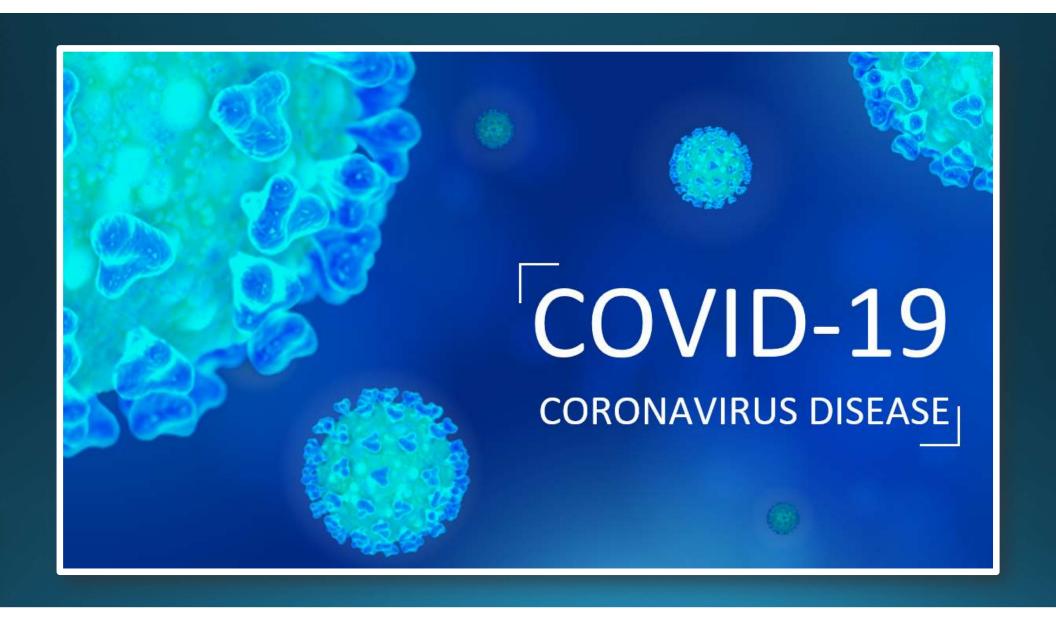
# County Engineers Workshop MDOT Update February 9, 2021

Director Paul C. Ajegba, P.E. Michigan Department of Transportation



#### Today's Topics

- 2020 Historic Year
- Work Zone Safety
- County Road Association Update
- Partnership Success Stories
- Bridge Bundling
- Monroe Garage Update
- Midland Flooding



#### **Change in Statewide Daily Traffic Volumes**

2019 to 2020



Source: MDOT Bureau of Transportation Planning - data from 108 continuous count stations around Michigan

# Michigan State Police ticket driver going 180 mph on I-75 in Monroe County -Detroit Free Press

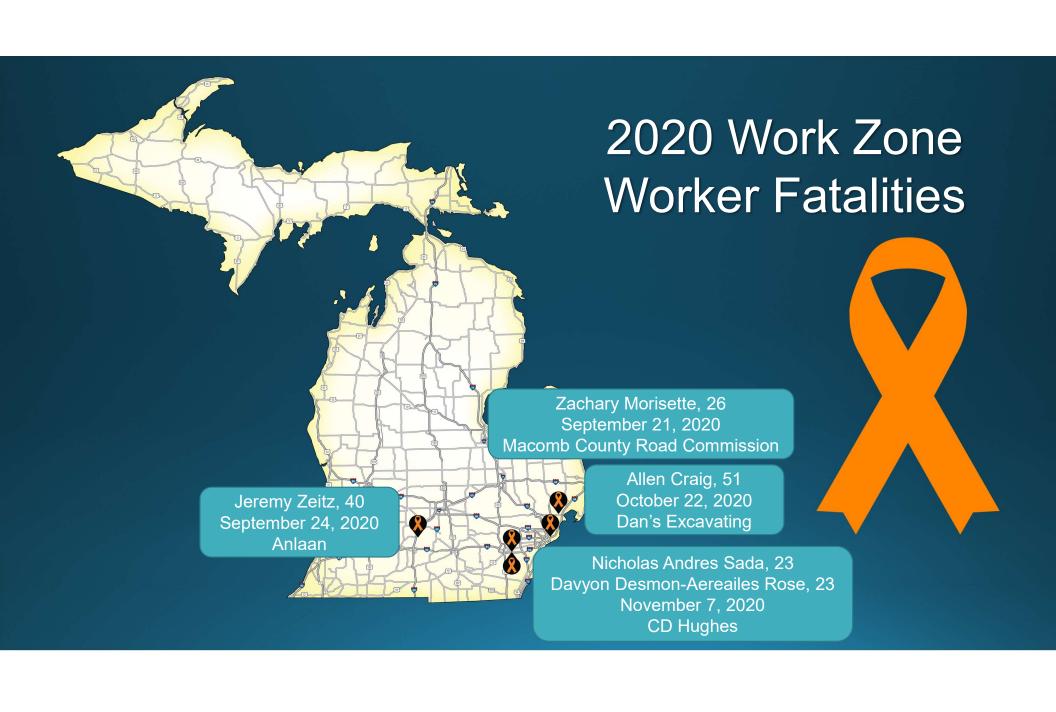
Michigan State Police ticketed a driver for going **110 mph** over the speed limit.

Police stopped the driver on southbound I-75 — a 70 mph highway — about 11:45 p.m. April 19 near Sigler Road in Monroe County's Berlin Township, said MSP First District Lt. Brian Oleksyk.

It's just one example of an increase in high-speed driving amid the novel coronavirus pandemic, Oleksyk said. Though police are limiting traffic stops right now out of concern for the spread of COVID-19, troopers are forced to make a stop when someone goes that fast, Oleksyk said.

The driver puts themselves, everybody else on the road, and the officer trying to make the stop in danger, he said.

"If there was a crash, to me, there's only one outcome at that high of speeds, and that's death," he said.





#### **TODAY'S TRAFFIC CHALLENGES**



36,120

FATAL MOTOR VEHICLE CRASHES IN THE UNITED STATES (2019)

COORDINATION WITH LAW ENFORCEMENT &
TRAFFIC OFFICIALS

Toward Zero Deaths

4

TRAFFIC OPERATION CENTERS

MANAGING TRAFFIC
INCIDENTS STATEWIDE

4,564

FATAL CRASHES INVOLVING LARGES TRUCKS & BUSES IN THE UNITED STATES (2017) 974

FATAL CRASHES IN MICHIGAN (2019)

WORK ZONE
CRASH OCCURS
EVERY 5.4 MINUTES

**INVESTED IN SMART MOBILITY** 















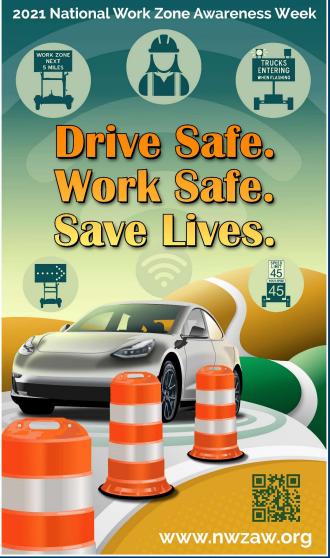


#### National Work Zone Safety Awareness Week April 26-30, 2021



- ✓ April 26: National Safety Stand Down Day
- ✓ April 27: National Media Event, *location to be determined*
- ✓ April 28: National Go Orange Day





# CRA / MDOT Contract Negotiations

- Negotiations 99% Complete
- · Collaborative effort between:
  - DTMB facilitators
  - MDOT Leadership and Negotiations Team
  - CRA Leadership and Negotiations Team
  - Office of Commission Audit
  - Attorney General and CRA Legal Counsel







# CRA / MDOT Contract Negotiations

- Sponsor Expectations:
  - Identify Issues with the Current Contract
  - Generate Ideas, Build Consensus Around Solutions
  - Be Bold and Innovative by Negotiating in a Collaborative Partnership
- There are about 100 changes to the new contract including language clarification, elimination of redundancies and a thorough legal review.
- Every section of the contract was collaboratively reviewed by the negotiations team for relevance and legal accuracy.







#### Negotiations Schedule and Milestones

Oct. 2019

Kick-Off Workshop

Dec. 2019 – Jan. 2021

> Negotiations Meetings (approximately 30)



Feb. 2021

Resolution of Final Issue



Mar. 2021

Contract Language Approved by Steering Team

Assembly of Prioritized Contract Issues

Oct.-Nov. 2019



Feb. 2021

Final Draft Contract Language

Mar. 2021

Obtain CRA Approval of Language

Apr. 2021







#### Negotiations Schedule and Milestones



Contract Language Finalized



May-June 2021

Administrative Board Approval



Aug. 2021

Conduct Joint Contract Training

Final OCA and AG Review



Apr. 2021

Distribution of New Contracts to County Agencies



**June 2021** 

Execution of new contracts with MDOT and county agencies



1 Oct. 2021







# 100 Street over US-131 Kent County, Grand Region

- The existing bridge experienced several high load hits (13) in the past few years.
- As a result of engagement with FHWA in completing a Planning and Environmental Linkages (PEL) document, the bridge project was advanced for construction in 2020.





# 100 Street over US-131 Kent County, Grand Region

- Traffic Impact: Full detour of 100<sup>th</sup> Street for one construction season (April 2020 to Sept 2020)
- Original bridge constructed in 1957, 26' clear roadway (36'6" total width), 30WF116 beams, length 168'10", main spans 53'9"
- New bridge: 27" prestressed Concrete Box beams, Length 129'2", span 64'7", width 86'4.5", conventional footings and full height abutment walls





## 100 Street over US-131 Kent County, Grand Region

- Project Cost: \$10.8 million
- Contractor:
  - Kamminga & Roodvoets, Inc., Prime
  - Anlaan Corporation, Sub (Bridge)
- Bridge Replacement, Ramp Improvements, Traffic Signals, 100<sup>th</sup> Street Improvements, Non-motorized facility
- Under clearance improved from 13'11" to 16'3"



### **Local Agency Bridge Conditions**

	Structure Condition Dashboard				
Jurisdiction       LA Statewide       ✓         Structure Inventory Summary	Count	Structure Condition Summary	Count	SD/FO Summary	Count
Highway (NBI) Structures greater than 20' Highway Structures less than 20' Rail Road Structures (X) Pedestrian Structures (P) Other Non-Highway Structures (V, Plaza)  Additional Bridge Inventory Information Posted Structures Closed Structures Fracture Critical Structures	7,323 6,684 315 250 66 8 1,051 72 61 1,186 7	Good/Fair (5 or Greater)  Highway included in NBI  Non NBI Structures (<20, RR, Ped, etc.)	d in NBI 5,763 *Functionally Obsolete	920 647 5,074	
		Poor (4)  Highway included in NBI  Non NBI Structures (<20, RR, Ped, etc.)	<b>623</b> 520 103	*No Current SD/FO Rating  NBI Condition - Goals Summary  *Good/Fair (5 or Greater) Freeway Non-Freeway  *Poor/Serious/Critical (4 or Less) Freeway Non-Freeway *Good NHS Deck Area *Fair NHS Deck Area *Poor NHS Deck Area	3,676 Pct.
		Serious/Critical (3 or less)  Highway included in NBI  Non NBI Structures (<20, RR, Ped, etc.)	484 400 84		86.2% 0.0% 86.2% 13.8% 0.0% 13.8% 33.5% 53.0% 13.5%
		Unrated Structures  Highway included in NBI  Non NBI Structures (<20, RR, Ped, etc.)	14 1 13		

## Bridge Bundling

RFQ June 2020 Shortlisting of Proposers August 2020

RFP November 2020

One-on-one meetings December/January Proposals Due February 2021 Contract Award March 2021

- 1. City of Jackson
- 2. City of Lapeer
- 3. Clinton County
- 4. Clinton County
- 5. Eaton County
- 6. Hillsdale County
- 7. Ingham County
- 8. Ingham County
- 9. Lenawee County
- 10. Livingston County
- 11. Livingston County
- 12. Luce County
- 13. Macomb County
- 14. Macomb County
- 15. Macomb County
- 16. Muskegon County
- 17. Ottawa County
- 18. St. Clair County
- 19. St. Joseph County
- 20. Wayne County



Contract
Award
March
2021

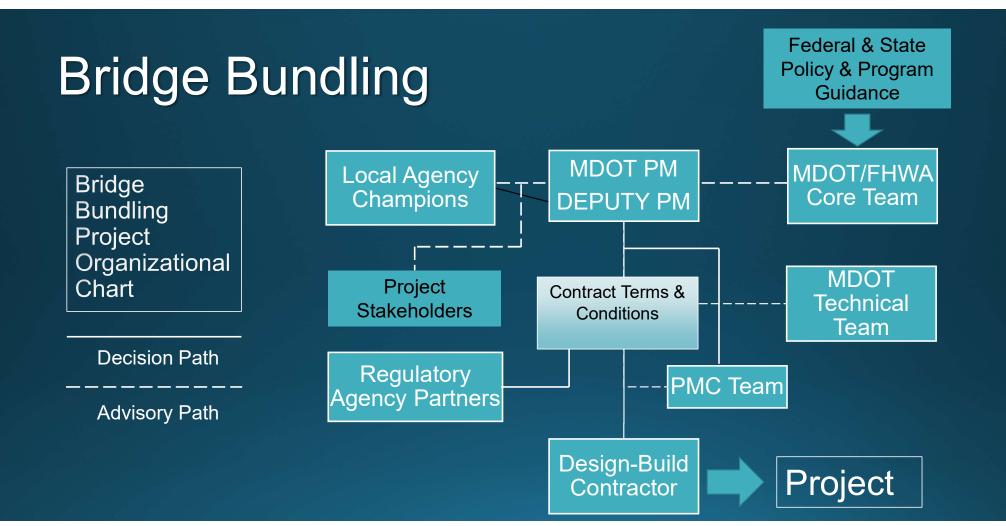
Meetings with Local Agencies Final Design Work

Construction Phase

Final Acceptance

Open to Traffic

Summer 2021 to Fall 2023





#### Monroe County Maintenance Contract





- Ferroival Services (3 Year Contract)
  - Effective Start Date: October 1, 2019
  - Expiration Date: September 30, 2022
- Total value of 3-year contract is approximately \$9,030,000 million
  - 3 one-year extensions are available
  - Services cover approximately 600.00 lane miles

#### Monroe County Next Steps



Architectural design work ongoing and nearing completion

Site investigation ongoing

Construction start:

Summer of 2021

Construction completion:

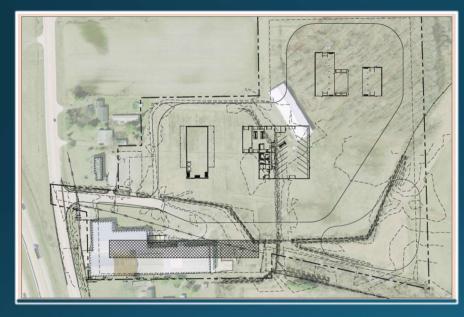
Summer of 2022

## Monroe County Future Garages

**OPTION 1** 

West Site Full Build Out

East Site Full Build Out





- Monroe East and West will have 4 buildings each (a Main Building, Warm Storage, Cold Storage, Salt Barn)
- West site garage is located near US-23 Dundee area
- East site is located near the US-24 (Telegraph Road)and I-275 area



## Monroe County Future Garages

**OPTION 1** 

South Site Full Build Out



- Monroe South will have 1 building only (a Salt Barn)
- South site salt building is near the southern end of US-24 (Telegraph Road near the abandoned police post)



#### Monroe County Garages - Concept

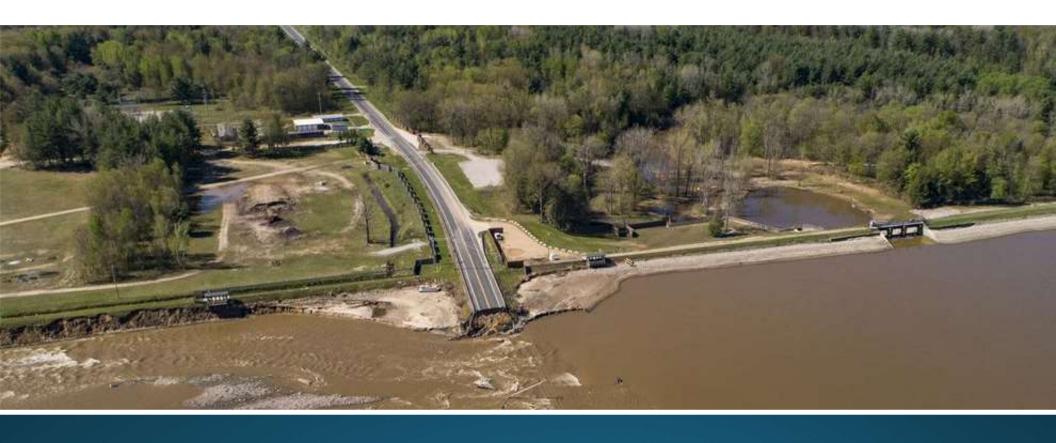
- Buildings will be Pre-engineered Metal Buildings (PEMB)
- Rendering is a Concept; colors have not been decided
- Pictures to the right are of a similar type building constructed for the Ohio DOT



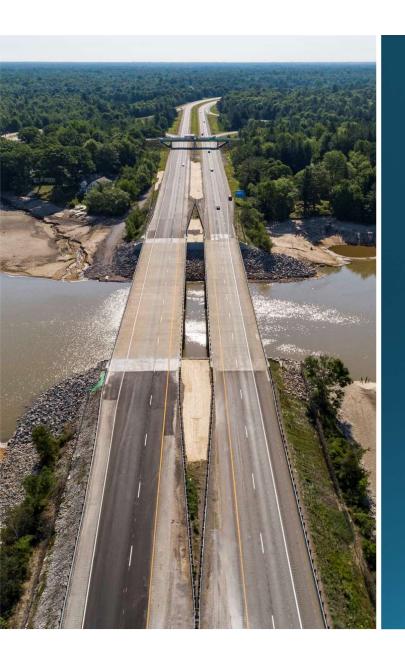




# Midland County Dam Failures and Flooding



# M-30 at Edenville



## US-10 Completion

"Following this historic flooding, I asked MDOT to make reopening roads and bridges a top priority," said Governor Gretchen Whitmer. "Given the importance of US-10 to the region's economic vitality, I want to thank Director Paul Ajegba, his team and the workers who repaired the bridge so quickly."

#### Midland Contractors

#### **Cleared Debris**

Contractor: Fisher Contracting

Duration: 5 weeks

Cost: \$1,419,043 (at Tittabawassee River and Wixom Lake)

#### **US-10** at Sanford Lake

Contractor: Fisher Contracting

Duration: 5 weeks (8.5 weeks for weir portion only)

Cost: \$2,185,301 (includes sheeting weir for headcutting mitigation)

#### M-30 at Tittabawassee River

Contractor: Fisher Contracting

Duration: 7 weeks Cost: \$1,139,555







#### **Curtis Road**

Midland County, Bay Region

- Repairs designed by AECOM and OHM utilizing as-needed MDOT's PMC consultant contract
- Let via Emergency Contract with 5 contractors submitting bids
- Fisher Contracting was the low bid at just under \$1.2M
- Mobilized on October 7<sup>th</sup> and open to traffic on November 12<sup>th</sup>





# Curtis Road Midland County, Bay Region

- Top photo shows significant scour and exposed piles at the west abutment.
- Bottom photo shows the aftermath of the dam breach looking southwest. The entire west approach and nearly 600 feet of roadway were washed away.
- Note the blue watermain that was exposed and moved by the force of the water. It should run in an east-west direction.

#### Curtis Road

Midland County, Bay Region

Construction was completed in 5 weeks.

- Significant quantities:
- 8500 Cyd of Embankment
- 2000 Cyd of Structure Embankment
- 3400 Tons of Riprap
- 900 Feet of Storm Sewer
- 4400 Syds of Slope Restoration



# Questions?

