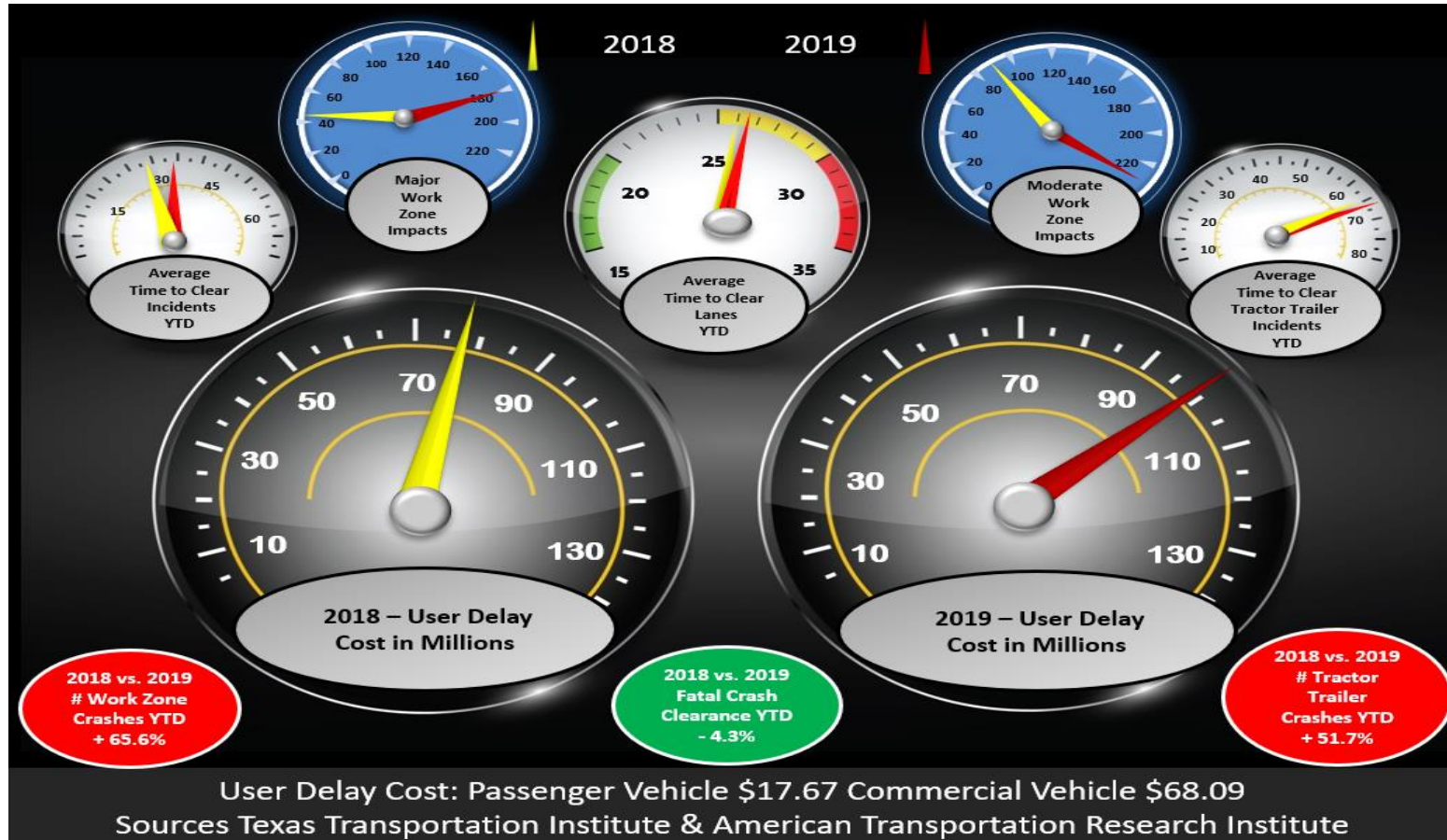
EXECUTIVE SUMMARY

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2018 Year vs 2019 Year Comparison



| 2018 Grand Total and Average | |
|---|---|
| Delay cost: Total \$77,207,278 | Vehicle Miles traveled (VMT) Total: 8,636,290,697 miles |
| Hours of delay Person-hours: 3,543,907h 28m | Passenger: 7,772,661,628 miles |
| Vehicle hours: 2,892,985h 41m | Commercial: 863,629,070 miles |
| | Delay per VMT: 0.0201 mins/mile |

| 2019 Grand Total and Average | |
|---|---|
| Delay cost: Total \$99,861,870 | Vehicle Miles traveled (VMT) Total: 8,680,287,713 miles |
| Hours of delay Person-hours: 4,583,780h 36m | Passenger: 7,812,258,942 miles |
| Vehicle hours: 3,741,861h 42m | Commercial: 868,028,771 miles |
| | Delay per VMT: 0.0259 mins/mile |



EXECUTIVE SUMMARY

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ZONING IN

Fatal Crash Clearance times improved by 9.5% this quarter and 4.3 % in 2019 compared to 2018

The number of tractor trailer incidents decreased 17.69%

Work zone crashes increased by 60.0% compared to Winter of 2019

Overall Regional Mobility for the winter quarter decreased slightly during the AM peak. PM peak mobility increased.

Northbound I-270 at Manchester MO 100 took over the top congested spot this quarter same as the previous year to date

TMS Work Zones:

| | | |
|-----|-------|-----|
| Dec | 2019: | 169 |
| Jan | 2020: | 143 |
| Feb | 2020: | 169 |

Work Zone Impact Breakdown:

| | | |
|---------------------------------------|-----------|------------|
| ■ | Major: | 16– 3.6% |
| ■ | Moderate: | 24– 5.4% |
| ■ | Minor: | 407– 91.0% |

WORK ZONE CRASHES: 45

Planned Event

Date: Entire Quarter

Location: Eastbound / Westbound I-44 at I-270

Event Detail: Continued Bridge work - daily lane closures and additional travel times of up to 23 minutes during non-peak hours.

Unplanned Event

Date: 12-13

Location: Westbound I-270 past Northbound I-170

Event Detail: Police Investigation for a shooting resulting in a two-vehicle crash and a secondary crash.

TMC personnel overheard emergency units being dispatched to a crash on Westbound I-270 west of I-170 while actively monitoring scanner traffic. A driver of a passenger vehicle was fatally shot. The vehicle was hit numerous times causing the driver to lose control and collide with a tractor trailer. The driver was pronounced at the scene. All westbound lanes of the interstate were closed while the Major Case Squad investigated the homicide. Traffic queued 2.5 miles.



EXECUTIVE SUMMARY

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Top 5 Congestion Locations / December 2018 – February 2019 vs. December 2019 – February 2020

***Locations ranked on Weighted Total Impact (Raw speed drop weighted by Vehicle Miles Traveled VMT Factor)**

| | Congestion Locations 2018-19 | *Weighted Total Impact | Average Queue Length Miles | Average Daily Duration | Total Duration |
|---|--------------------------------------|------------------------|----------------------------|------------------------|----------------|
| 1 | NB I-270 @ MO 100 Manchester Road | 57,787,496 | 6.02 | 37m | 2d 8h 26m |
| 2 | SB I-170 @ Galleria Parkway | 47,527,204 | 1.53 | 2h 4m | 7d 18h 36m |
| 3 | SB I-270 @ Dougherty Ferry | 47,422,733 | 6.27 | 27m | 1d 16h 42m |
| 4 | WB I-44 @ Jamieson Avenue | 46,411,915 | 1.9 | 1h 39 m | 6d 4h 51m |
| 5 | EB I-64 @ Big Bend Boulevard | 43,571,310 | 3.07 | 1h 4 m | 4d 13m |

| | Congestion Locations 2019-20 | *Weighted Total Impact | Average Queue Length Miles | Average Daily Duration | Total Duration |
|---|--------------------------------------|------------------------|----------------------------|------------------------|----------------|
| 1 | NB I-270 @ MO 100 Manchester Road | 58,808,289 | 6.4 | 40m | 2d 12h 48m |
| 2 | EB I-44 @ Highway Drive Exit 275 | 56,013,194 | 1.95 | 3h 1m | 11d 11h 18m |
| 3 | NB I-270 @ Dougherty Ferry | 48,466,870 | 5.35 | 41m | 13d 6h 47m |
| 4 | SB I-270 @ Dougherty Ferry | 47,865,705 | 6.02 | 30 m | 5d 5h 30m |
| 5 | WB I-64 @ Clayton Road | 43,828,958 | 2.32 | 1h 39m | 6d 6h 33m |

Average Incident Duration Comparison / 2018-19 vs. 2019-20

| Month | Average Incident Duration (Minutes : Seconds) | 2018 | 2019 |
|----------|--|-------|-------|
| December | Lane Clearance | 27:45 | 28:53 |
| December | Incident Clearance | 33:07 | 32:52 |
| Month | Average Incident Duration | 2019 | 2020 |
| January | Lane Clearance | 39:31 | 28:38 |
| January | Incident Clearance | 31:03 | 33:49 |
| February | Lane Clearance | 29:38 | 27:07 |
| February | Incident Clearance | 33:34 | 31:42 |

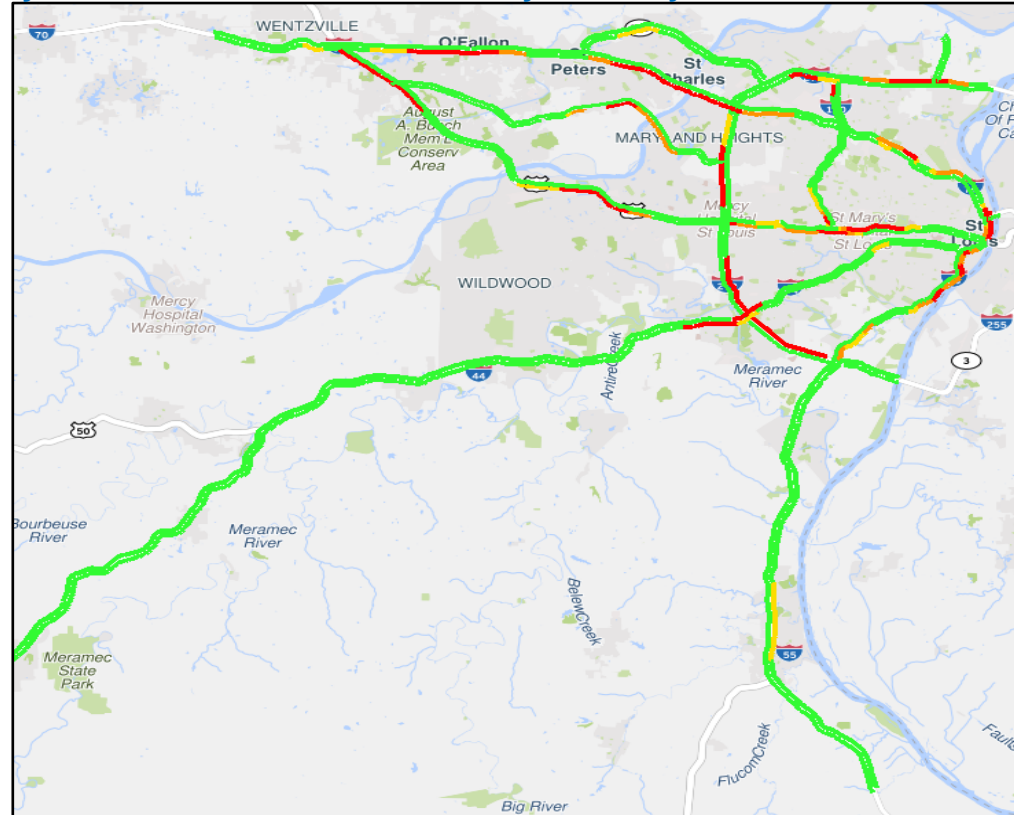
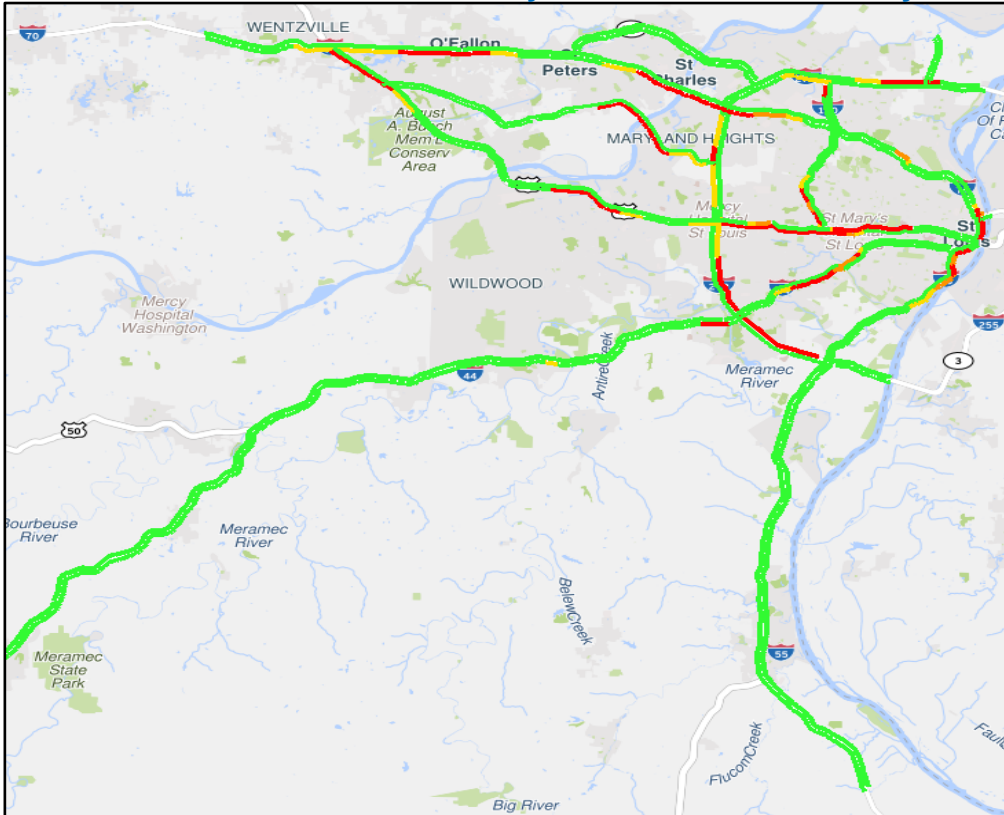


FREEWAY MANAGEMENT

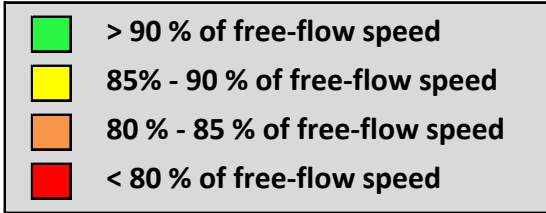
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SLIGHT DECREASE in Overall AM Mobility

AM Peak Mobility December 2018/January/February 2019 vs December 2019/January/February 2020 *



2018-19



Regional % of free-flow speed hourly breakdown**:

| | 2018-19 | | | 2019-20 | |
|------|---------|---|-------|---------|--|
| 6 AM | 100% | → | 100% | | |
| 7 AM | 94.0% | → | 93.8% | | |
| 8 AM | 95.2% | → | 94.8% | | |
| 9 AM | 100% | → | 100% | | |

2019-20

* 7am hour shown

**Regional % of free-flow speed is the averaged % of free-flow speeds for all directions of all freeways within the St. Louis District. This provides a high-level measurement of overall regional mobility for each peak hour.

Highlighted Corridor AM Summary I-55

Comparing AM December 2018/January/February 2019 vs December 2019/January/February 2020

NB I-55 AM Overall Mobility DECREASED for the AM peak from 2018-2019 → 2019-2020. Mobility decreased during the 6am and 7am hours, but the 8am hour saw a slight +1.2% increase in mobility.

SB I-55 AM Overall Mobility INCREASED for the AM peak from 2018-2019 → 2019-2020. Slight increase in mobility during the 8am and 9am hours.



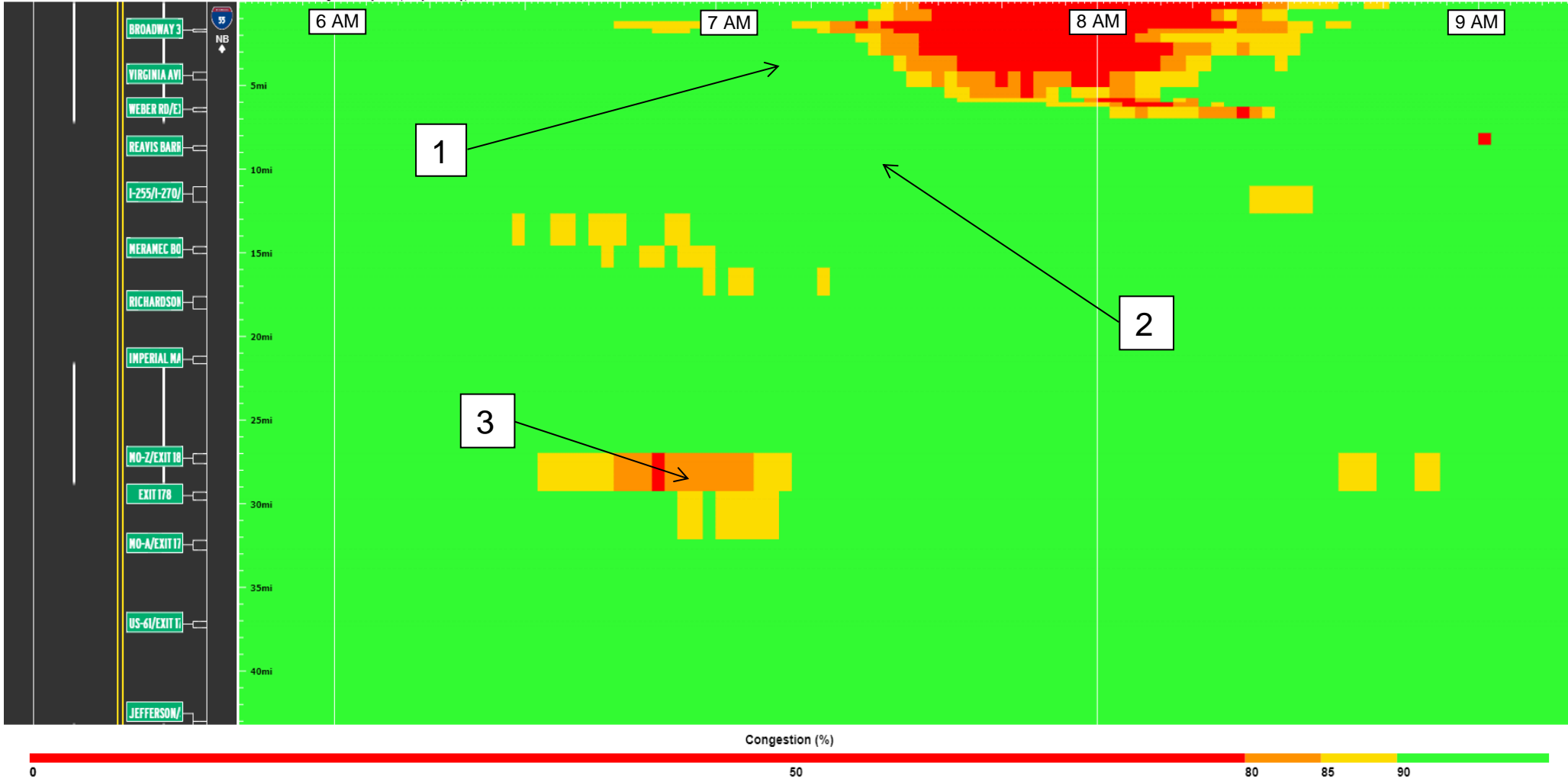
FREEWAY MANAGEMENT

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AM 2018-19 NB I-55

Congestion for I-55 Northbound between Jefferson/Ste Genevieve Co Line and I-44/I-55/Gravois/Exit 207 using HERE data
Averaged by 2 minutes for December 2018 through February 2019 (Every weekday)

December 2018 through February 2019 (Every weekday)

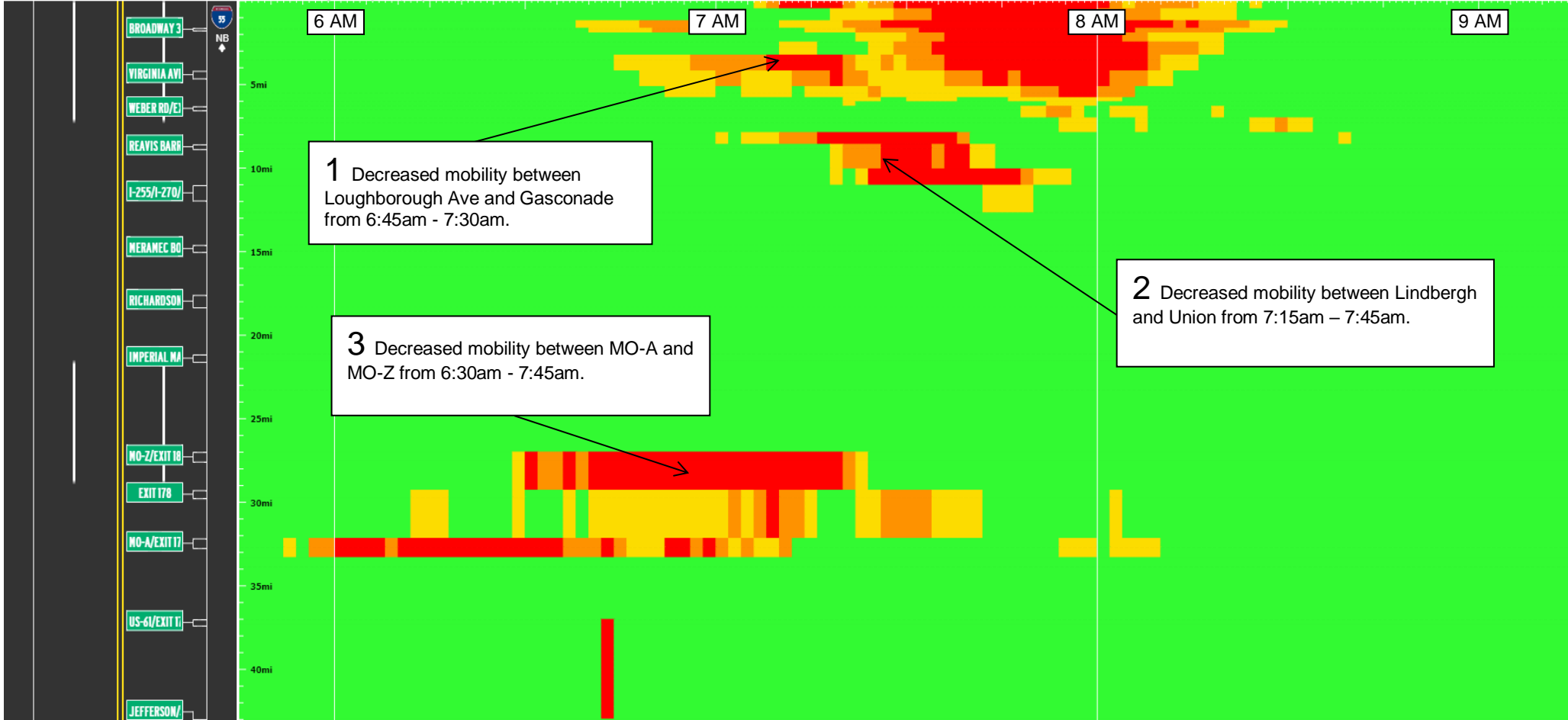


AM 2019-20 NB I-55

Congestion for I-55 Northbound between Jefferson/Ste Genevieve Co Line and I-44/I-55/Gravois/Exit 207 using HERE data

Averaged by 2 minutes for December 2019 through February 2020 (Every weekday)

December 2019 through February 2020 (Every weekday)



Congestion (%)

0

50

80

85

90



FREEWAY MANAGEMENT

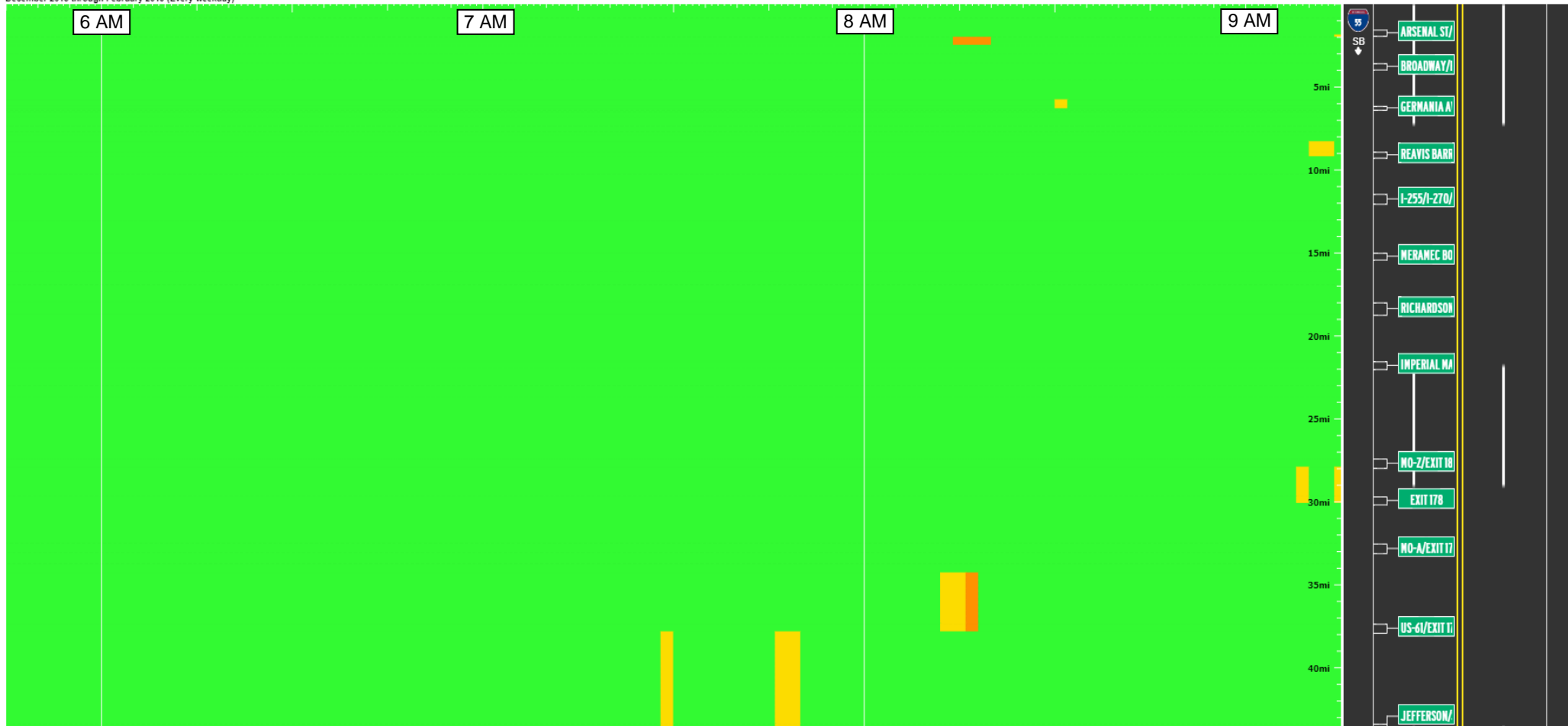
ST. LOUIS DISTRICT ■ QUARTERLY REGIONAL MOBILITY REPORT ■ DECEMBER 2019 / JANUARY / FEBRUARY 2020

AM 2018-19 SB I-55

Congestion for I-55 Southbound between Jefferson/Ste Genevieve Co Line and I-44/I-55/Gravois/Exit 207 using HERE data

Averaged by 2 minutes for December 2018 through February 2019 (Every weekday)

December 2018 through February 2019 (Every weekday)



Congestion (%)

0

50

80

85

90

10



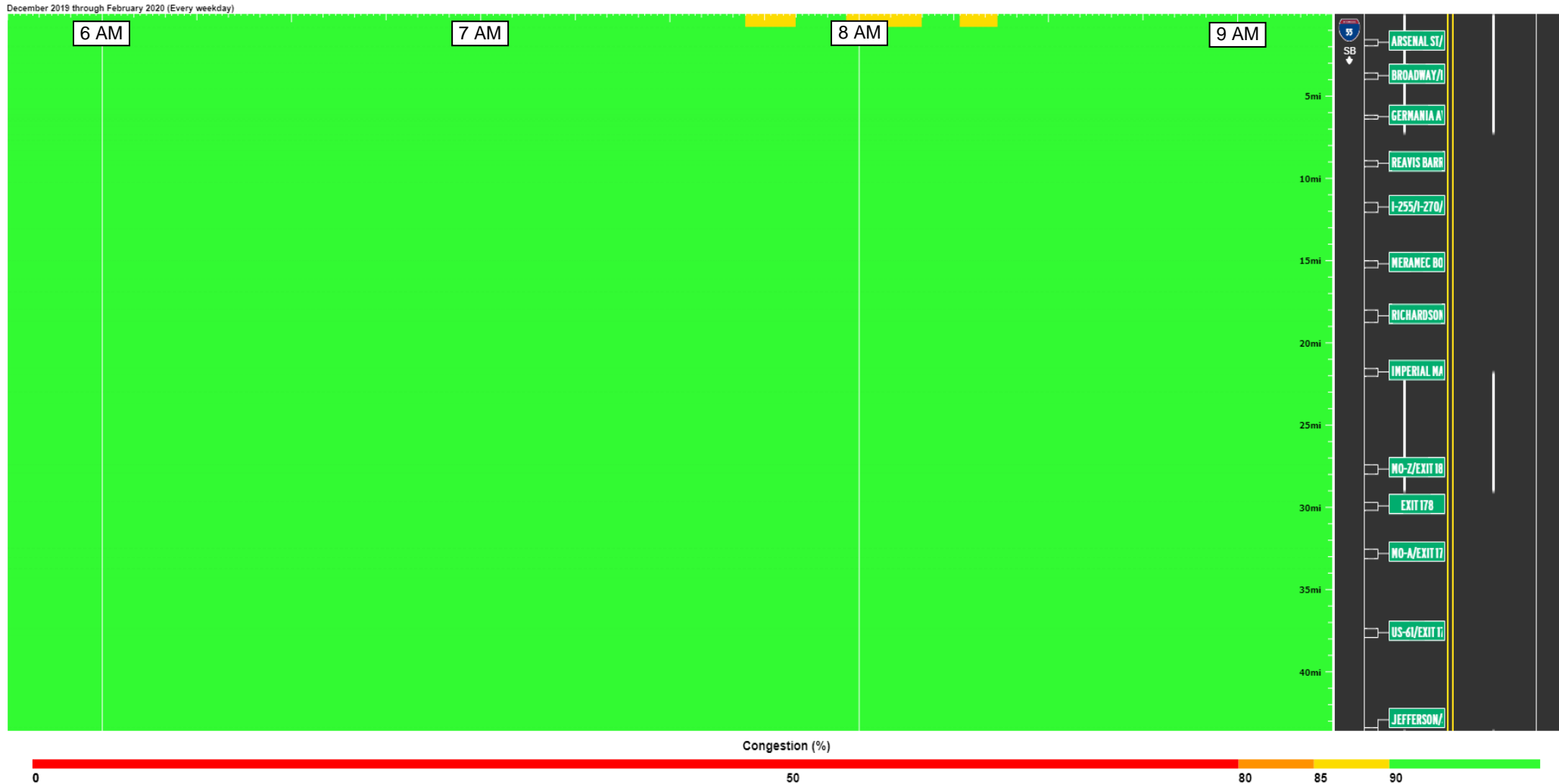


FREEWAY MANAGEMENT

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AM 2019-20 SB I-55

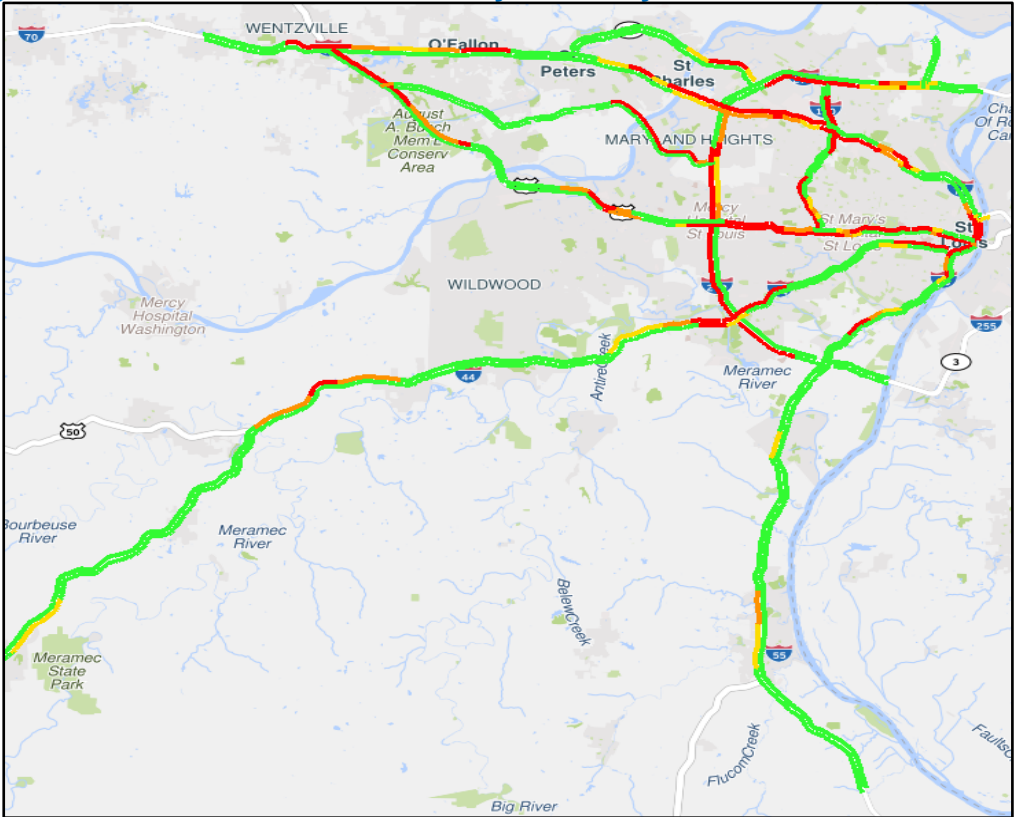
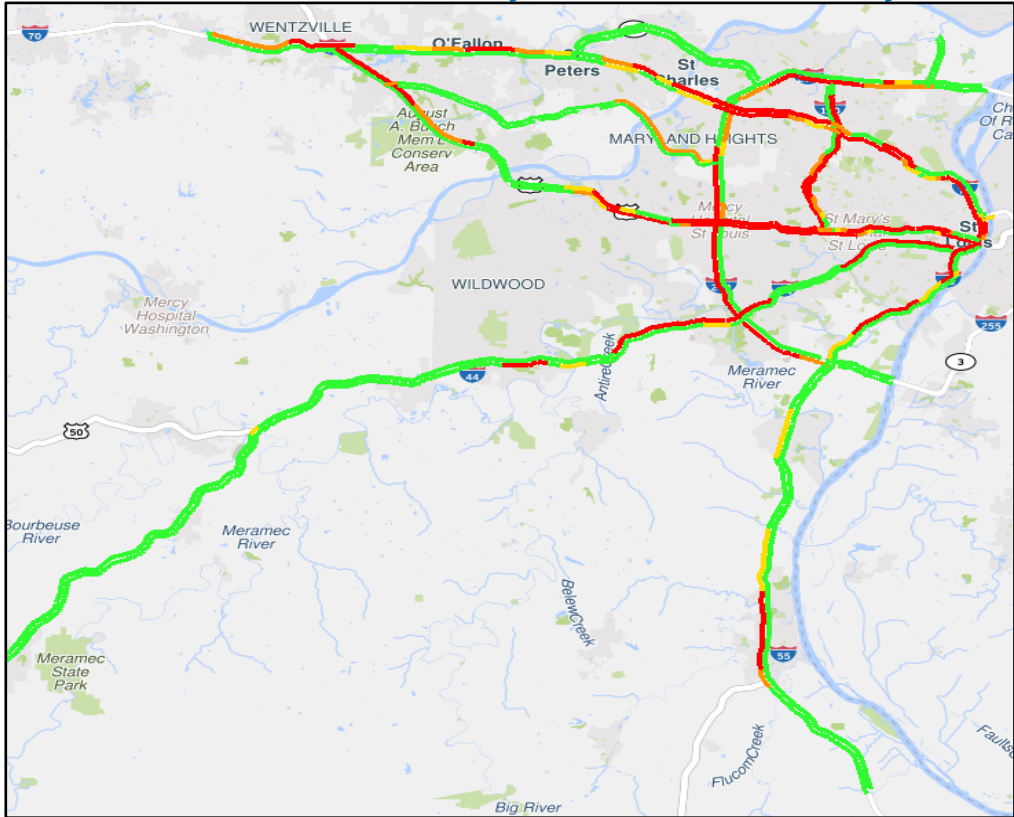
Congestion for I-55 Southbound between Jefferson/Ste Genevieve Co Line and I-44/I-55/Gravois/Exit 207 using HERE data
Averaged by 2 minutes for December 2019 through February 2020 (Every weekday)



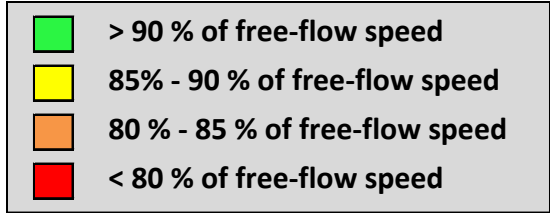


INCREASE in Overall PM Mobility

PM Peak Mobility December 2018/January/February 2019 vs December 2019/January/February 2020 *



2018-19



Regional % of free-flow speed hourly breakdown**:

| | 2018-19 | → | 2019-20 |
|------|---------|---|---------|
| 3 PM | 95.3% | → | 97.7% |
| 4 PM | 87.9% | → | 90.8% |
| 5 PM | 85.0% | → | 87.6% |
| 6 PM | 95.5% | → | 97.7% |
| 7 PM | 99.5% | → | 100% |

2019-20

* 5pm hour shown

**Regional % of free-flow speed is the averaged % of free-flow speeds for all directions of all freeways within the St. Louis District. This provides a high-level measurement of overall regional mobility for each peak hour.

Highlighted Corridor PM Summary I-55

Comparing PM December 2018/January/February 2019 vs December/January/February 2020

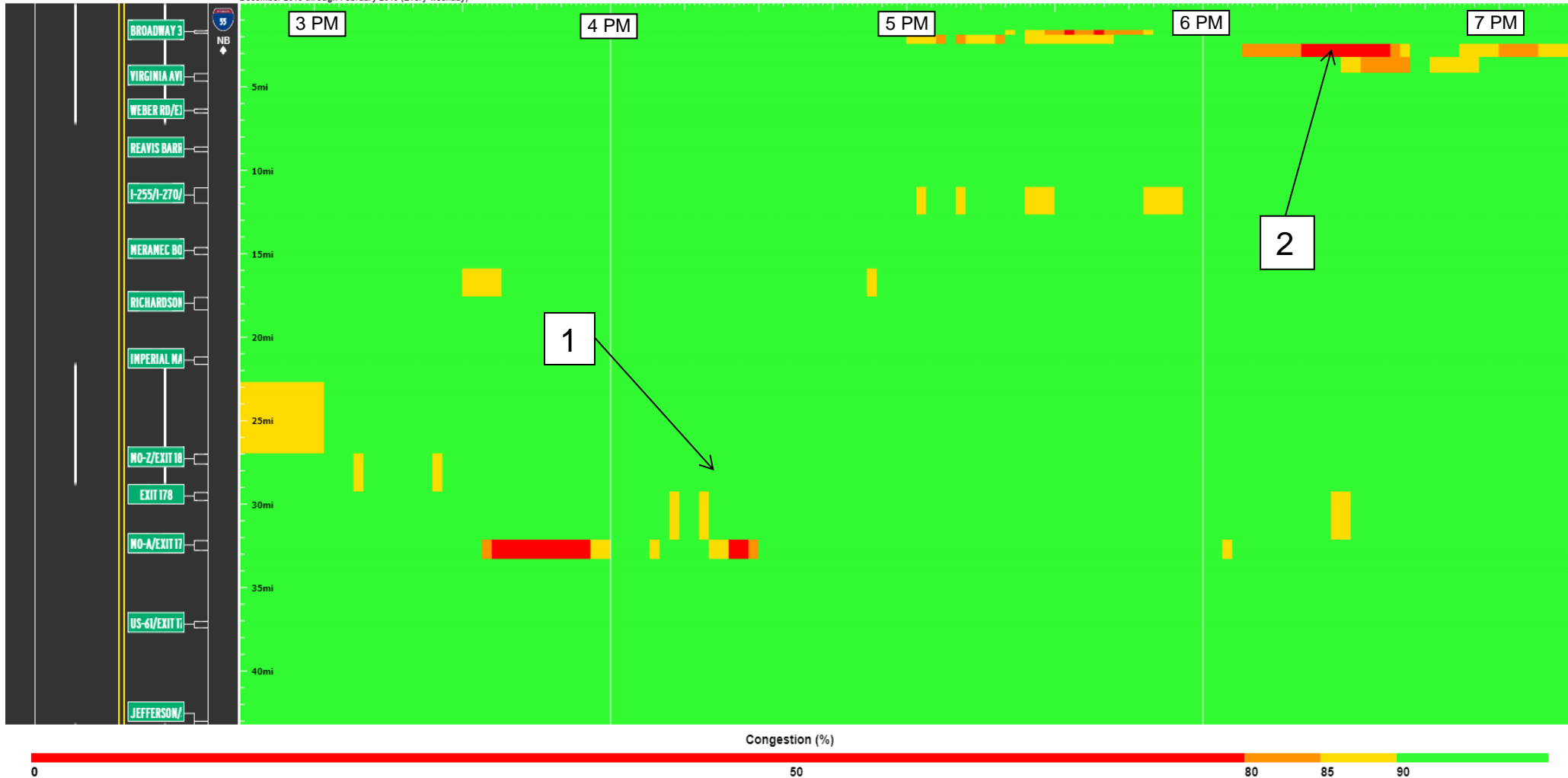
NB I-55 PM Overall Mobility INCREASED from 2018-2019 → 2019-2020, except during the 1pm and 2pm hours which saw a -1.9% and -1.2% decrease in mobility.

SB I-55 PM Overall Mobility INCREASED throughout the PM peak from 2018-2019 → 2019-2020 with the largest increase occurring during the 6pm hour (+6.6% increase in mobility).

PM 2018-19 NB I-55

Congestion for I-55 Northbound between Jefferson/Ste Genevieve Co Line and I-44/I-55/Gravois/Exit 207 using HERE data
 Averaged by 2 minutes for December 2018 through February 2019 (Every weekday)

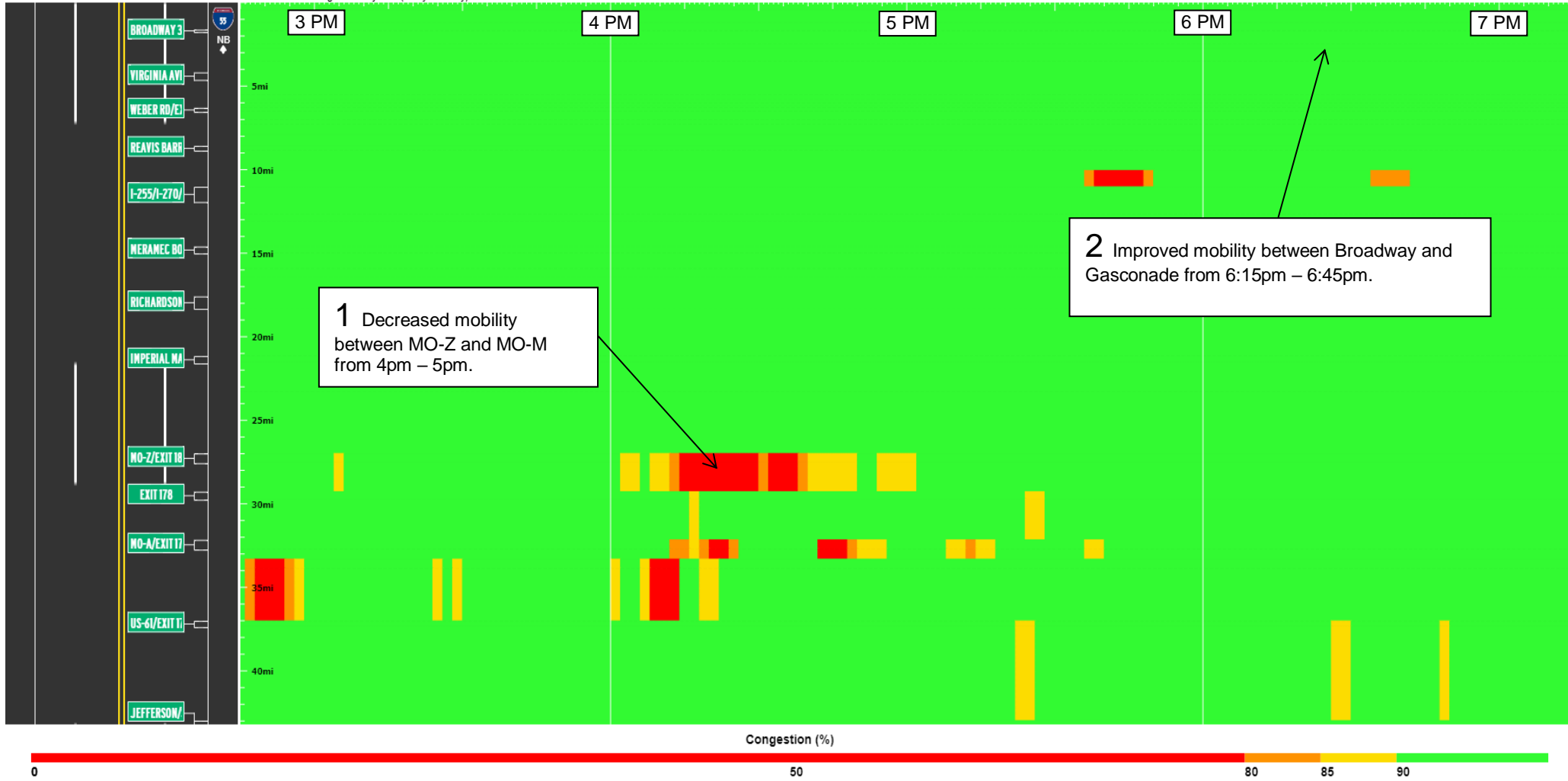
December 2018 through February 2019 (Every weekday)



PM 2019-20 NB I-55

Congestion for I-55 Northbound between Jefferson/Ste Genevieve Co Line and I-44/I-55/Gravois/Exit 207 using HERE data
 Averaged by 2 minutes for December 2019 through February 2020 (Every weekday)

December 2019 through February 2020 (Every weekday)



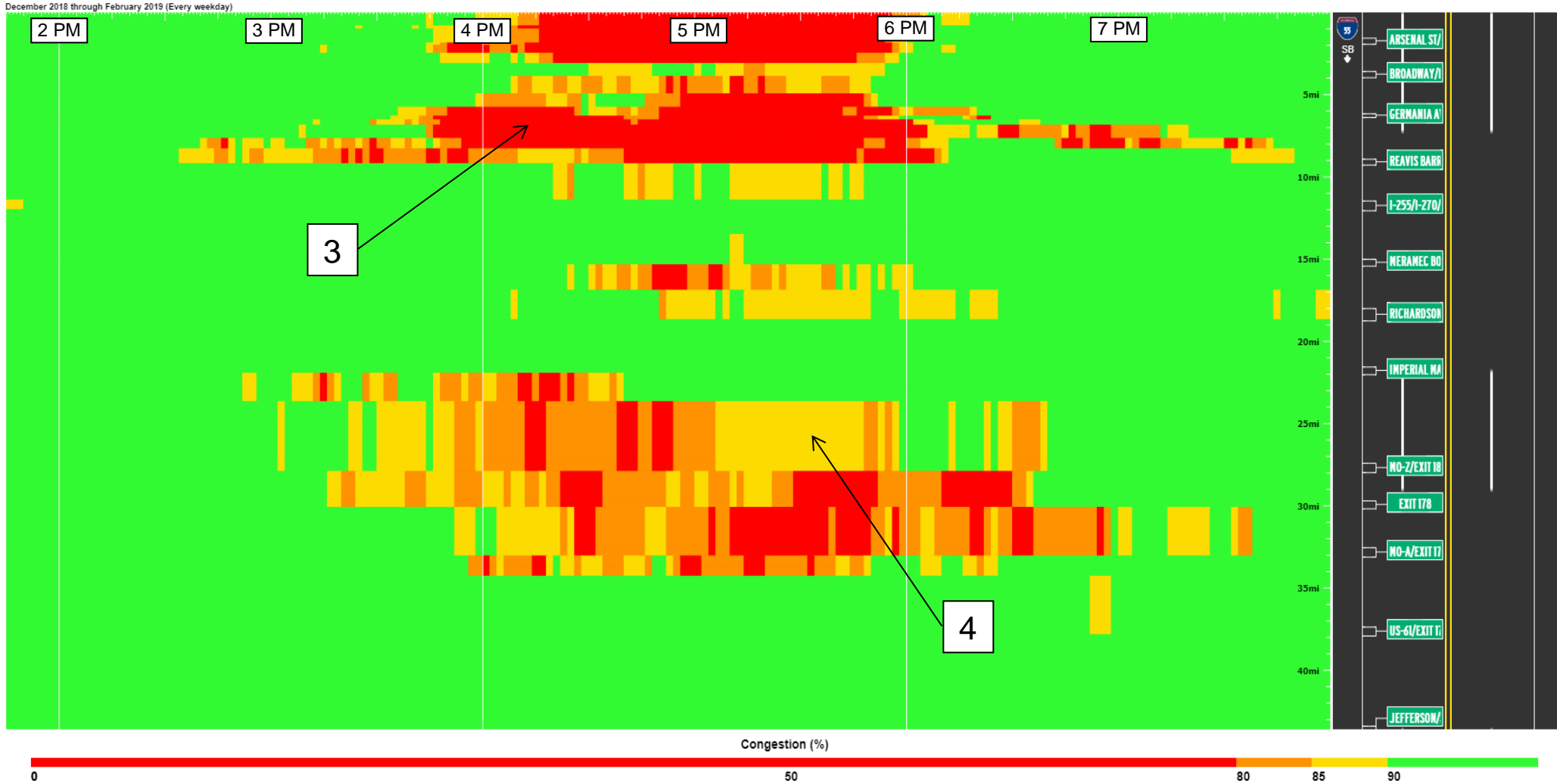


FREEWAY MANAGEMENT

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PM 2018-19 SB I-55

Congestion for I-55 Southbound between Jefferson/Ste Genevieve Co Line and I-44/I-55/Gravois/Exit 207 using HERE data
Averaged by 2 minutes for December 2018 through February 2019 (Every weekday)



3

4



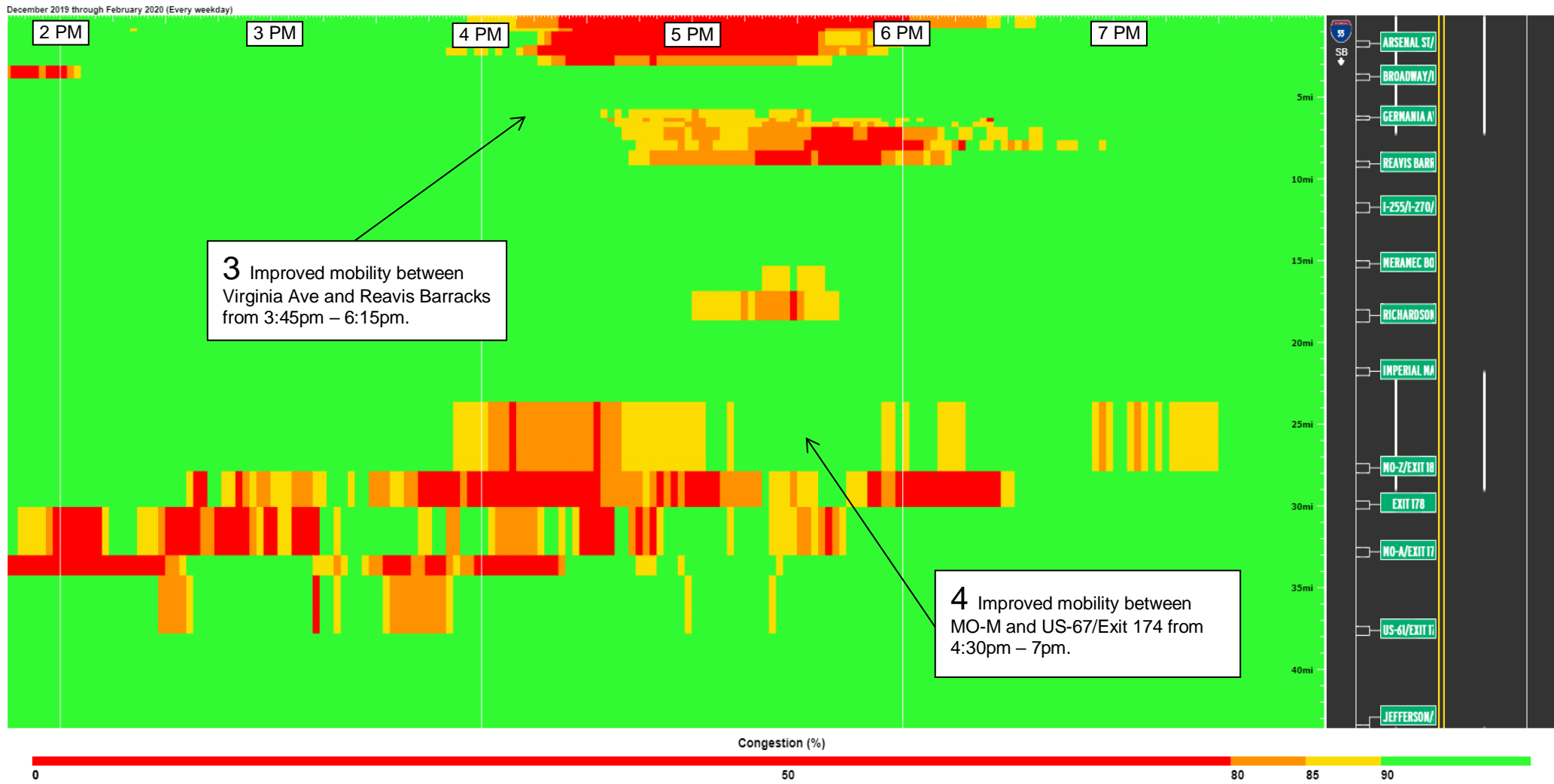
FREEWAY MANAGEMENT

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PM 2019-20 SB I-55

Congestion for I-55 Southbound between Jefferson/Ste Genevieve Co Line and I-44/I-55/Gravois/Exit 207 using HERE data

Averaged by 2 minutes for December 2019 through February 2020 (Every weekday)





WORK ZONE MANAGEMENT

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TMC Observed Work Zones

| | December 2019 | January 2020 | February 2019 |
|-----------------------------|----------------------|----------------------|----------------------|
| Level of Travel Time Impact | Number of Work Zones | Number of Work Zones | Number of Work Zones |
| Major Impact | 5 | 0 | 11 |
| Moderate Impact | 7 | 4 | 13 |
| Minor Impact | 132 | 134 | 141 |
| Total | 144 | 138 | 165 |



WORK ZONE MANAGEMENT

ST. LOUIS DISTRICT ■ QUARTERLY REGIONAL MOBILITY REPORT ■ DECEMBER 2019 / JANUARY / FEBRUARY 2020



Additional Travel Time Impacts through Work Zones

Major Impact (15 Minutes or Above): # Moderate Impact (10-14 Minutes): # # #

(Daily) Westbound I-44 at I-270 3 8

- New bridge construction
- All mitigation efforts were in use
- RTIS data recorded additional travel times up to 29 minutes during non-peak hours

(Daily) Eastbound I-44 at I-270 7 6

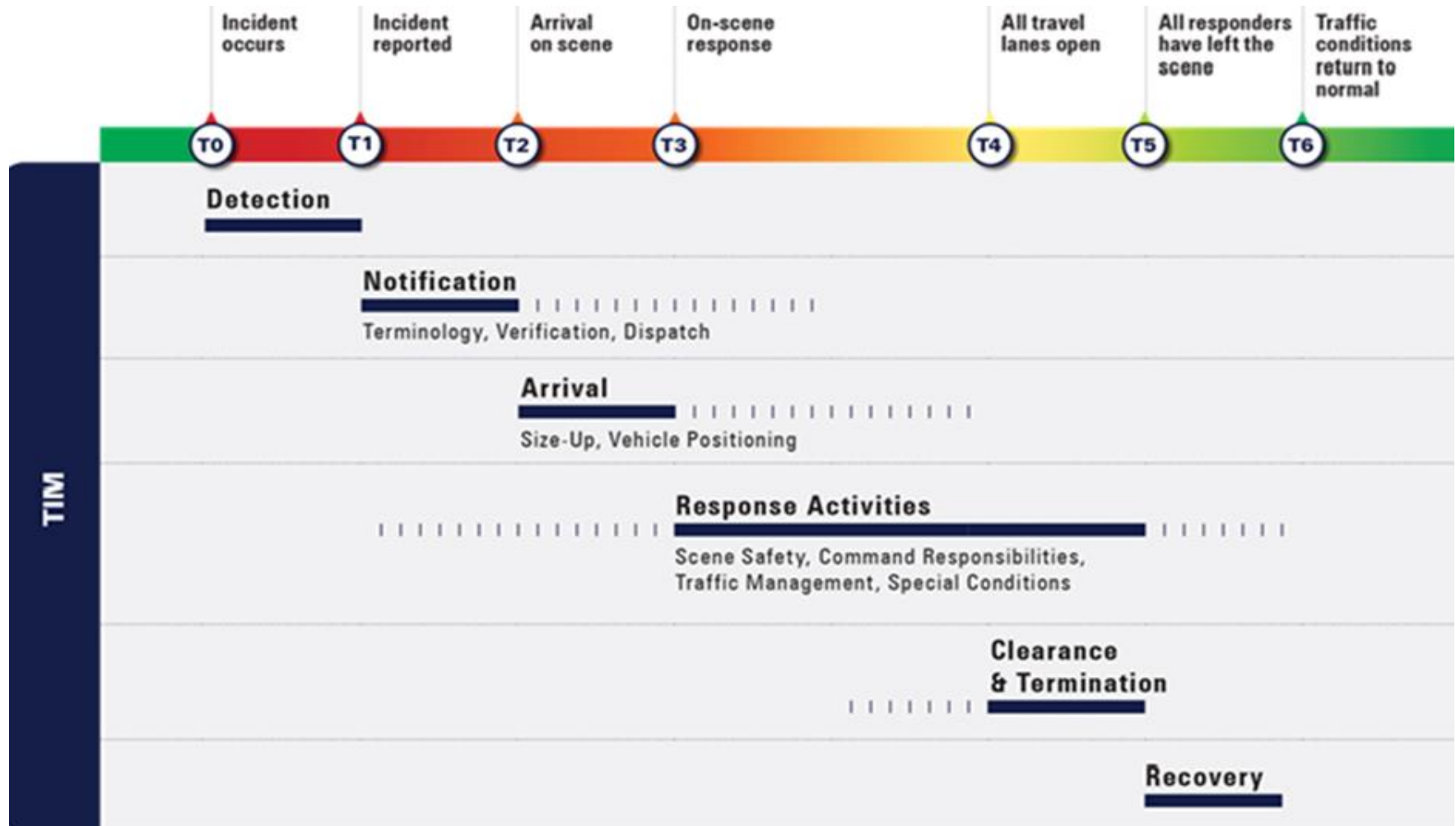
- New bridge construction
- All mitigation efforts were in use
- RTIS data recorded additional travel times of up to 23 minutes during non-peak hours

(Daily) Eastbound I-70 at Blanchette Bridge 3 6

- Preparation for bridge rehabilitation construction pin replacement
- All mitigation efforts were in use
- RTIS data recorded additional travel times up to 52 minutes

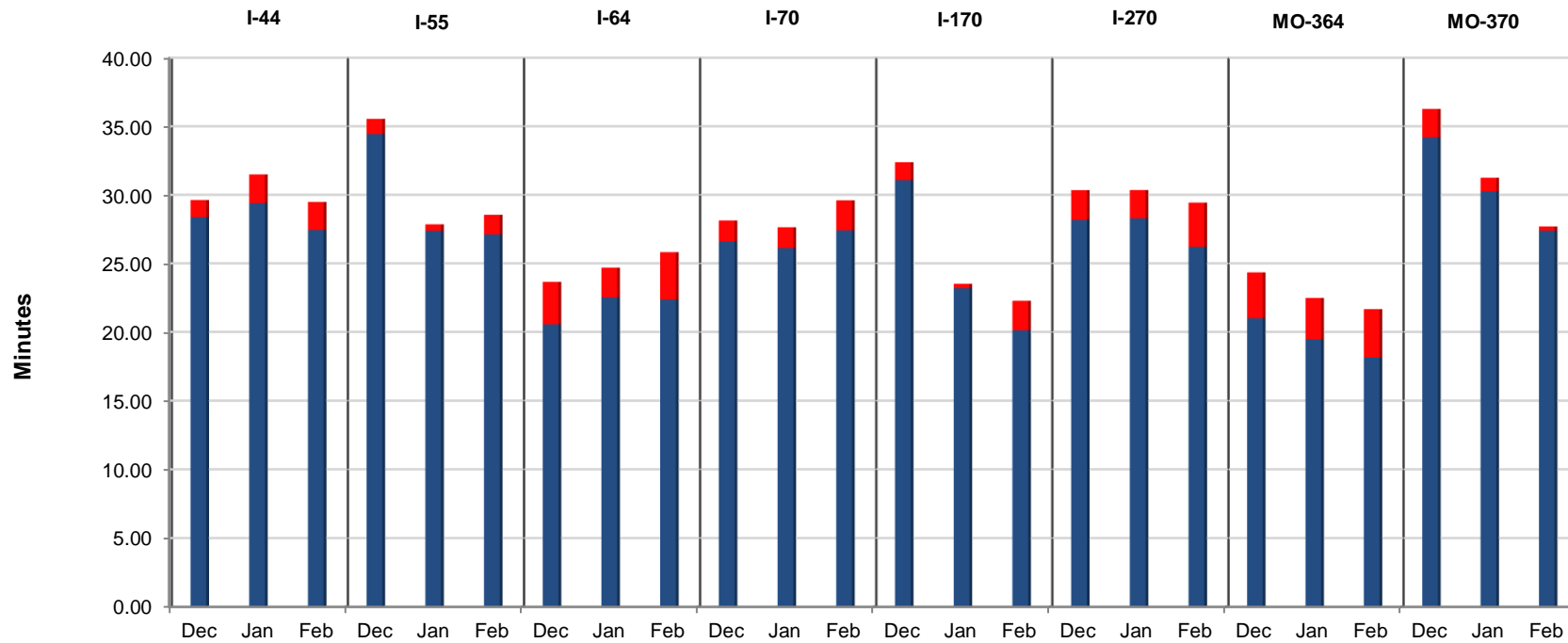
(Daily) Westbound I-70 at Blanchette Bridge 3 4

- Preparation for bridge rehabilitation construction pin replacement
- All mitigation efforts were in use
- RTIS data recorded additional travel times up to 31 minutes





December 2019 / January / February 2020 Incidents Summary



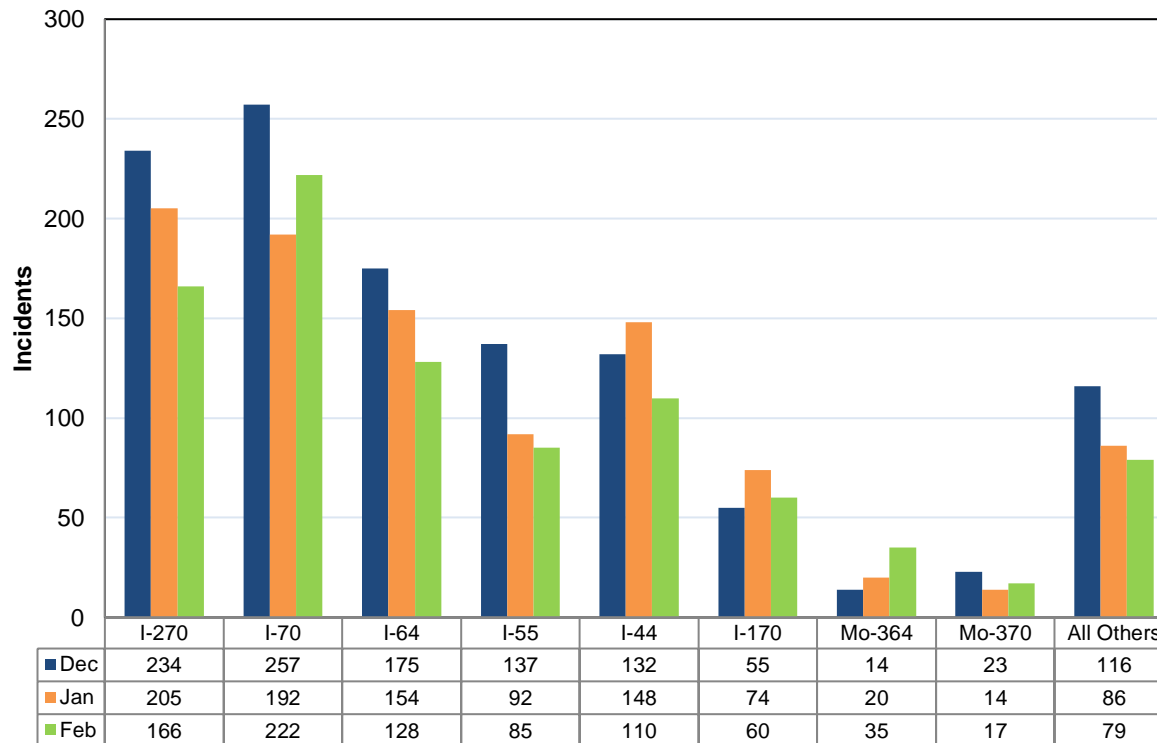
■ Average Time for Backup to Clear = T6 - T4

■ Average Time to Clear Incident from Lanes = T4 - T1



Total Number of Incidents: / December: 1143 / January: 985 / February: 902

Total Number of Lane Blocking Incidents



Major Impact Incidents

| Dec | Jan | Feb |
|-----|-----|-----|
| (3) | (0) | (4) |

Fatal Incidents

| Dec | Jan | Feb |
|-----|-----|-----|
| (7) | (6) | (5) |

Tractor Trailer Incidents

| Dec | Jan | Feb |
|------|------|------|
| (93) | (63) | (58) |



INCIDENT MANAGEMENT

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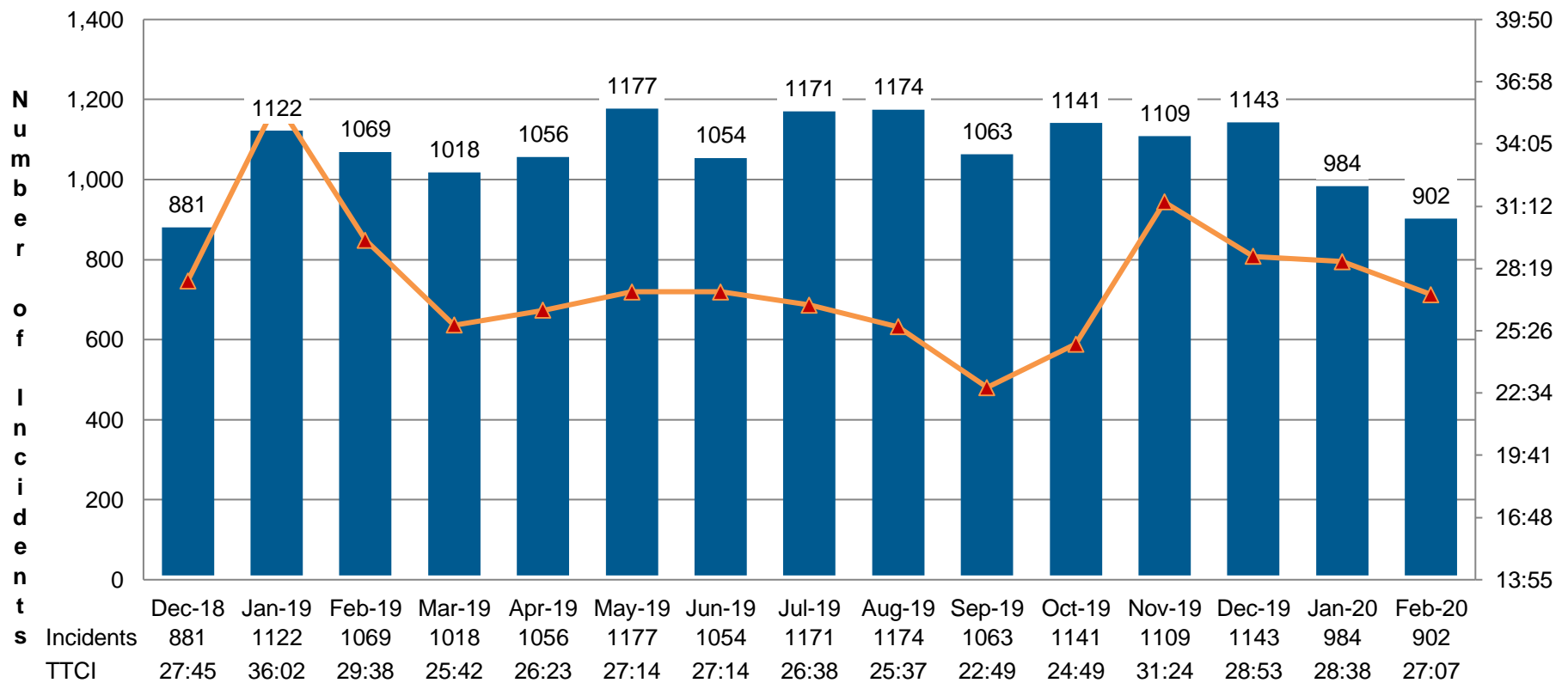
Lane Blocking Incidents by Freeway December 2019, January and February 2020

| Interstate | Month | Number of Incidents | Average Time to Clear Incident from Lanes =T4 - T1 | Average Time for Backup to Clear = T6 -T4 | Freeway Miles | Incidents per Mile |
|------------|-------------|---------------------|--|---|---------------|--------------------|
| I-44 | December | 132 | 28:37 | 01:25 | 33 | 4.00 |
| I-44 | January | 148 | 29:39 | 02:10 | 33 | 4.48 |
| I-44 | February | 110 | 27:44 | 02:04 | 33 | 3.33 |
| I-55 | December | 137 | 34:43 | 01:11 | 23 | 5.96 |
| I-55 | January | 92 | 27:37 | 00:48 | 23 | 4.00 |
| I-55 | February | 85 | 27:11 | 01:43 | 23 | 3.70 |
| I-64 | December | 175 | 20:55 | 03:10 | 40 | 4.38 |
| I-64 | January | 154 | 22:52 | 02:17 | 40 | 3.85 |
| I-64 | February | 128 | 22:36 | 03:46 | 40 | 3.20 |
| I-70 | December | 257 | 26:59 | 01:54 | 38 | 6.76 |
| I-70 | January | 192 | 26:12 | 01:51 | 38 | 5.05 |
| I-70 | February | 222 | 27:40 | 02:19 | 38 | 5.84 |
| I-170 | December | 55 | 31:07 | 01:31 | 11 | 5.00 |
| I-170 | January | 74 | 23:19 | 00:32 | 11 | 6.73 |
| I-170 | February | 60 | 20:12 | 02:15 | 11 | 5.45 |
| I-270 | December | 234 | 28:16 | 02:18 | 36 | 6.50 |
| I-270 | January | 205 | 28:28 | 02:07 | 36 | 5.69 |
| I-270 | February | 166 | 26:20 | 03:23 | 36 | 4.61 |
| MO-364 | December | 14 | 21:00 | 03:34 | 11 | 1.27 |
| MO-364 | January | 20 | 19:45 | 03:03 | 11 | 1.82 |
| MO-364 | February | 35 | 18:13 | 03:53 | 11 | 3.18 |
| MO-370 | December | 23 | 34:18 | 02:08 | 13 | 1.77 |
| MO-370 | January | 14 | 30:25 | 01:00 | 13 | 1.08 |
| MO-370 | February | 17 | 27:38 | 00:31 | 13 | 1.31 |
| Total | Dec/Jan/Feb | 2749 | 26:19 | 02:07 | 615 | 4.47 |



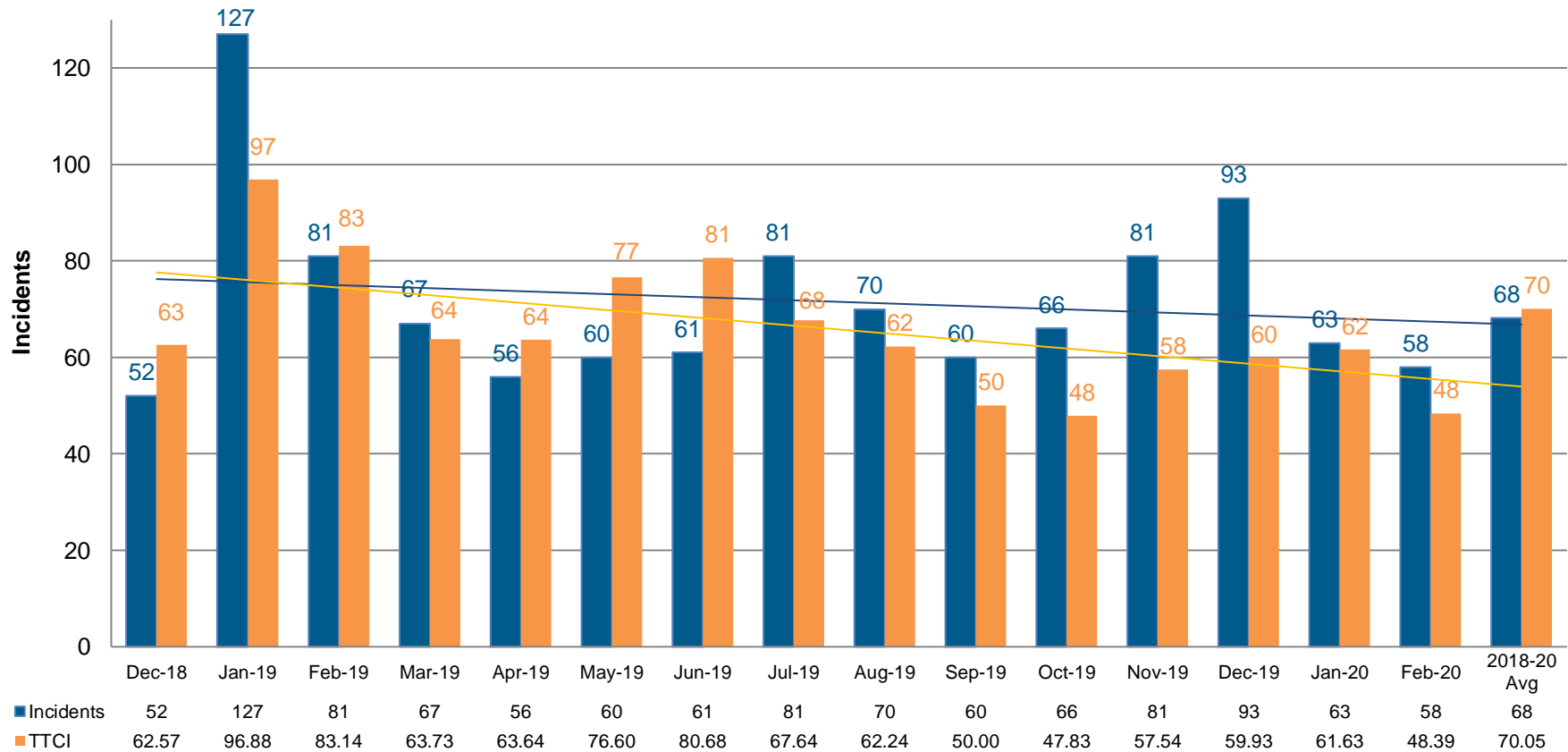
Number of Incidents and Time to Clear Lanes

Time to Clear Incidents





Number of Tractor Trailer Incidents / Time to Clear





INCIDENT MANAGEMENT

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2019 Tractor Trailer Incidents by Route

| 2019 | I-44 | I-55 | I-64 | I-70 | I-170 | I-255/I-270 | Route 364 | Route 370 | Other | Total |
|---------------------|------------|------------|-----------|------------|-----------|-------------|-----------|-----------|-----------|------------|
| Jan | 32 | 11 | 23 | 35 | 4 | 13 | 1 | 2 | 6 | 127 |
| Feb | 22 | 10 | 6 | 24 | 2 | 14 | 0 | 2 | 1 | 81 |
| Mar | 19 | 5 | 5 | 15 | 0 | 15 | 1 | 3 | 4 | 67 |
| Apr | 20 | 3 | 8 | 14 | 1 | 5 | 0 | 0 | 5 | 56 |
| May | 18 | 4 | 8 | 16 | 0 | 13 | 0 | 0 | 1 | 60 |
| Jun | 22 | 5 | 6 | 12 | 0 | 12 | 0 | 2 | 2 | 61 |
| Jul | 28 | 10 | 10 | 15 | 1 | 13 | 0 | 0 | 4 | 81 |
| Aug | 20 | 10 | 6 | 15 | 1 | 12 | 0 | 2 | 4 | 70 |
| Sep | 16 | 9 | 5 | 16 | 1 | 10 | 0 | 2 | 1 | 60 |
| Oct | 21 | 6 | 4 | 15 | 2 | 16 | 0 | 0 | 2 | 66 |
| Nov | 11 | 6 | 5 | 31 | 1 | 19 | 0 | 4 | 4 | 81 |
| Dec | 25 | 22 | 11 | 18 | 1 | 14 | 0 | 1 | 1 | 93 |
| Yearly Total | 254 | 101 | 97 | 226 | 14 | 156 | 2 | 18 | 35 | 903 |



INCIDENT MANAGEMENT

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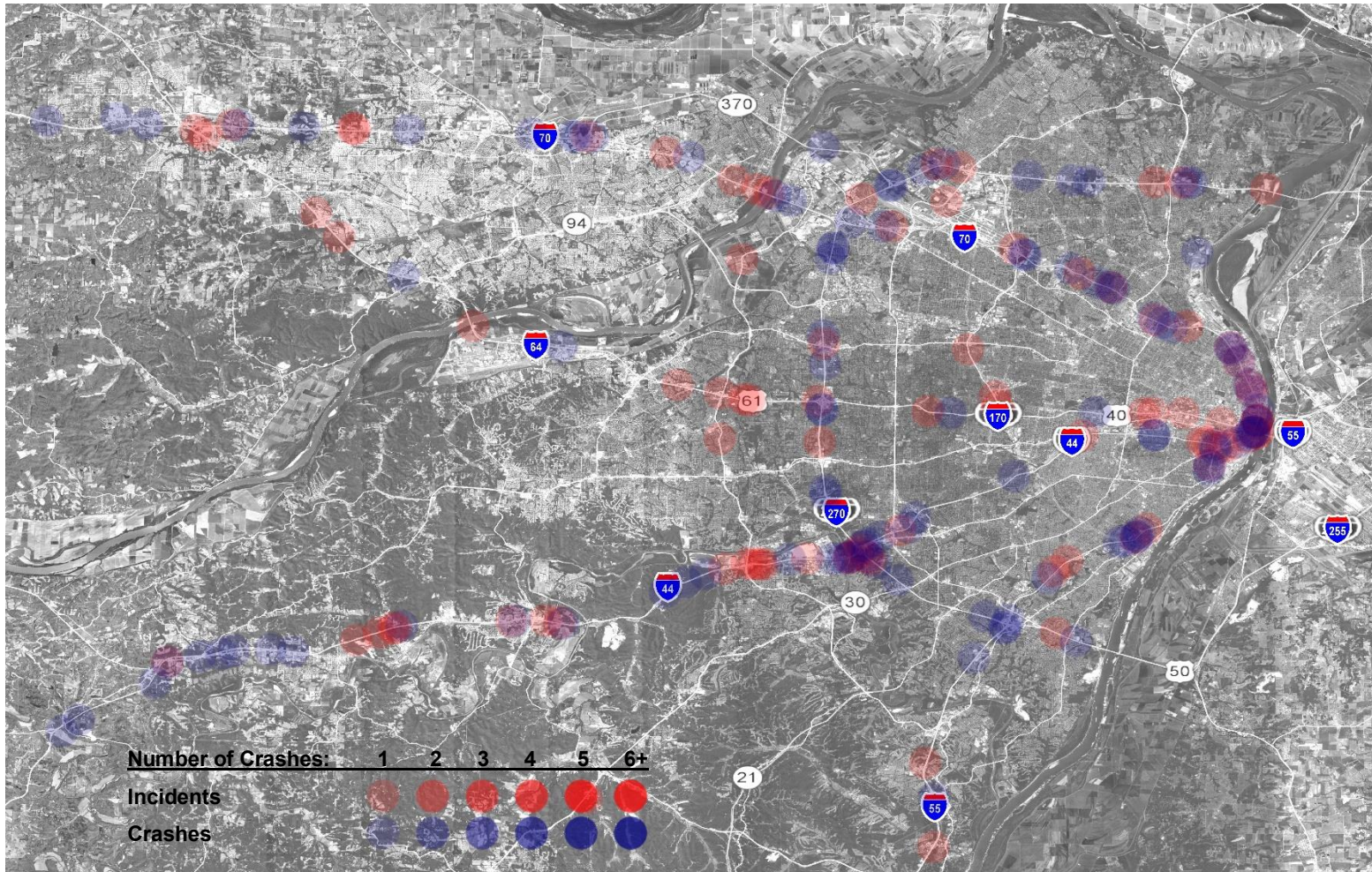


2020 Tractor Trailer Incidents by Route

| 2020 | I-44 | I-55 | I-64 | I-70 | I-170 | I-255/I-270 | Route 364 | Route 370 | Other | Total |
|---------------------|-----------|-----------|-----------|-----------|----------|-------------|-----------|-----------|----------|------------|
| Jan | 21 | 6 | 9 | 14 | 2 | 11 | 0 | 0 | 0 | 63 |
| Feb | 21 | 6 | 4 | 14 | 0 | 9 | 0 | 0 | 4 | 58 |
| Mar | | | | | | | | | | |
| Apr | | | | | | | | | | |
| May | | | | | | | | | | |
| Jun | | | | | | | | | | |
| Jul | | | | | | | | | | |
| Aug | | | | | | | | | | |
| Sep | | | | | | | | | | |
| Oct | | | | | | | | | | |
| Nov | | | | | | | | | | |
| Dec | | | | | | | | | | |
| Yearly Total | 42 | 12 | 13 | 28 | 2 | 20 | 0 | 0 | 4 | 121 |

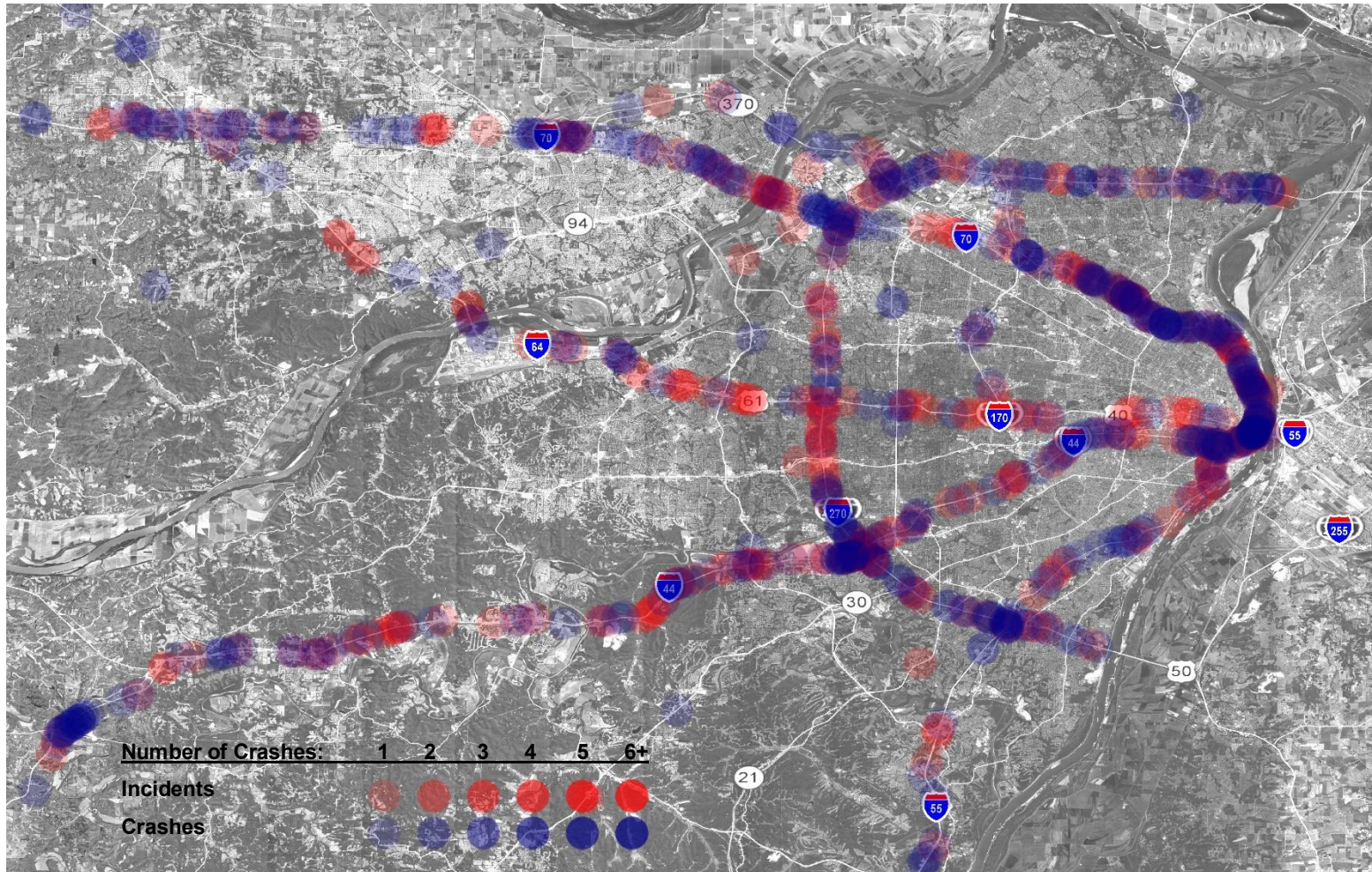


December 2019/January/February 2020 Tractor Trailer Incidents





January 2019 – December 2019 Tractor Trailer Incidents Map





INCIDENT MANAGEMENT

ST. LOUIS DISTRICT ■ QUARTERLY REGIONAL MOBILITY REPORT ■ DECEMBER 2019 / JANUARY / FEBRUARY 2020



Incidents over Two Hours December 2019 / January / February 2020

Incidents in red denote high mobility impact

| # | Date & Time | Day of Week | Route | Location | Description | Duration HH/MM |
|----|------------------|-------------|----------|------------------------------------|--|----------------|
| 1 | 12/3/2019 20:02 | Tuesday | E 340 MO | E WILSON AVE CST | Crash with two trees knocked down in roadway | 2:15 |
| 2 | 12/6/2019 9:33 | Friday | I-70 EB | AT CONVENTION CENTER BLVD | Broken airline on tractor trailer drivers attempt to fix it failed and MSHP convinced him to call heavy tow | 2:08 |
| 3 | 12/10/2019 6:16 | Tuesday | I-170 NB | PAST AIRPORT RD | Multi-vehicle crash; two individuals fled scene with multiple tows and debris scattered across lanes | 2:15 |
| 4 | 12/10/2019 21:13 | Tuesday | I-44 WB | AT I-55 | Overtaken tractor trailer that had to be up righted | 3:14 |
| 5 | 12/10/2019 21:18 | Tuesday | I-55 NB | TO I-44 WB | Police blocked lanes for up righting tractor trailer | 3:01 |
| 6 | 12/10/2019 23:42 | Tuesday | I-44 WB | AT I-270 | Fatal crash with ejection in the work zone | 2:45 |
| 7 | 12/10/2019 23:48 | Tuesday | I-270 SB | TO I-44 WB | Emergency vehicles blocked ramp for fatal crash on WB I-44 at SB I-270 | 2:38 |
| 8 | 12/11/2019 1:24 | Wednesday | I-64 EB | ON RAMP FROM I-44 EB | Overtaken tractor trailer hauling strawberries spilled load on roadway | 3:20 |
| 9 | 12/11/2019 3:21 | Wednesday | I-55 NB | AT I-255 | Tractor trailer crash into median wall with driver injured and heavy tow required to remove vehicle | 2:31 |
| 10 | 12/11/2019 9:01 | Wednesday | 340 MO | E CHESTERFIELD PKWY WEST CST | Powerlines down across roadway | 4:09 |
| 11 | 12/13/2019 7:00 | Friday | I-70 WB | BEFORE I-170 | Fatal multi-vehicle crash with use of antiquated reconstruction tools because of proximity to airport and need for commercial motor vehicle inspection | 5:34 |
| 12 | 12/13/2019 11:21 | Friday | I-270 WB | PAST I-170 | Police investigation for shooting on roadway | 4:03 |
| 13 | 12/13/2019 12:23 | Friday | I-170 NB | AT AIRPORT RD | Lanes closed as part of police investigation on I-270 | 3:01 |
| 14 | 12/15/2019 1:44 | Sunday | I-270 NB | AT DOUGHERTY FERRY RD | Fatal crash involving a wrong-way driver, another critical injury and multiple vehicles | 3:47 |
| 15 | 12/15/2019 10:20 | Sunday | I-70 EB | PAST ROUTE TW | Crash involving car and SUV that left the scene and car with heavy front-end damage and debris in road | 2:16 |
| 16 | 12/15/2019 10:22 | Sunday | I-70 WB | PAST BRYAN RD | Broken axle on semi-truck required a heavy tow | 3:01 |
| 17 | 12/16/2019 10:21 | Monday | I-55 NB | PAST EXIT 162 ROUTE DD AT MM 162.0 | Crash involving MoDOT maintenance vehicle from SE District and a commercial vehicle | 2:32 |
| 18 | 12/16/2019 11:52 | Monday | I-44 EB | TO I-270 SB | Two stalled tractor trailers had to be towed by ER and roadway re-treated with salt | 2:09 |



INCIDENT MANAGEMENT

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| # | Date & Time | Day of Week | Route | Location | Description | Duration HH/MM |
|----|------------------|-------------|-----------|----------------------|--|-------------------|
| 19 | 12/16/2019 12:21 | Monday | I-44 EB | BEFORE MO 141 | Flatbed tractor trailer crashed into median | 2:14 |
| 20 | 12/16/2019 14:52 | Monday | I-44 EB | BEFORE MO 109 | Multi-vehicle crash with 6 vehicles, 4 tows and a required cleanup of 100-150 gallons of diesel fuel | 2:13 |
| 21 | 12/16/2019 14:53 | Monday | I-55 SB | BEFORE US 61 | Two stalled tractor trailers on icy roadway | 2:01 |
| 22 | 12/16/2019 15:39 | Monday | I-55 SB | BEFORE MCNUTT ST | Several stalled tractor trailers on hill crest with no ER available had to wait for maintenance to plow | 2:54 |
| 23 | 12/16/2019 21:08 | Monday | N U RT | LILLIAN AVE CST | Steel road plates were dislodged, and vehicle became stuck in hole and had to be towed; front loader responded to put plates back in place | 2:42 |
| 24 | 12/17/2019 11:51 | Tuesday | I-55 NB | PAST BROADWAY ST | Stalled vehicle moved to the shoulder awaiting tow | 2:26 |
| 25 | 12/20/2019 1:11 | Friday | US 67 NB | PAST MONTEBELLO RD | House fire forced road to be treated for refreezing | 2:33 |
| 26 | 12/20/2019 1:13 | Friday | US 67 SB | PAST NEW TOWNE RD | | 2:30 |
| 27 | 12/20/2019 11:26 | Friday | I-44 WB | ON RAMP FROM MO 141 | Oversized load stuck on ramp; load had to be stabilized before tow could remove | 3:51 |
| 28 | 12/25/2019 14:21 | Wednesday | I-55 NB | BEFORE ROUTE M | Fatal two-vehicle crash, one injury, one fatality, two tows and reconstruction | 2:41 |
| 29 | 12/25/2019 14:41 | Wednesday | I-55 NB | AT ROUTE Z | | 2:18 |
| 30 | 12/25/2019 14:43 | Wednesday | I-55 NB | ON RAMP FROM ROUTE Z | | 3:04 |
| 31 | 12/26/2019 7:40 | Thursday | MO 141 NB | PAST FIEDLER LN | Overtaken dump truck with spilled load of dirt | 3:04 |
| 32 | 12/28/2019 19:40 | Saturday | I-270 EB | PAST MO 367 | Crash involving tractor trailer that struck guard rail and caused guard rail to be blocking right lane | 3:04 |
| 33 | 1/1/2020 22:08 | Wednesday | I-270 EB | TO LILAC AVE | Police investigation of shooting on Lilac near I-270 | 2:55 |
| 34 | 1/4/2020 22:41 | Saturday | I-55 SB | TO US 67 SB | Overtaken tractor trailer injury crash with a load of 36000lbs of beef; diesel spill of less than 50 gallons | 3:51 |
| 35 | 1/10/2020 14:39 | Friday | I-44 WB | BEFORE ANTIRE RD | Tractor trailer crashed and entangled in guard cable | 4:23 |



INCIDENT MANAGEMENT

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| # | Date & Time | Day of Week | Route | Location | Description | Duration HH/MM |
|----|-----------------|-------------|----------------|-------------------------|---|-------------------|
| 36 | 1/10/2020 22:37 | Friday | US 67 NB | PAST TAYLOR RD | Roadway flooded by clogged drain | 2:42 |
| 37 | 1/11/2020 8:50 | Saturday | I-44 WB | PAST I-270 | Emergency pothole patching of large pothole | 2:21 |
| 38 | 1/11/2020 21:54 | Saturday | I-70 WB | PAST HANLEY RD | Multi-vehicle crash; 9 vehicles and multiple tows involved; one motorist fled crash with a firearm in hand; maintenance responded to treat icy conditions | 2:41 |
| 39 | 1/18/2020 6:00 | Saturday | I-55 SB | BEFORE ROUTE A | Two-vehicle roll over crash; tractor trailer vs. car; tractor trailer entangled into guard cable and car rolled over onto right side of the roadway | 3:38 |
| 40 | 1/18/2020 10:38 | Saturday | I-44 EB | AT NORTH MO 185/ROUTE D | Two-vehicle crash involving an overturned vehicle | 2:47 |
| 41 | 1/18/2020 13:26 | Saturday | I-44 EB | TO EXIT 225 | Two-vehicle crash | 2:28 |
| 42 | 1/21/2020 11:51 | Tuesday | I-64 EB | BEFORE VANDEVENTER AVE | Stalled vehicle with on-scene mechanic repairs | 6:21 |
| 43 | 1/21/2020 19:55 | Tuesday | N 141 OR | FIEDLER LN | Shooting at off-road establishment police requested closure of outer road for investigation | 4:48 |
| 44 | 1/22/2020 13:03 | Wednesday | I-70 WB | AT ST CHARLES ROCK RD | Single-vehicle injury crash with reconstruction | 2:28 |
| 45 | 1/22/2020 13:52 | Wednesday | I-44 WB | PAST ROUTE JJ/W | Pickup rear-ended tractor trailer and crossed over median into eastbound lanes striking a second tractor trailer; 2 air evac rescues and tractor trailer entangled in guard cable | 3:55 |
| 46 | 1/22/2020 23:23 | Wednesday | I-44 EB | AT NORTH MO 185/ROUTE D | Tractor trailer struck bridge overpass; bridge inspection with no bridge damage but guardrail damage occurred | 2:11 |
| 47 | 1/23/2020 3:52 | Thursday | I-44 EB | BEFORE I-270 | Stalled tractor trailer with airbag deployment | 3:40 |
| 48 | 1/26/2020 4:51 | Sunday | W PAGE AVE CST | FERGUSON AVENUE | Cable lines down over road | 12:49 |
| 49 | 1/27/2020 15:36 | Monday | E 340 MO | OLD BONHOMME ROAD | Water main break closed roadway | 4:13 |
| 50 | 2/5/2020 21:34 | Wednesday | I-70 WB | AT RIVERVIEW | Police investigation for a shooting | 2:01 |



INCIDENT MANAGEMENT

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| # | Date & Time | Day of Week | Route | Location | Description | Duration HH/MM |
|----|-----------------|-------------|----------------------------------|-----------------------------|--|-------------------|
| 51 | 2/5/2020 21:36 | Wednesday | I-70 WB | ON RAMP FROM STRATFORD AVE | Police investigation for a shooting | 2:00 |
| 52 | 2/6/2020 3:32 | Thursday | MO 370 EB | BEFORE ST LOUIS MILLS | Three-Vehicle crash police vehicle was struck in a secondary crash | 2:40 |
| 53 | 2/7/2020 1:16 | Friday | I-44 EB | BEFORE I-270 | Work zone crash into fitch barrels with diesel spill | 2:31 |
| 54 | 2/12/2020 5:36 | Wednesday | I-44 WB | AT MO 141 | Hit and run of pedestrian resulting in a fatality | 3:16 |
| 55 | 2/12/2020 19:07 | Wednesday | I-70 WB | PAST BERMUDA RD | Tractor trailer overturned spilling 38,000 lbs. of cupcakes and wrong tow initially responded. Cupcake, rock, and mud debris on roadway required cleanup. Ramp closed to upright overturned tractor trailer | 2:57 |
| 56 | 2/12/2020 19:14 | Wednesday | I-70 WB | TO FLORISSANT RD | | 2:59 |
| 57 | 2/12/2020 20:26 | Wednesday | I-70 WB | ON RAMP FROM BERMUDA RD | | 2:46 |
| 58 | 2/14/2020 10:46 | Friday | I-64 WB | AT ROUTE N | Crossover crash involving three-vehicles resulting in four fatalities Ramp closed for fatal crash reconstruction on I-64 | 3:14 |
| 59 | 2/14/2020 11:03 | Friday | I-64 WB | ON RAMP FROM WINGHAVEN BLVD | | 2:57 |
| 60 | 2/17/2020 16:33 | Monday | W MANCHESTER RD CST | W WARSON WOODS DR CST | Police closed roadway for investigation of a powdered substance that was determined to be Strontium Carbonate requiring cleanup | 6:40 |
| 61 | 2/21/2020 10:42 | Friday | I-70 WB | PAST MO 141 | Two-vehicle crash in the work zone with a serious injury requiring field surgery and an air evac | 2:24 |
| 62 | 2/21/2020 21:04 | Friday | I-270 SB | PAST LADUE RD | Two-vehicle fatal crash with reconstruction motorist had tried to cross interstate and was fatally struck | 3:14 |
| 63 | 2/25/2020 13:16 | Tuesday | I-70 EB | TO ADELAIDE AVE | Two-vehicle crash with head injuries | 2:10 |
| 64 | 2/26/2020 14:13 | Wednesday | ROUTE H / SOUTH RIVERVIEW DR CST | N HALL ST CST | Two-vehicle fatal crash with extrication and reconstruction Emergency vehicles closed lane for reconstruction | 3:27 |
| 65 | 2/26/2020 14:41 | Wednesday | ROUTE H / NORTH RIVERVIEW DR CST | N HALLS FERRY RD CST | | 3:06 |



INCIDENT MANAGEMENT

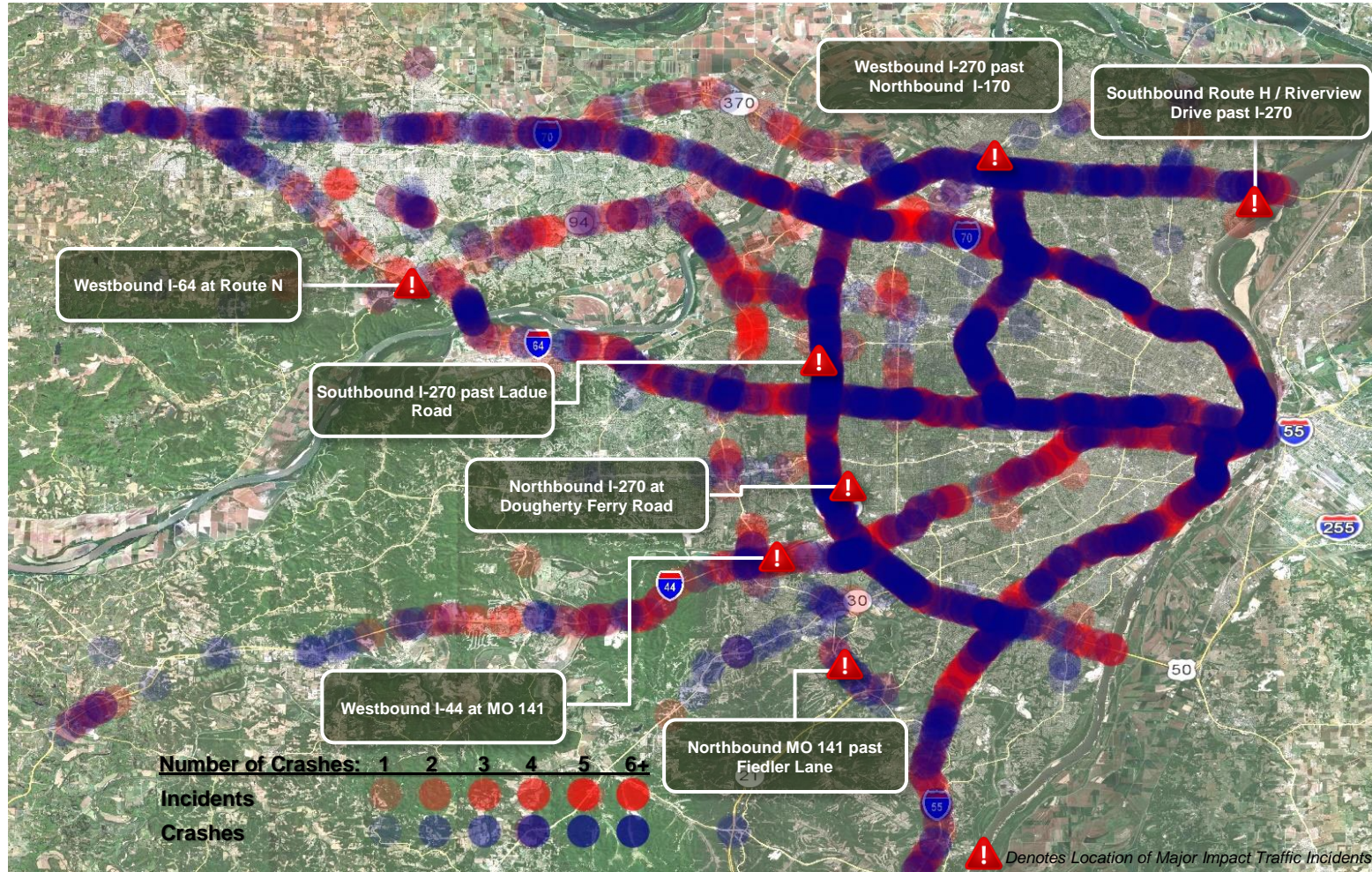
ST. LOUIS DISTRICT ■ QUARTERLY REGIONAL MOBILITY REPORT ■ DECEMBER 2019 / JANUARY / FEBRUARY 2020



| # | Date & Time | Day of Week | Route | Location | Description | Duration HH/MM |
|----|-----------------|-------------|---------------|---------------------|---|-------------------|
| 66 | 2/26/2020 22:59 | Wednesday | W DUNN RD CST | GRAHAM RD CST | Crime scene with an overturned vehicle and a vehicle on fire/huge police presence for investigation | 2:04 |
| 67 | 2/28/2020 2:20 | Friday | MO 30 WB | AT MO 141 | Pedestrian fatally struck by vehicle with reconstruction | 3:28 |
| 68 | 2/28/2020 2:22 | Friday | MO 30 WB | ON RAMP FROM MO 141 | Ramp closed for reconstruction of fatal pedestrian strike and waiting for medical examiner | 3:26 |



December 2019/January/February 2020 Incidents with Mobility Impact





INCIDENT MANAGEMENT

ST. LOUIS DISTRICT ■ QUARTERLY REGIONAL MOBILITY REPORT ■ DECEMBER 2019 / JANUARY / FEBRUARY 2020



Major Impact Traffic Incidents and Mitigation

12/13/2019 (Friday)

- **Time:** 11:21 am – 3:24 pm *****Fatality*****
- **Location:** St. Louis County Westbound I-270 past Northbound I-170
- **Event Type:** Police Investigation for shooting resulting in a two-vehicle crash and a secondary crash
- **Estimated Initial Impact:** Non-Rush Hour: 4 of 4 travel lanes affected equals (=) 100%
- **Incident Details:** TMC personnel overheard emergency units being dispatched to a crash on Westbound I-270 west of I-170 while actively monitoring scanner traffic. A driver of a passenger vehicle was shot. The vehicle was hit numerous times causing the driver to lose control and collide with a tractor trailer. The driver was pronounced at the scene. All westbound lanes of the interstate were closed while the Major Case Squad investigated the homicide.
- **Action Taken:** The TMC confirmed the location via CCTV, entered the event into ATMS and immediately activated appropriate DMS boards. This also auto generated the closure into TMS to alert drivers. Hazelwood Police, Fire & EMS responded, as did the MSHP and the St. Louis County Police. St. Louis County took command of the scene. MoDOT Emergency Responders were dispatched to assist with traffic, which was diverted onto Southbound I-170 and North Hanley for drivers to use the outer roads. Traffic engineers monitored traffic signals for signal timing adjustments. The SL City County IM Text and CO Incident alerts were sent out. Communications Staff, Motor Carriers, and the Incident Management Coordinator were all notified. At 11:42 a.m., TMC Operators observed a secondary accident in the queued traffic on Westbound I-270 west of New Florissant Road. A small passenger car rear ended a tractor trailer that had slowed in the traffic. At approximately an hour into the incident, Berkeley Police shut down Northbound I-170 at Airport Road at the request of Hazelwood Police. Drivers could use Northbound Hanley Road to get back to Eastbound I-270 or use the North Outer Road to go west. Traffic queued 2.5 miles on Westbound I-270 and a mile on Northbound I-170.
- **Event Duration:** 4 hours 3 minutes

|  | Westbound I-270 past Northbound I-170 | Left Shoulder | Lane 1 | Lane 2 | Lane 3 | Exit Lane | Right Shoulder |
|---|---|------------------|--------|--------|--------|-----------|-------------------|
| Closed Hours/Minutes | | 4:03 | 4:02 | 4:01 | 4:01 | 4:01 | 4:01 |



| | Northbound I-170 at Airport Road | Left Shoulder | Lane 1 | Lane 2 | Lane 3 | Right Shoulder |
|----------------------|--|------------------|--------|--------|--------|-------------------|
| Closed Hours/Minutes | | 3:01 | 3:01 | 3:01 | 3:01 | 3:01 |





Pictured on the left: The red tractor trailer and the white one in front of it were backed down the ramp from Westbound I-270, to use the outer road. The green tractor trailer and the cars behind it were turned around and taken the opposite direction on the ramp to get back to the outer road.

Pictured on the right: Vehicles from the flyover ramp were turned around to go back the opposite direction, then turned around again to Westbound I-270.



INCIDENT MANAGEMENT


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Major Impact Traffic Incidents and Mitigation

12/15/2019 (Sunday)

- **Time:** 1:44 am – 5:31 am *****Fatality*****
- **Location:** St. Louis County Northbound I-270 at Dougherty Ferry Road
- **Event Type:** Multi-vehicle Fatal Crash
- **Estimated Initial Impact:** Non-Rush Hour: 3 of 3 travel lanes affected equals (=) 100%
- **Incident Details:** A wrong-way driver in vehicle #1 struck vehicle #2 that was struck again by vehicle #3. Crash resulted in the driver of vehicle #1 seriously injured. An occupant of vehicle #2 was fatally injured along with serious injury to the driver. An occupant in vehicle #3 suffered a minor injury.
- **Action Taken:** The TMC was notified by St. Louis County Police of the incident and confirmed it on CCTV. MoDOT Emergency Response was in the middle of a shift change so an ER supervisor was notified who then contacted the next scheduled unit to expedite their response. TMC Operators entered the event into ATMS and activated appropriate DMS boards. Incident alerts were sent out to the appropriate email groups including MoDOT EOC. St. Louis County Police, Kirkwood Police, Des Peres Police and MSHP were on scene and detoured traffic up and over at the Dougherty Ferry exit ramp. Fire, EMS and an accident reconstruction crew were also on scene. A MoDOT ER unit arrived to assist with traffic control and to clear debris. MoDOT Maintenance supervision was notified with a request for a salt truck due to icy conditions following a wash-down by the fire department. The maintenance unit arrived responded and treated roadway. The traffic queue was minimal due to time of day.
- **Event Duration:** 3 hours 47 minutes.

|  | Northbound I-270 at Dougherty Ferry Road | Lane 1 | Lane 2 | Lane 3 | Right Shoulder |
|---|---|--------|--------|--------|-------------------|
| Closed Hours/Minutes | | 3:47 | 3:47 | 3:45 | 3:45 |






Major Impact Traffic Incidents and Mitigation

12/26/2019 (Thursday)

- **Time:** 7:40 am – 10:44 am
- **Location:** Jefferson County Northbound MO 141 past Fiedler Lane
- **Event Type:** Two-Vehicle Crash
- **Estimated Initial Impact:** Rush Hour: 2 of 2 travel lanes affected equals (=) 100%
- **Incident Details:** TMC operators heard over the scanner of a reported crash with an overturned vehicle on MO 141 past Fiedler. After checking the cameras, it was discovered the overturned vehicle was a dump truck and debris was scattered across all lanes of traffic.
- **Action Taken:** Police contacted the TMC for assistance with traffic control stating there was a passenger vehicle involved in a crash with a dump truck carrying dirt. An Emergency Response Unit was sent to the scene to help with traffic control. The Emergency Response Supervisor and Incident Management Coordinator were contacted. After arriving on scene Emergency Response closed the roadway and diverted traffic to Fiedler Lane. The Festus Maintenance Supervisor was contacted regarding the spill and responded to the location with a front loader. Maintenance moved the spilled load to the left median to reopen the roadway. The company that lost the load of dirt stated they would remove it from the median later. The TMC used DMS boards along I-55 and MO 141 to warn motorists of incident. The incident was added to TMS and an incident alert was sent to notify District Leadership. A half mile traffic queue resulted with a backup to Schneider. The duration of the incident was extended due the tow company trying to remove the dump truck and maintenance completing a wash down of the roadway.
- **Event Duration:** 3 hours 4 minutes

|  | Northbound MO 141 past Fiedler Lane | Left Shoulder | Lane 1 | Lane 2 | Right Shoulder |
|---|---|------------------|--------|--------|-------------------|
| Closed Hours/Minutes | | 2:58 | 2:58 | 2:58 | 3:04 |






Major Impact Traffic Incidents and Mitigation

2/12/2020 (Wednesday)

- **Time:** 5:36 am – 8:52 am ***Fatality***
- **Location:** St. Louis County Westbound I-44 at MO 141
- **Event Type:** Pedestrian Struck
- **Estimated Initial Impact:** Rush Hour: 4 of 4 travel lanes affected equals (=) 100%
- **Incident Details:** Fatal hit and run of a pedestrian. The pedestrian was in lane #3 when a vehicle struck the pedestrian and left the scene of the crash. The pedestrian was pronounced at scene by investigators at 6:50 am.
- **Action Taken:** TMC Operators entered the event into ATMS and activated DMS boards within one minute of the start of the incident. MoDOT Emergency Response was dispatched. Communications, EOC and ER Supervision were all notified. An incident alert was sent out with updates sent nearly every hour. TMC personnel coordinated with MoDOT Emergency Response to set up the diversion for traffic at MO 141, as Police had already begun the process. Reconstruction arrived on the scene at 7:11 am. All Lanes re-opened at 8:52 am. The length of the event was due to investigation and reconstruction. The traffic queue was 1 Mile.
- **Event Duration:** 3 hours 16 minutes

|  | Westbound I-44 at MO 141 | Left Shoulder | Lane 1 | Lane 2 | Lane 3 | Lane 4 | Right Shoulder |
|---|--------------------------------|---------------|--------|--------|--------|--------|----------------|
| Closed Hours/Minutes | | 3:16 | 3:16 | 3:16 | 3:16 | 3:16 | 3:16 |

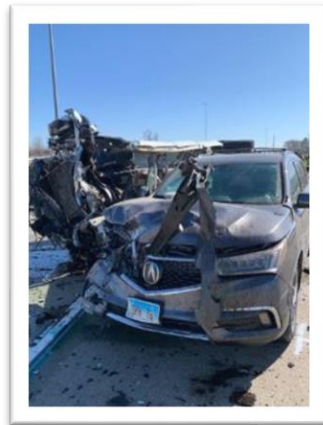


Major Impact Traffic Incidents and Mitigation

2/14/2020 (Friday)

- **Time:** 10:46 am – 2:00 pm *****Fatality*****
- **Location:** St. Louis County Westbound I-64 at Route N
- **Event Type:** Three-Vehicle Crash
- **Estimated Initial Impact:** Non-Rush Hour: 2 of 2 travel lanes affected equals (=) 100%
- **Incident Details:** A pickup truck was traveling eastbound on I-64 and traveled off the north side of the interstate through the median cable barriers, started to overturn and struck two vehicles traveling in the westbound direction. Incident resulted in four fatalities, two drivers of the westbound vehicles were pronounced at scene and two passengers were pronounced at the hospital. The driver of the pickup suffered serious injuries.
- **Action Taken:** Upon TMC confirmation of the incident, MSHP, O'Fallon Police, Wentzville Fire Department and EMS were already on scene. MoDOT Emergency Response was dispatched for traffic control. Police confirmed it was a fatal incident. Notifications were made to Communications, Motor Carriers, ER Supervision and EOC. ER arrived on scene and worked with Police to set up the traffic diversion at Route DD/Winghaven and then subsequently closed the ramp from Winghaven to Westbound I-64. Emergency vehicles temporarily blocked the eastbound side of I-64 while they accessed the scene. All lanes were progressively re-opened. Signal engineers began adjusting signals at Winghaven for the detour. ER was dispatched when they came into service and brought oil dry to the scene because of fluid leaks from the vehicles. The Medical Examiner arrived along with a reconstruction team. A call report for Guard Cable damage was created and sent to MT contracts.
- **Event Duration:** 3 hours 14 minutes

|  | Westbound I-64 at Route N | Left Shoulder | Lane 1 | Lane 2 | Right Shoulder |
|---|---------------------------------|------------------|--------|--------|-------------------|
| Closed Hours/Minutes | | 3:14 | 3:14 | 3:14 | 3:14 |





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Major Impact Traffic Incidents and Mitigation

2/21/2020 (Friday)

- **Time:** 9:04 pm – 12:18 am *****Fatality*****
- **Location:** St. Louis County Southbound I-270 past Ladue Road
- **Event Type:** Three-Vehicle Crash with a Pedestrian Struck
- **Estimated Initial Impact:** Non-Rush Hour: 6 of 6 travel lanes affected equals (=) 100%
- **Incident Details:** MoDOT Emergency Response and Creve Coeur Police were on scene with an abandoned vehicle on right shoulder. A pedestrian attempted to cross the median to reach the abandoned vehicle and was struck by another vehicle followed by two additional vehicles getting involved in the crash.
- **Action Taken:** The TMC was notified via MoDOT Emergency Response on scene and confirmed the incident on CCTV. TMC operators entered the event into ATMS and activated appropriate DMS boards. MoDOT Emergency Response assisted with traffic control. Incident alerts were sent out to the appropriate email groups. Lanes were progressively opened. Traffic queued 1.3 miles at its peak and it took approximately 4 minutes for traffic to return to normal after the incident cleared. Event duration due to nature of the event and crash reconstruction.
- **Event Duration:** 3 hours 14 minutes

| | | | | | | | | |
|----------------------|--------------------------------------|--------|--------|--------|--------|--------|--------|-------------------|
| | Southbound I-270 past Ladue Rd | Lane 1 | Lane 2 | Lane 3 | Lane 4 | Lane 5 | Lane 6 | Right Shoulder |
| Closed Hours/Minutes | | 0:10 | 2:00 | 3:09 | 3:14 | 3:14 | 3:14 | 3:14 |



INCIDENT MANAGEMENT

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Major Impact Traffic Incidents and Mitigation

2/26/2020 (Wednesday)

- **Time:** 2:13 pm – 5:40 pm *****Fatality*****
- **Location:** St. Louis County Southbound Route H/Riverview Drive past I-270
- **Event Type:** Two-Vehicle Fatal Crash
- **Estimated Initial Impact:** Rush Hour: 2 of 2 travel lanes affected equals (=) 100%
- **Incident Details:** Two vehicle crash of a sedan vs tractor trailer resulting with a fatality of the driver of the sedan.
- **Action Taken:** The TMC received a phone call from the St. Louis City Police dispatcher of a vehicle crash on Riverview Drive. The TMC confirmed the back-up of the incident on CCTV and notified MoDOT Emergency Response to assist with traffic control. TMC Operators entered the event into ATMS and activated appropriate DMS boards. TMC Operators also entered the event in to TMS for the public to be aware of the closure. All lanes on Riverview Drive were closed Northbound and Southbound between I-270 and Hall Street. St. Louis City Police, St. Louis City Fire, and St. Louis City EMS all responded to the scene as well as two tows for the vehicles. Event duration was due to the driver of the sedan needing to be extricated from the vehicle and the crash reconstruction. There was no traffic queue when the incident cleared as all lanes were closed and traffic was forced to take an alternate route.
- **Event Duration:** 3 hours 27 minutes

| | | |
|--|---|--------|
| | Southbound Route H/Riverview Drive past I-270 | Lane 1 |
| | Closed Hours/Minutes | 3:27 |

| | | |
|--|--|--------|
| | Northbound Route H/Riverview Drive before I-270 | Lane 1 |
| | Closed Hours/Minutes | 3:27 |