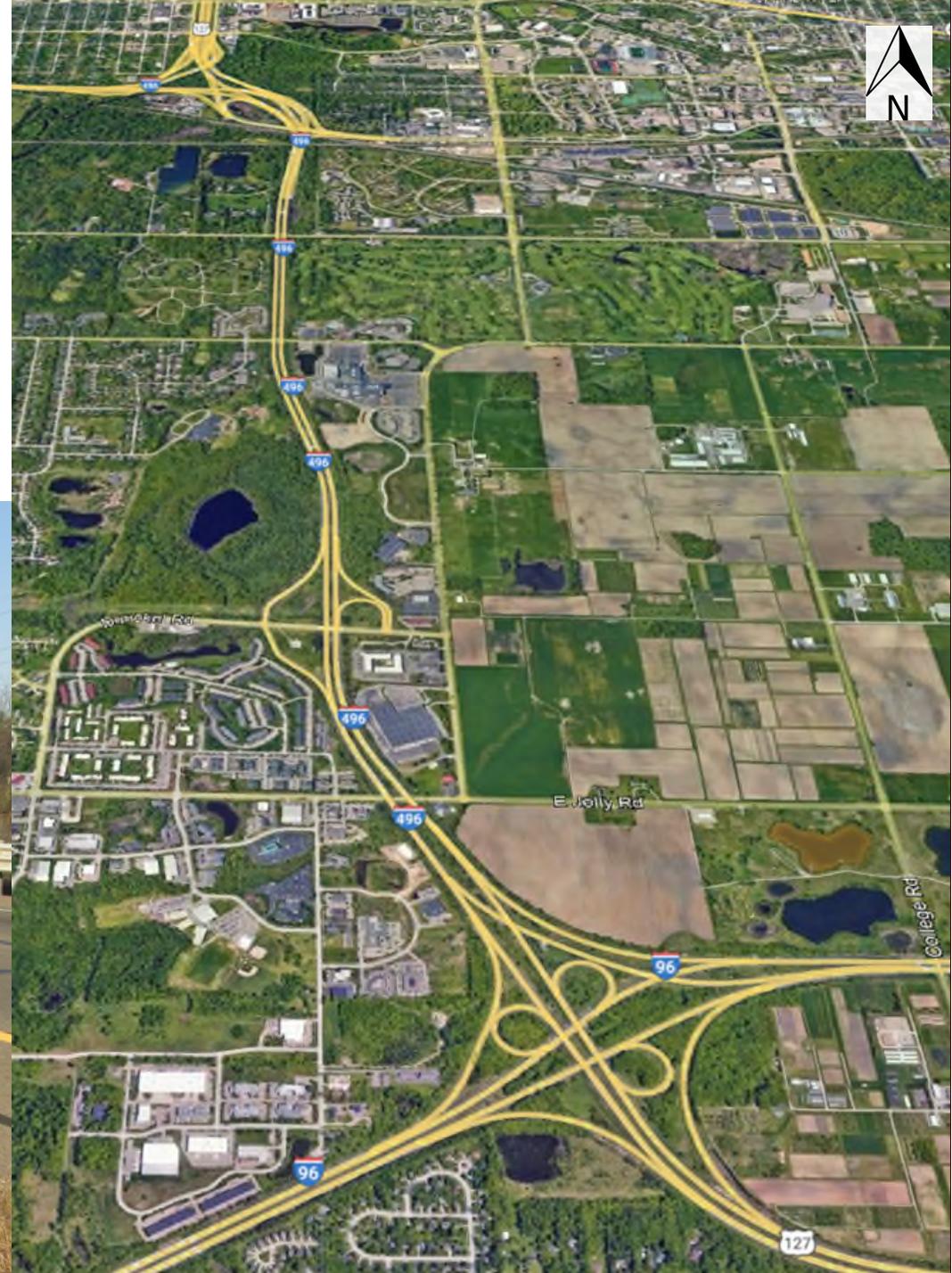


US-127/I-496 Corridor Improvements



US-127/I-496 project

US-127/I-496 proposed construction work by year:

2023 (complete):

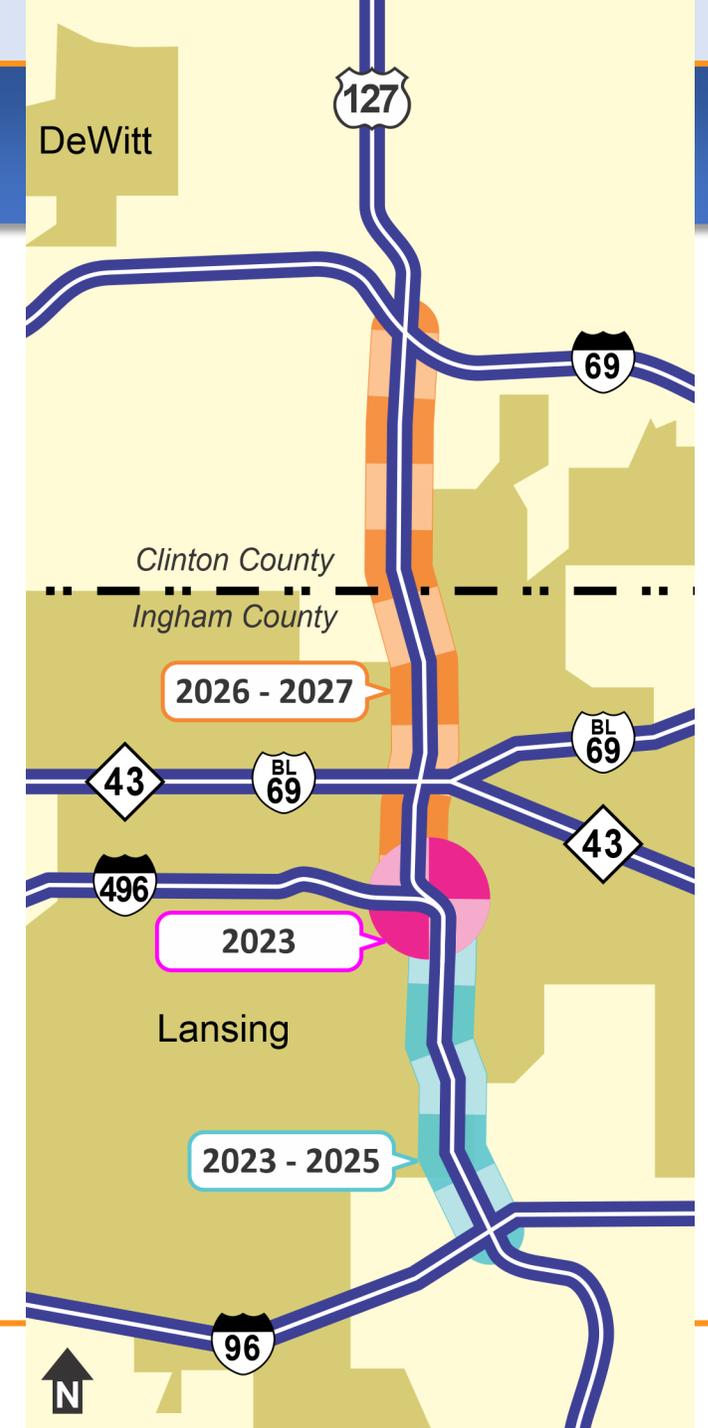
Eastbound I-496 ramp to northbound US-127 and southbound US-127 ramp to westbound I-496 bridge and roadway rebuilding

2023 - 2025 (began in late 2023):

Rebuilding US-127/I-476 from I-96 to I-496

2026 - 2027 (begins in early 2026):

Repairing and improving US-127 from I-496 to I-69



US-127/I-496 rebuilding from I-96 to I-496

Project information:

Rebuilding 3.7 miles from I-96 to I-496

Rebuilding the Dunckel Road and Trowbridge Road interchange ramps

Work on 18 bridges

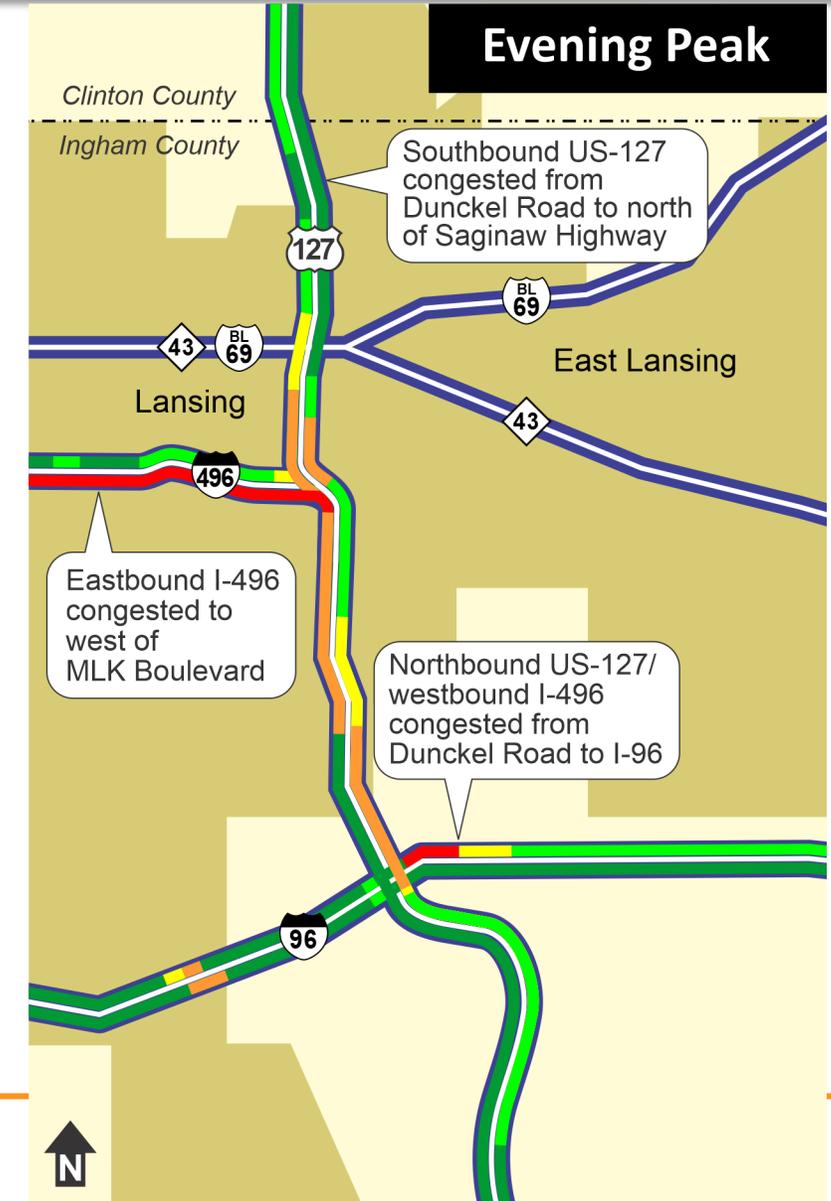
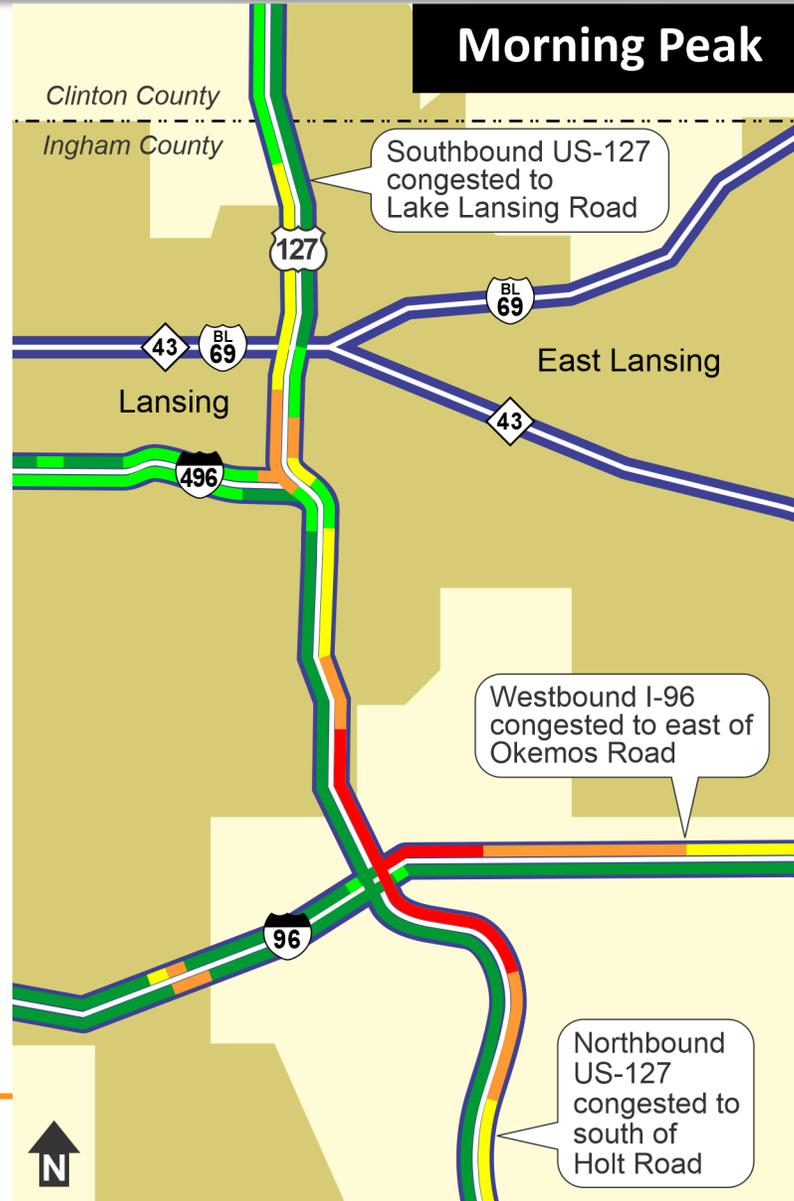
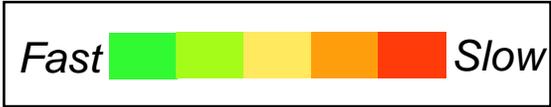
Rebuilding Trowbridge Road

Adding freeway lighting from Dunckel Road to Trowbridge Road

Rebuilding happening late 2023 through the end of 2025



2045 congestion if nothing's changed (No-Build)

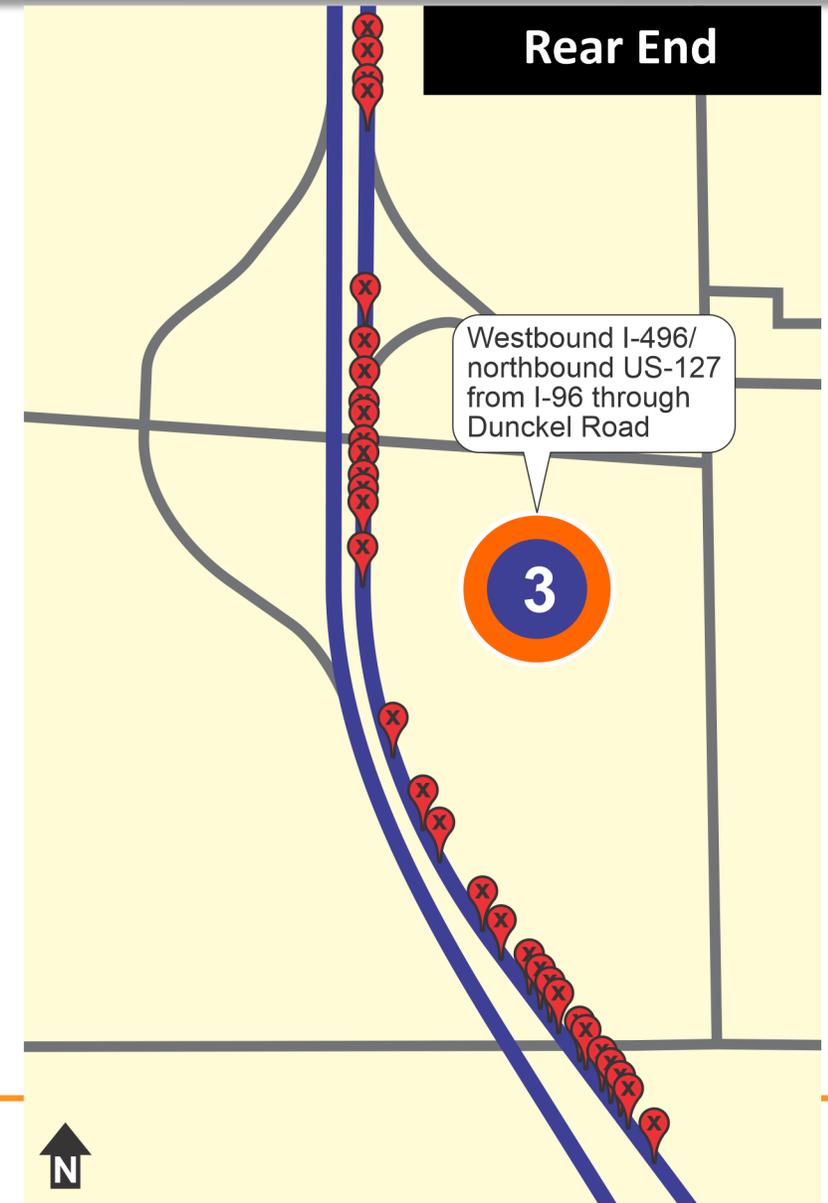
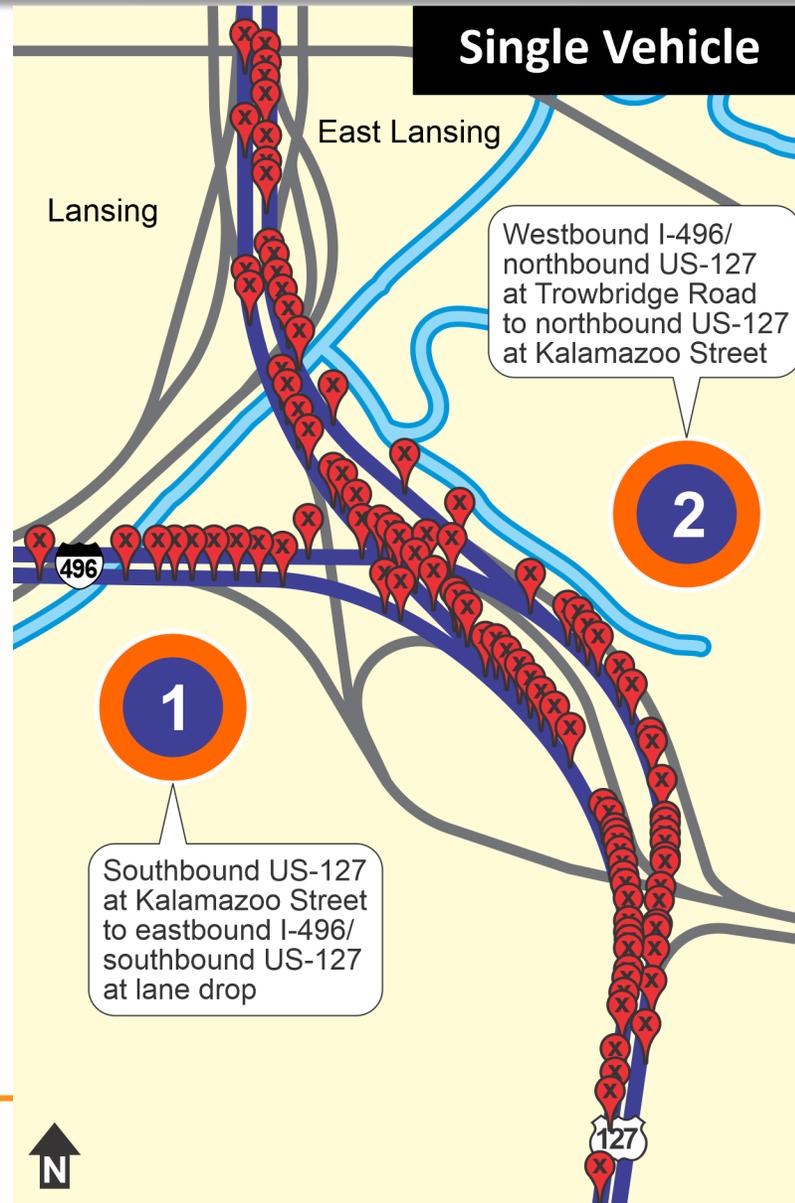


Crash analysis

Details

Five-year review period

Does not include the Covid-19 timeframe



Key takeaways from Operations slides

Operations slide key takeaways:

Morning peak issues are due to lane drops at Dunckel Road, high traffic volumes entering northbound US-127 from Dunckel Road, and lane configuration issues at the I-496/US-127 split.

Evening peak issues are due to lane drops along eastbound I-496 and southbound US-127, and freeways merging with each other.

Traffic operations worsen if the roadway is not upgraded in future years.

Northbound US-127 begins to see congestion at Dunckel Road in the evening peak in the future.



Proposed roadway fix

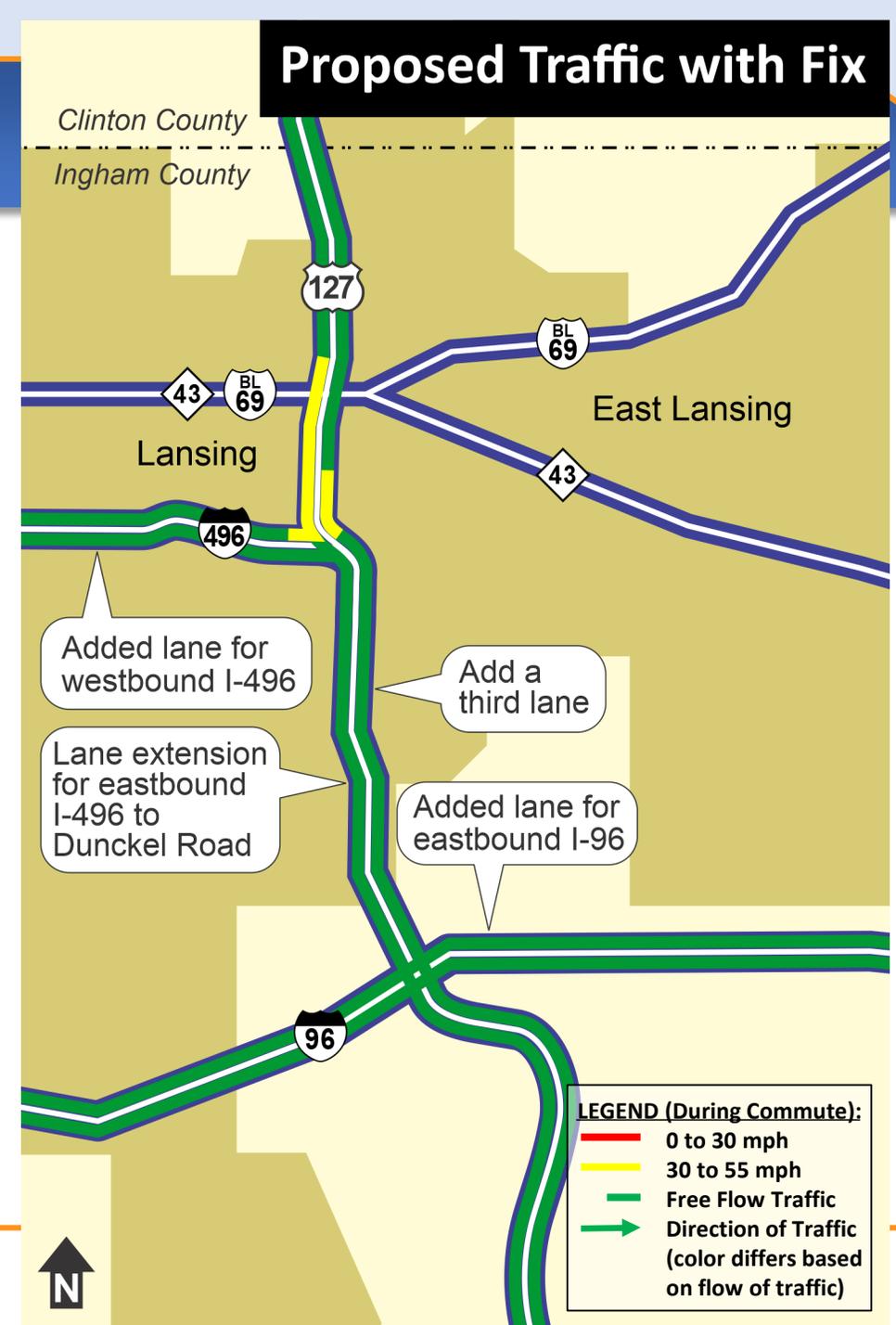
Roadway fix based on operational analysis

Westbound I-496/northbound US-127:

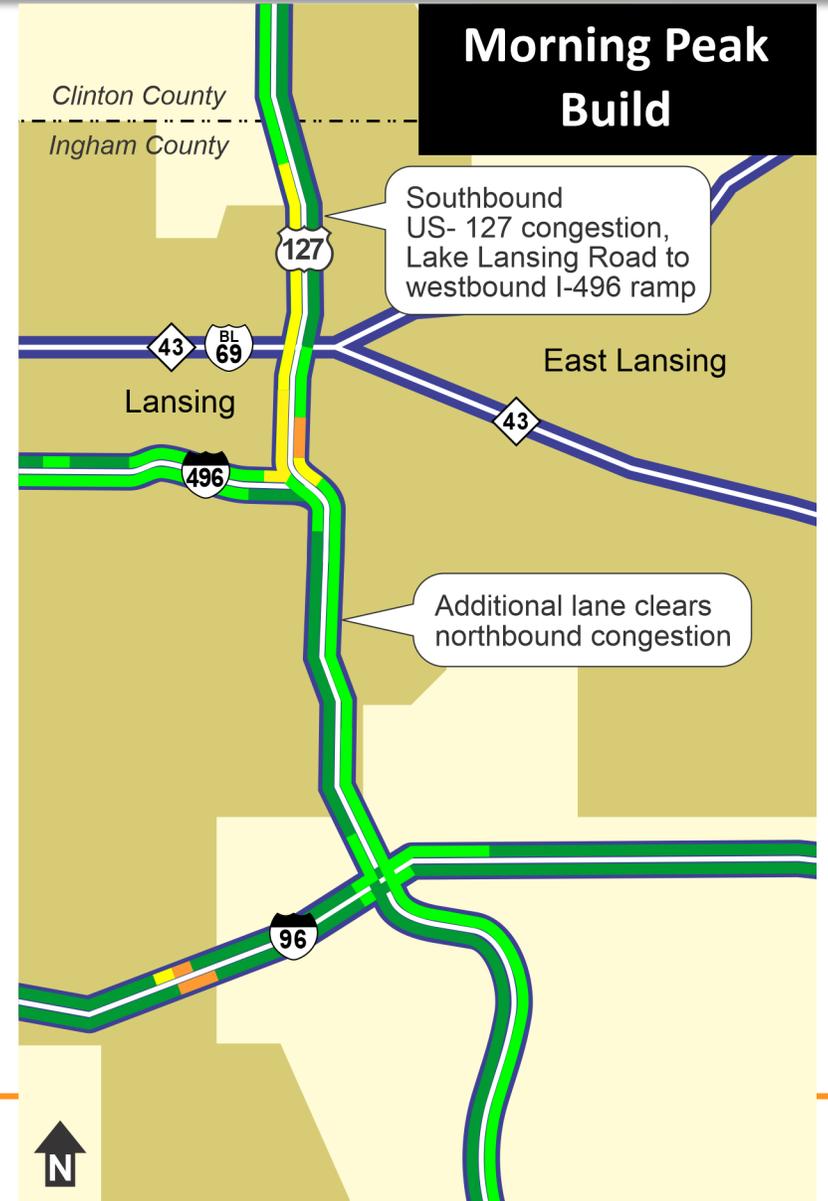
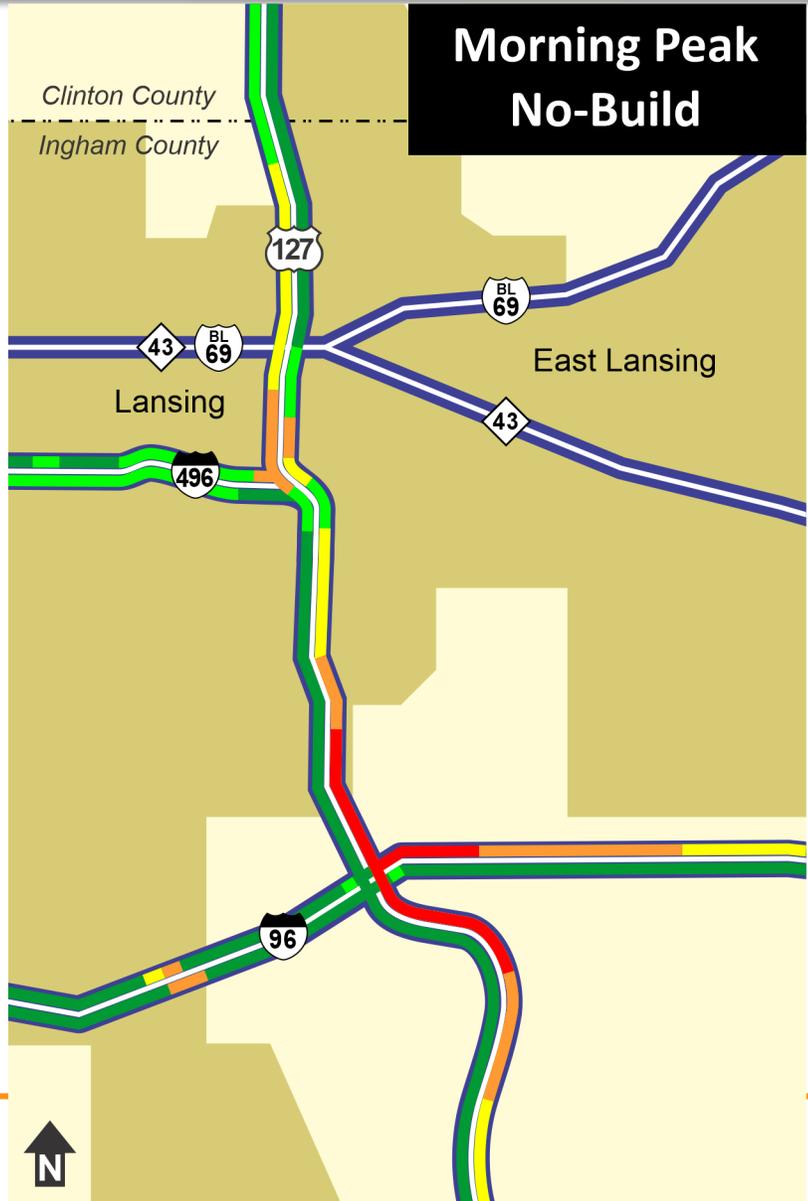
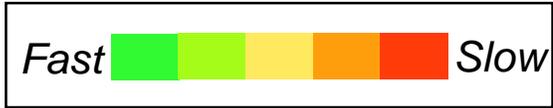
- Add a third lane from Dunckel Road to I-496
- Extend the northbound Dunckel Road on ramp acceleration lane
- Two dedicated lanes to both northbound US-127 and westbound I-496

Eastbound I-496/southbound US-127:

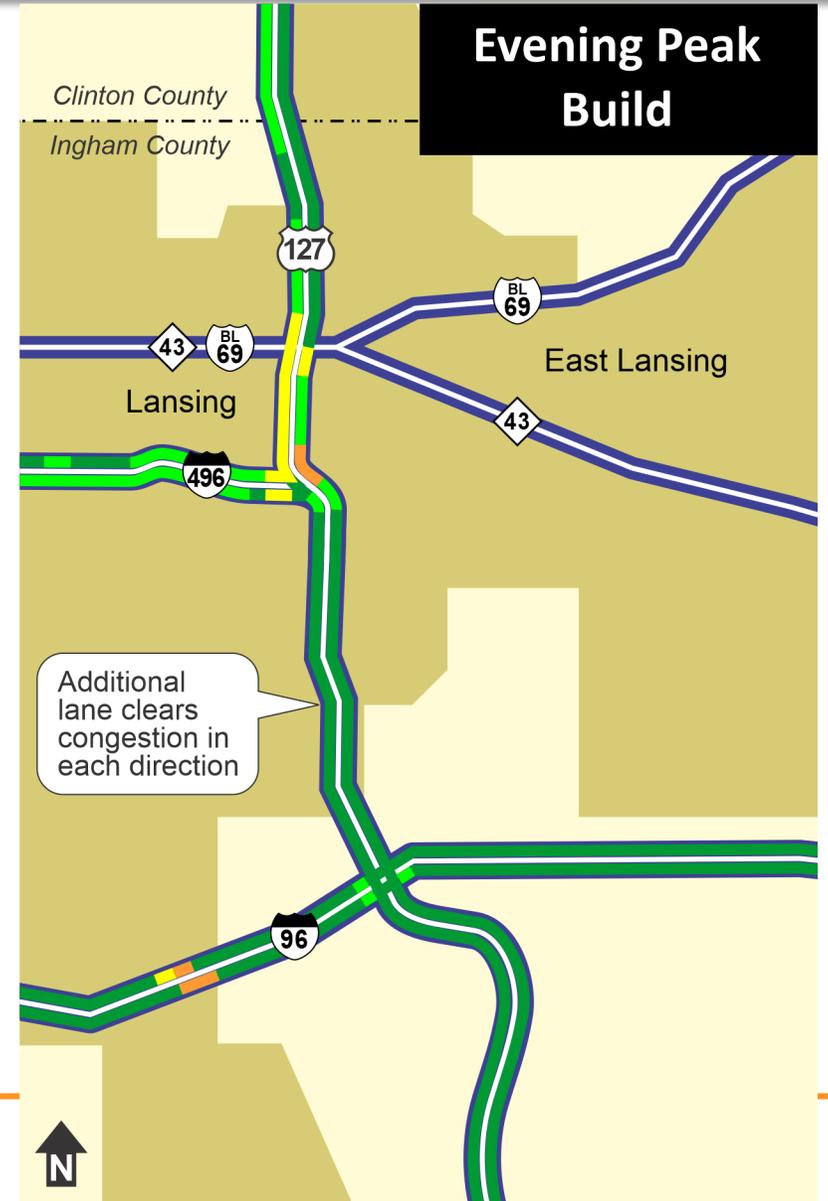
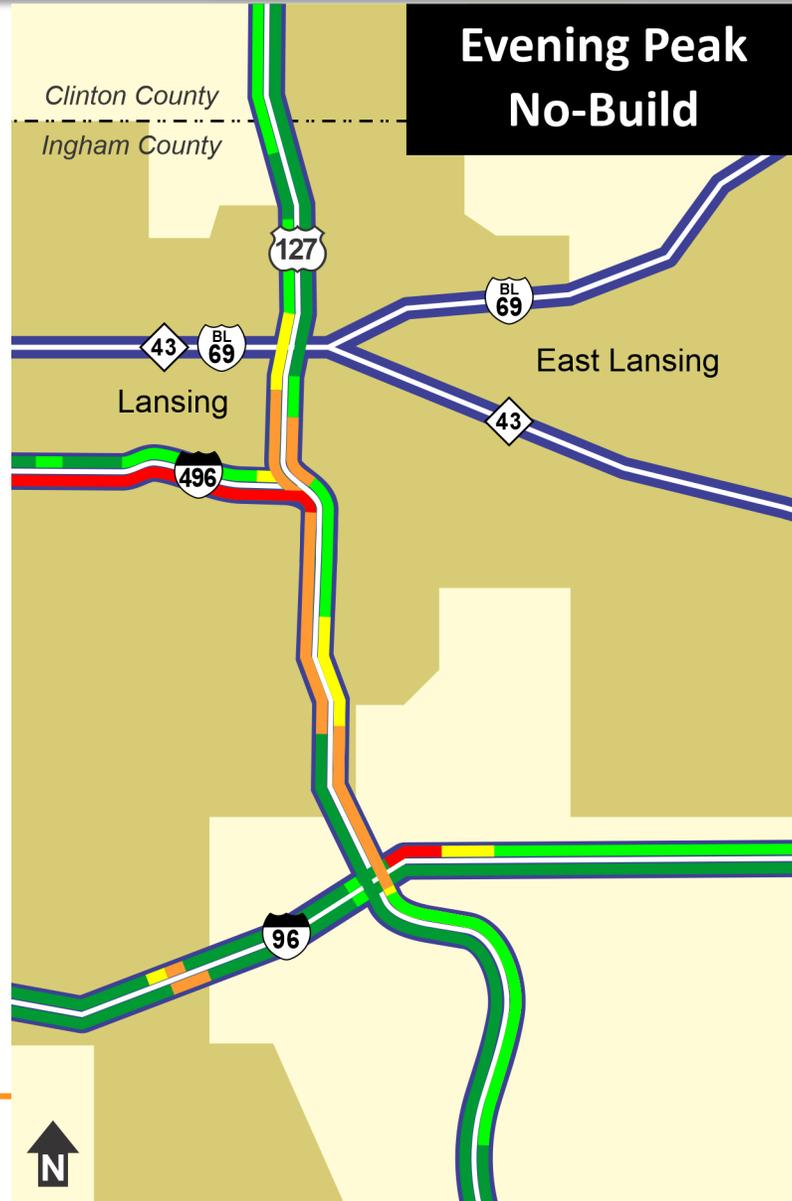
- Add a third lane from eastbound I-496 to Dunckel Road
- Extend the southbound US-127 median lane drop
- Two dedicated lanes to both southbound US-127 and eastbound I-96



2045 operations (No-Build versus Build)



2045 operations (No-Build versus Build)



Bridge work

Bridge work:

35 bridges being worked on
(18 southbound, 17 northbound)

Fix types vary from rebuilding
to improvements

Two drain crossings are being replaced

LEGEND



Bridge work



County drain work



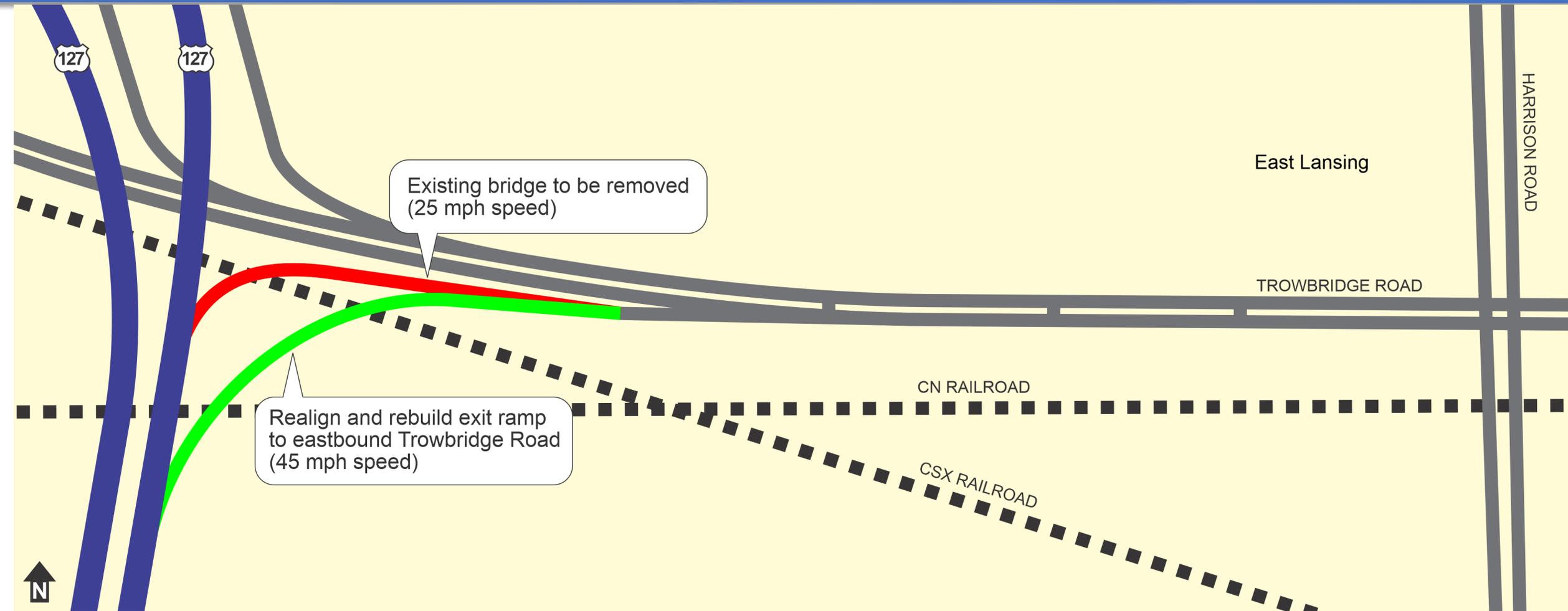
Northbound US-127/westbound I-496 exit ramp to Trowbridge Road



Existing ramp and bridge to be removed (25 mph speed)



Northbound US-127/westbound I-496 exit ramp to Trowbridge Road

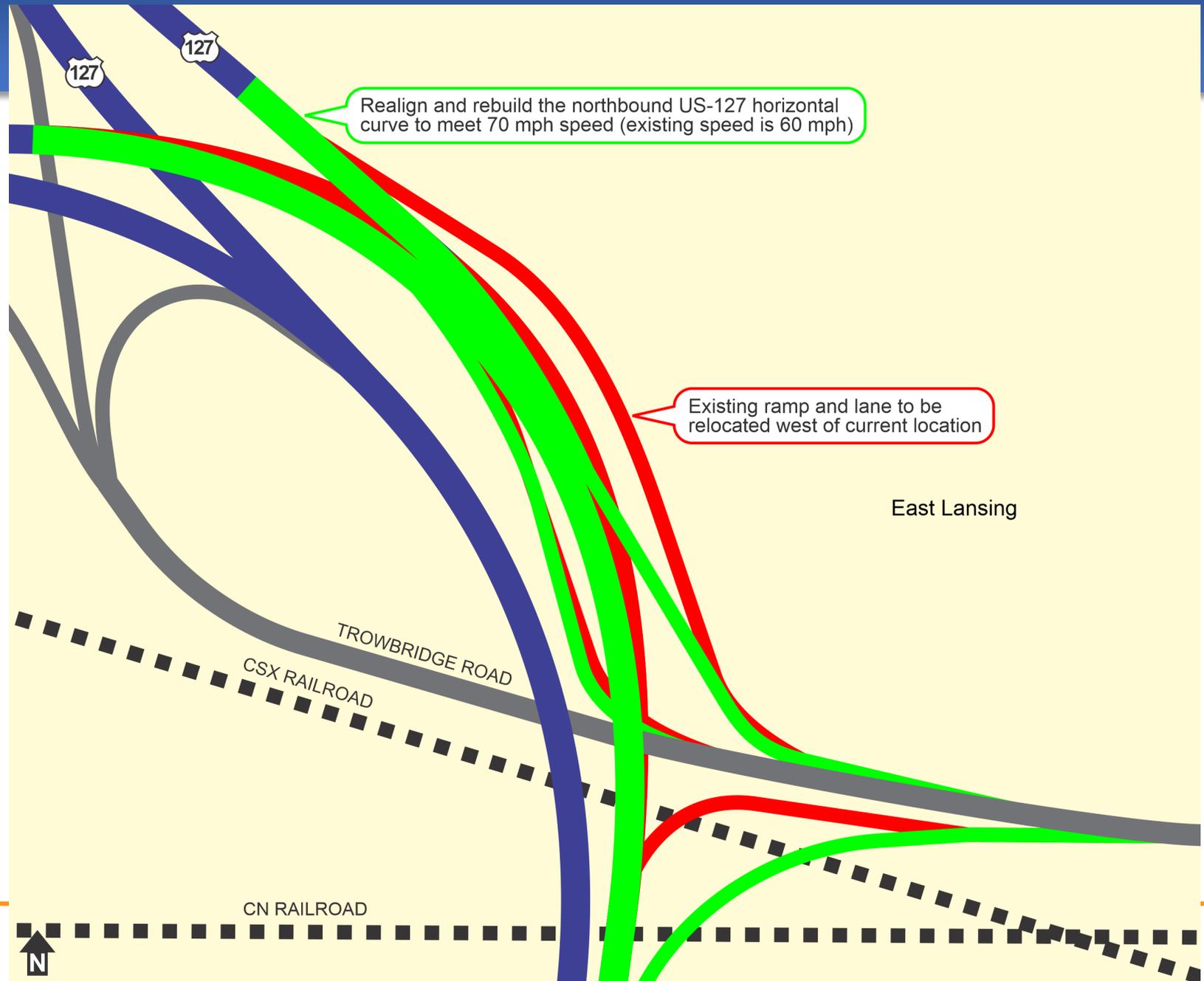


Northbound US-127

Project information:

Northbound US-127 horizontal curve to meet 70 mph design speed

Westbound Trowbridge Road ramp to northbound US-127 to move about 150 feet west



2023 construction work tasks

2023 Construction work tasks:

Preparation work in advance of 2024 construction.

Shoulder upgrades to accommodate temporary traffic during 2024 construction.

Building temporary crossovers to maintain traffic during construction.

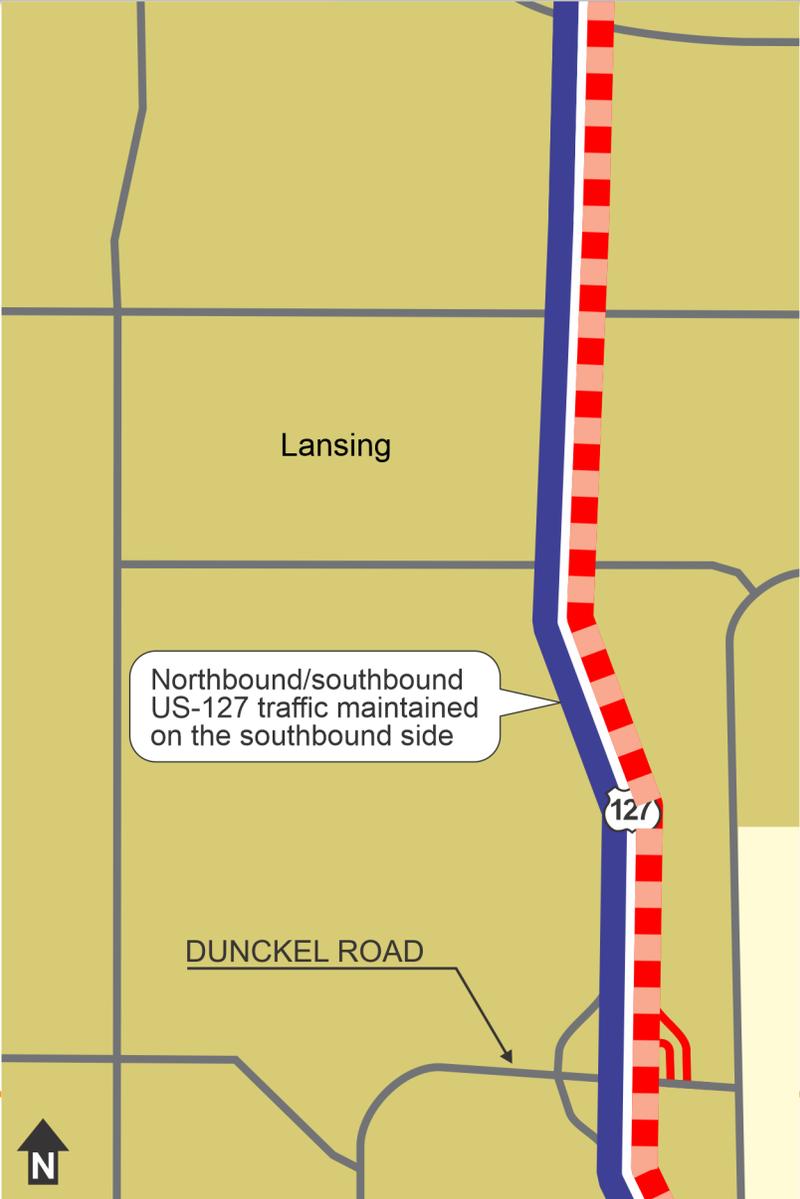


Traffic maintenance during construction

LEGEND



Northbound US-127
under construction



Traffic maintenance during construction

Morning Peak

Temporary median zipper barrier

Northbound lanes closed under construction

Two northbound lanes, one southbound lane open

N



Traffic maintenance during construction

Evening Peak

Temporary median zipper barrier

Northbound lanes closed under construction

Two southbound lanes, one northbound lane open

N



Zipper barrier

Watch this video to see how a road zipper works:

<https://www.youtube.com/watch?v=-MeQnStAH0U&t=1s>



Traffic maintenance during construction: Stage 3A

STAGE 3A

ANTICIPATED: MARCH – JUNE 2024

LEGEND



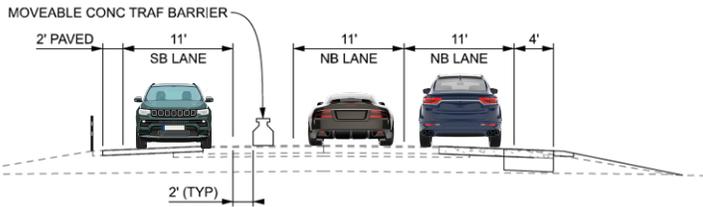
Closed



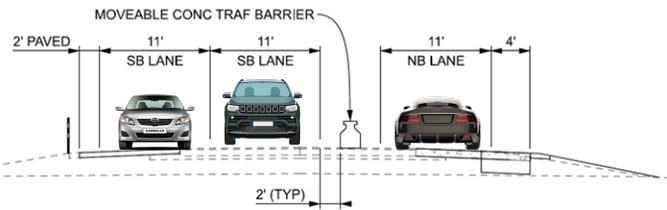
30-Day closure



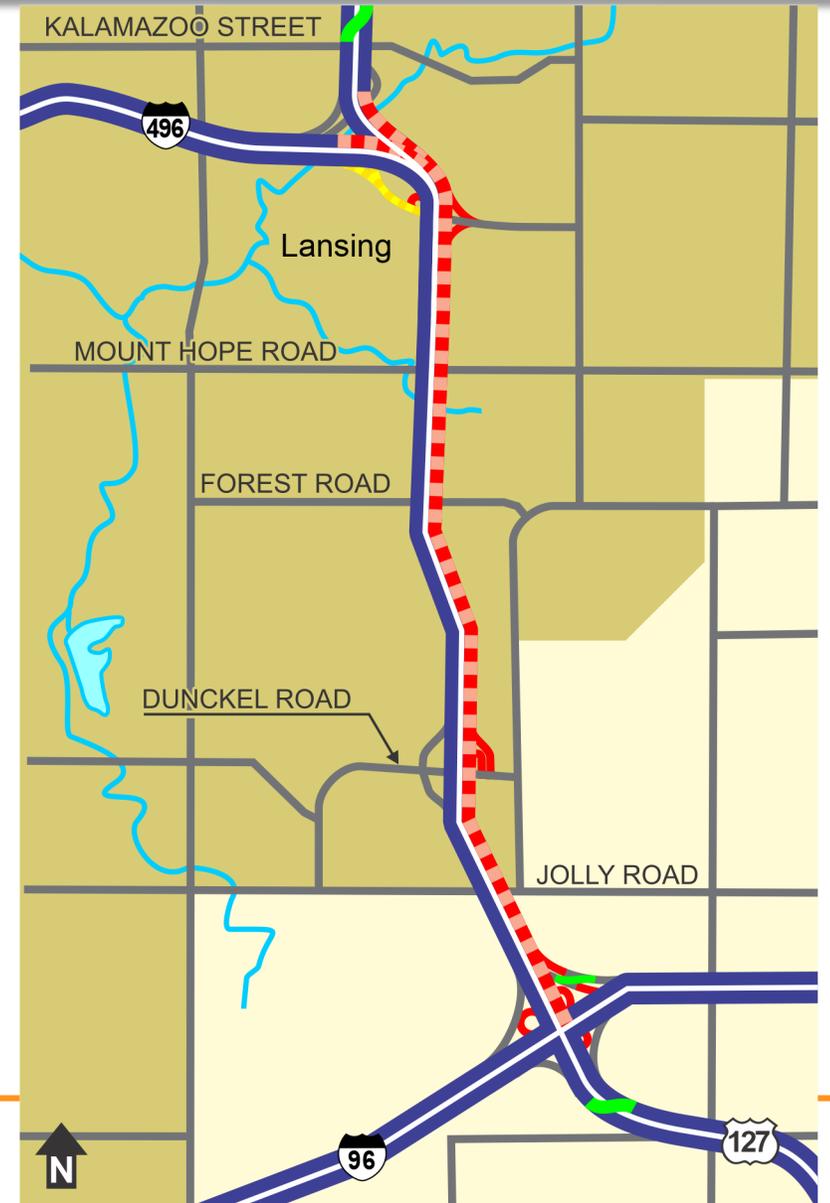
Crossover



STAGE 3A / 3B - AM CONFIGURATION



STAGE 3A / 3B - PM CONFIGURATION



Traffic maintenance during construction: Stage 3B

STAGE 3B

ANTICIPATED: JUNE – NOVEMBER 2024

LEGEND



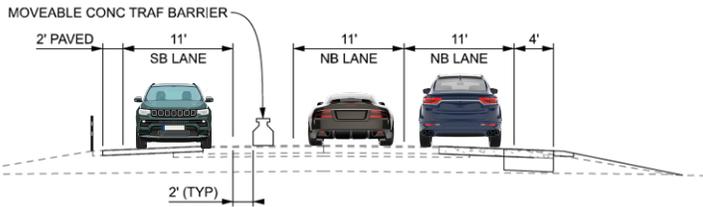
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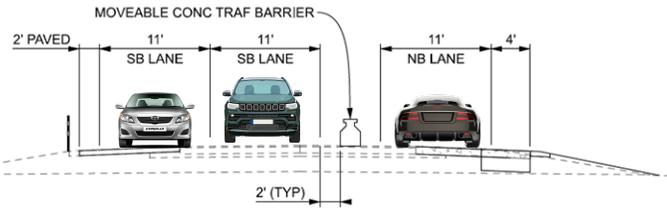
30-Day closure



Crossover



STAGE 3A / 3B - AM CONFIGURATION



STAGE 3A / 3B - PM CONFIGURATION

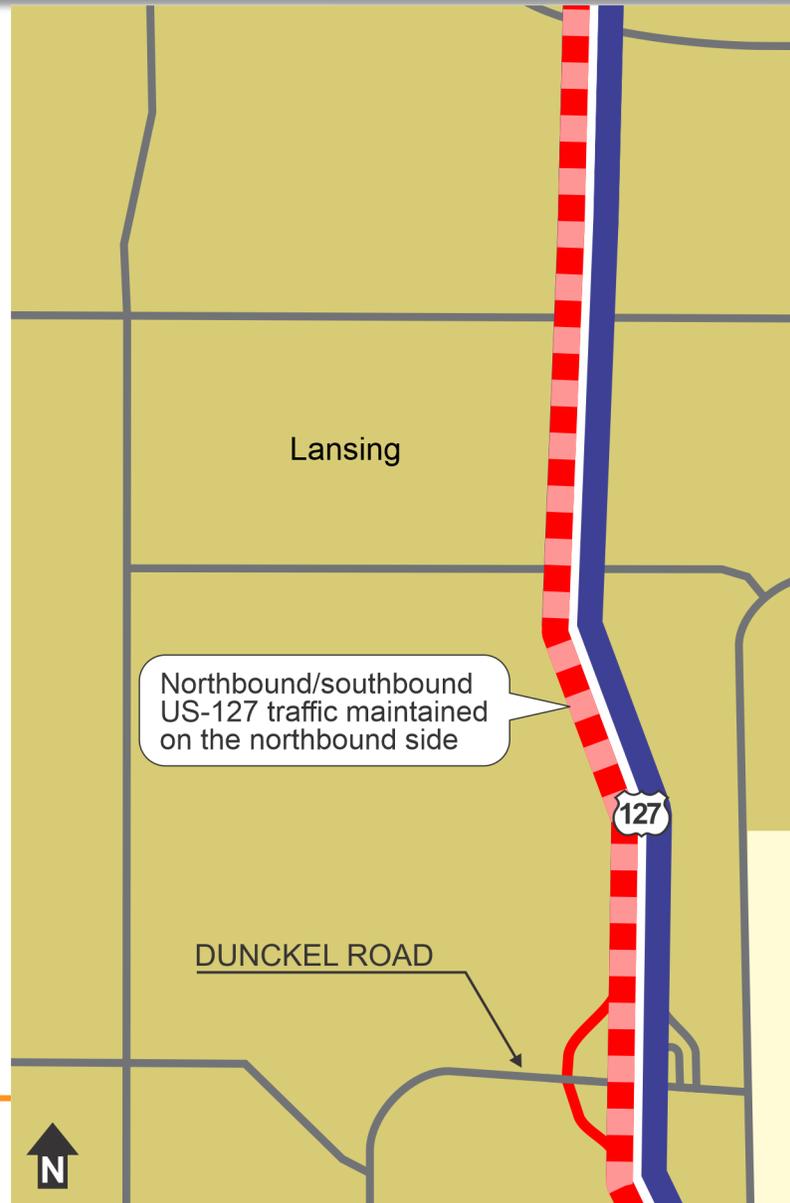


Traffic maintenance during construction

LEGEND



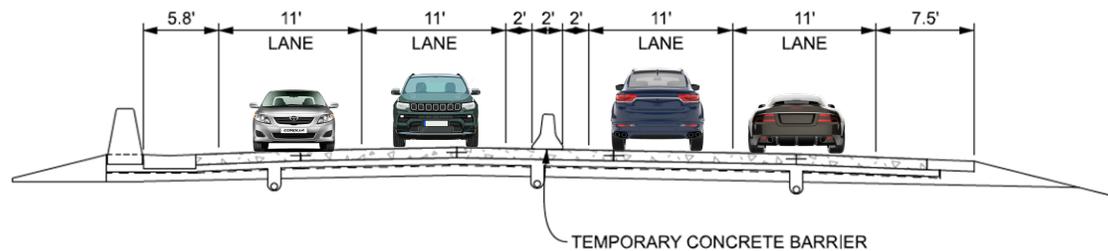
Southbound US-127
under construction



Traffic maintenance during construction: Stage 4

STAGE 4

ANTICIPATED: MARCH – NOVEMBER 2025



STAGE 4A AND 4B - NORTH OF DUNCKEL

LEGEND



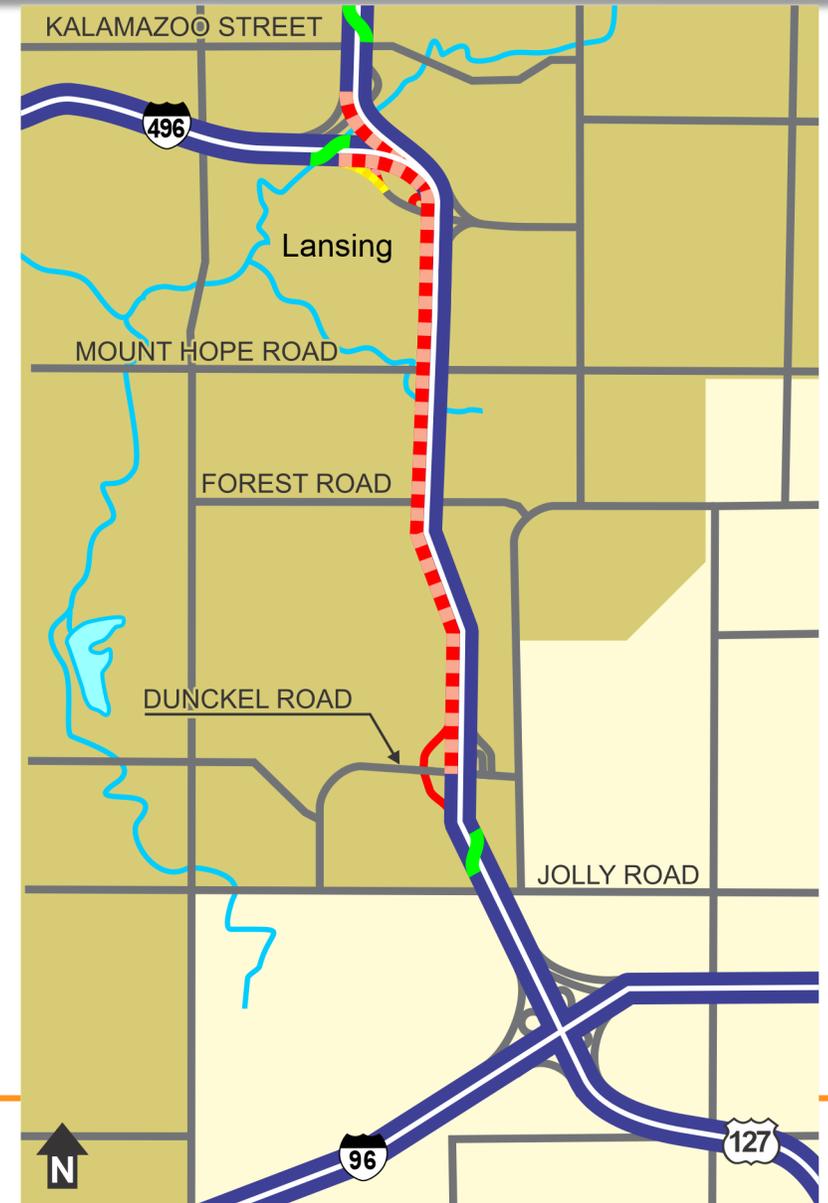
Closed



30-Day closure



Crossover



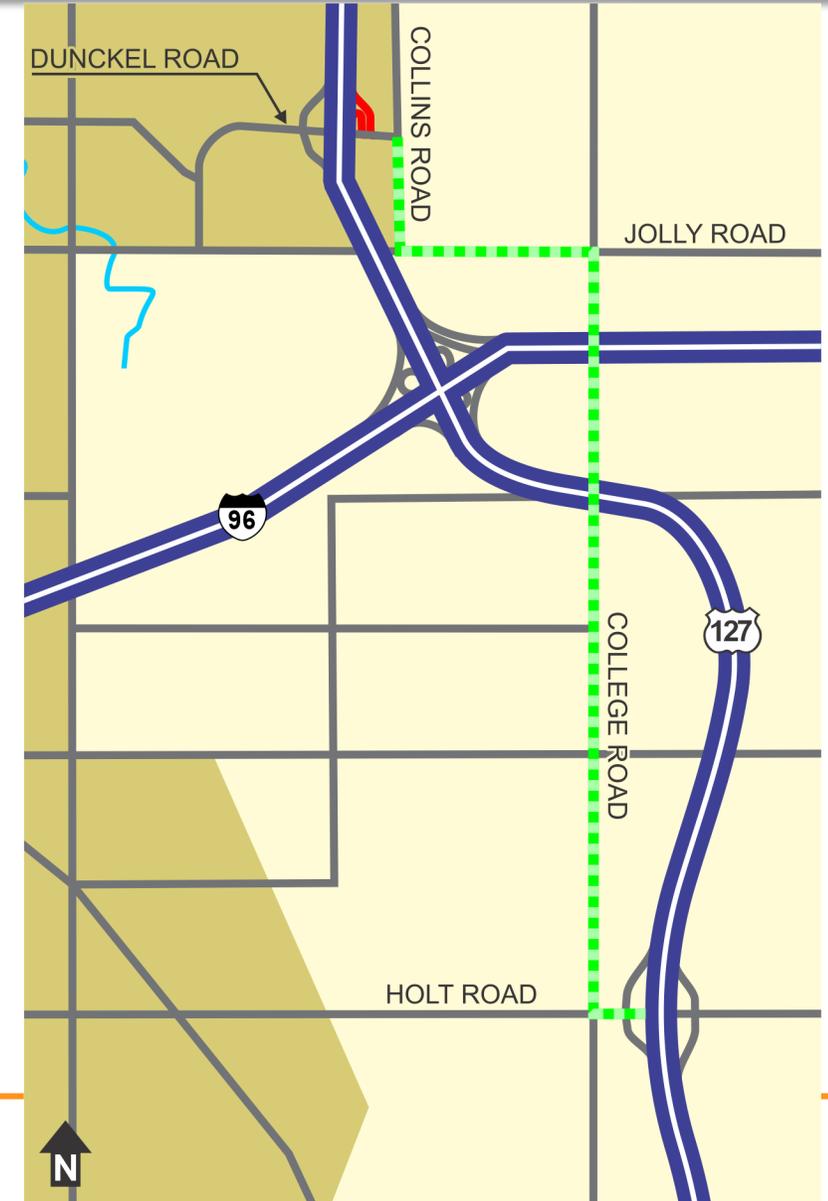
Northbound US-127 Dunckel Road exit closure detour

Detour (hospital route):

- Northbound US-127 exit to Holt Road
- Westbound Holt Road
- Northbound College Road
- Westbound Jolly Road to Collins Road

LEGEND

-  Ramp closed
-  Northbound detour route



Southbound US-127 Dunckel Road exit closure detour

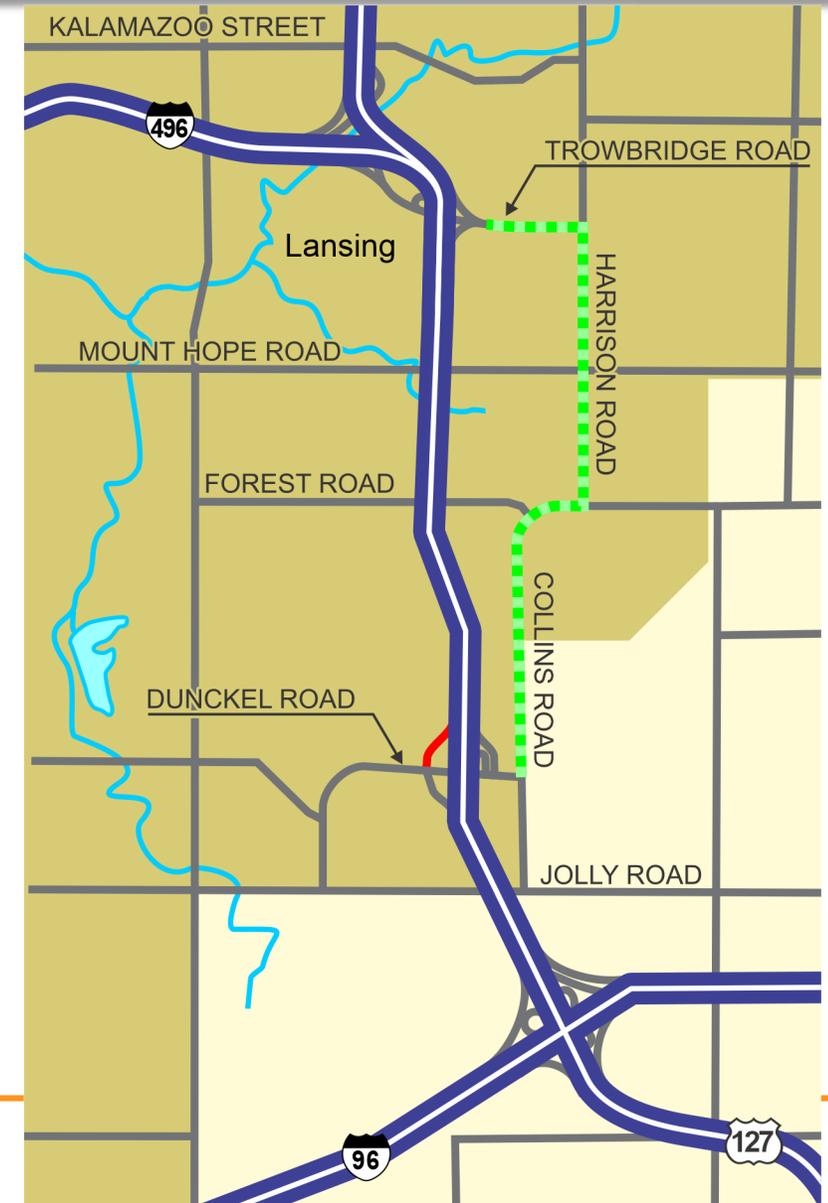
Detour:

- Southbound US-127 exit to Trowbridge Road
- Eastbound Trowbridge Road
- Southbound Harrison Road
- Westbound Forest Road to Collins Road

LEGEND


Ramp closed


Southbound
detour route



Northbound US-127 Trowbridge Road exit closure detour

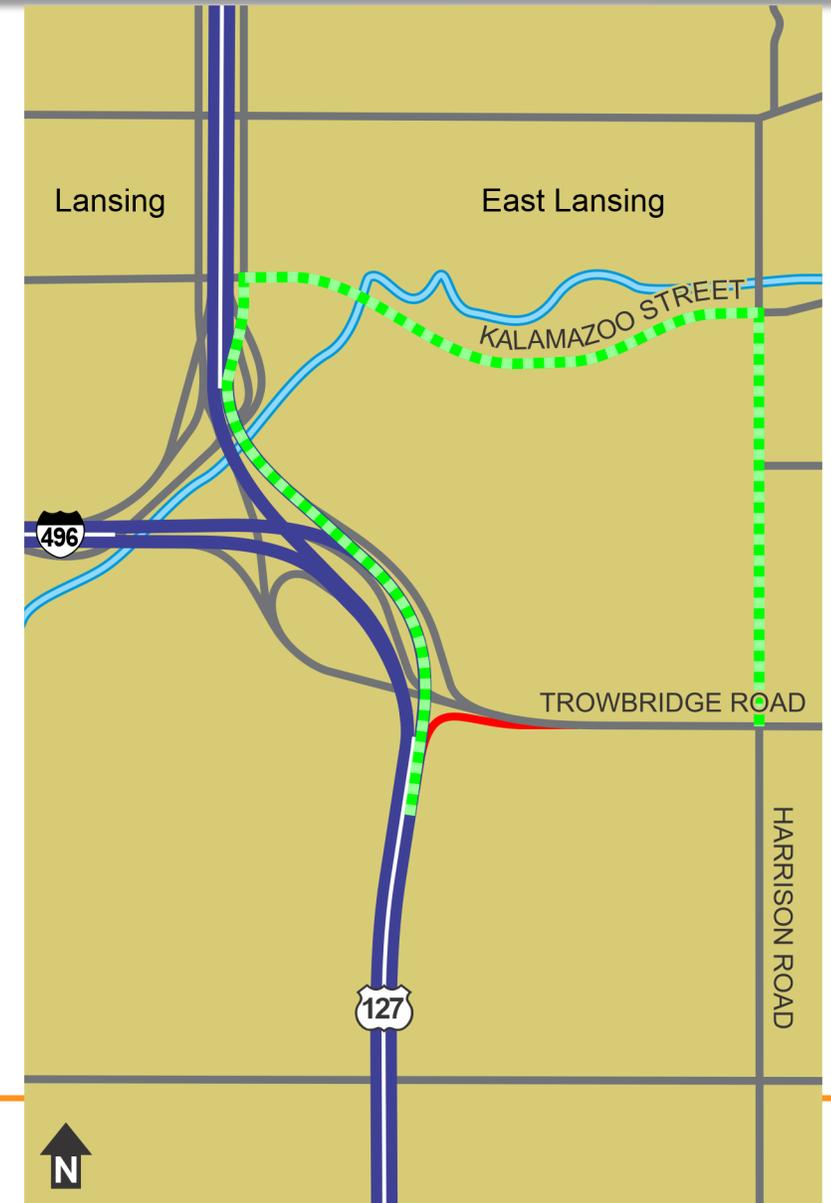
Detour:

- Northbound US-127 exit to Kalamazoo Road
- Eastbound Kalamazoo Road
- Southbound Harrison Road to Trowbridge Road

LEGEND


Ramp closed


Northbound
detour route



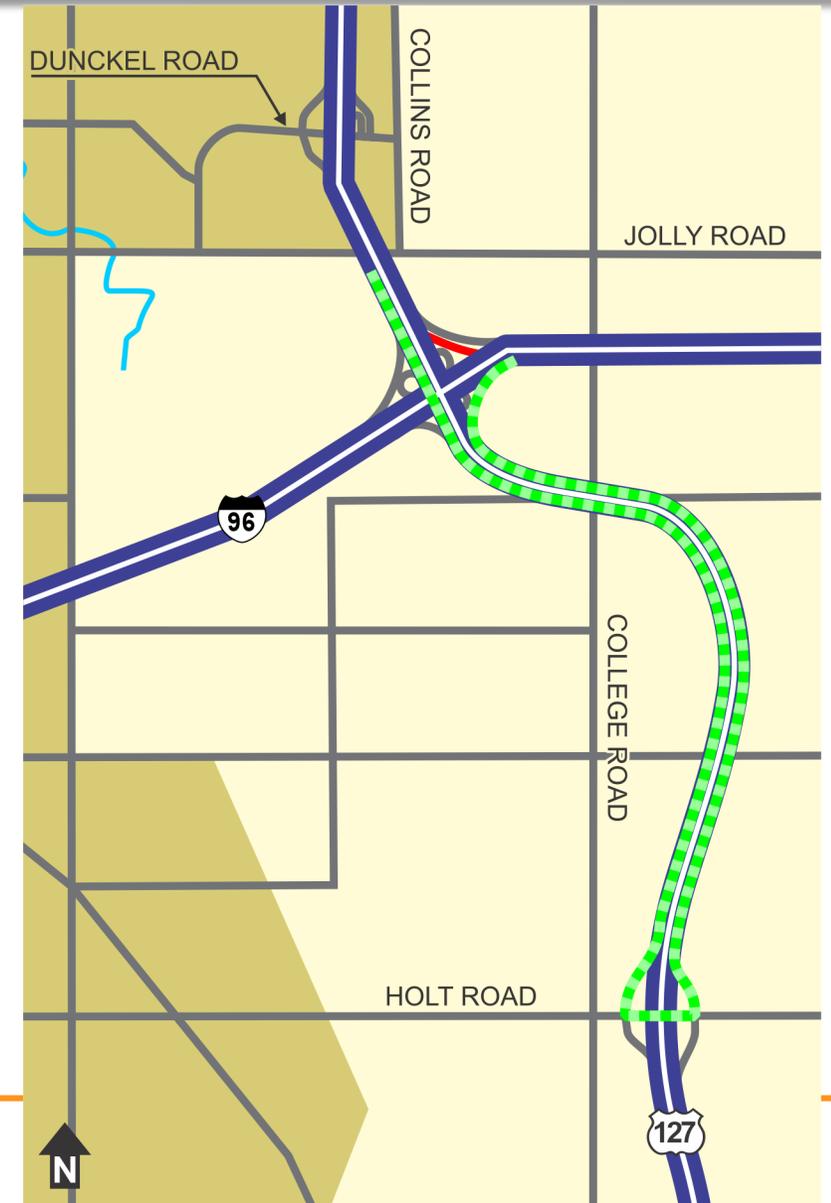
Southbound US-127 Exit to Eastbound I-96 Detour

Detour:

- Southbound US-127 exit to Holt Road
- Eastbound Holt Road
- Northbound US-127 to eastbound I-96

LEGEND

-  Ramp closed
-  Southbound detour route



Outreach

Future public outreach:

- Additional meetings as needed/requested throughout the project and based on the proposed construction schedule.
- Other opportunities to connect:
 - Website: www.Michigan.gov/127Corridor
 - Check website for updates, presentation slides, future meeting links, dates and times, etc.
 - Subscribe to US-127 updates.



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