

# What is Being Piloted and How Is It Going?

Chris to share his  
screen

**WORK ZONE  
SAFETY**  
— TASK FORCE —



# What is the Work Zone Safety Task Force?

## Task Force Purpose

As a partnership between MDOT and the heavy construction industry in Michigan, work together to advance the effort of looking at ways to go above and beyond the current mode of operations to make work zone safety an even greater aspect of our culture.







## Technology

Marc VanTil, Give 'em A Brake  
Craig Innis, MDOT



## Enforcement

Kim Webb, MDOT  
Rob Coppersmith, MITA



## Balancing Mobility & Safety

Aden Shea, PK Contracting  
Steve Brink, MDOT



## Culture

Mike Malloure, CA Hull  
Tom Fox, MDOT



## Flexibility to Implement Safety

Ryan O'Donnell, Anlaan  
Craig Heidelberg, MDOT



## Marketing

Lindsey Renner, MDOT  
Mike DeFinis, lafrate



## Education

Brian Morley, Great Lakes Eng.  
Chris Brookes, MDOT & Deven Rau, Cadillac Asphalt \*

\* Joining in 2021:  
John Osika, Operating Engineers  
Daryl Gallant, Laborers

# Pilot Projects and Other Initiatives

- Safety Contingency Proposal Pilot
- Industry Safety and Constructability Reviews During Design Pilot
- Safety and Mobility Decision Tree
- Work Zone Collaboration Special Provision Pilot
- Safety Related Special Provision Updates
- Innovative Traffic Device Pilots
- Safety Award and Pledge





# Safety Contingency Proposal – Summary

- The goal of this pilot project is to gauge the impact to MDOT's and Industry's goal of enhancing safety in the work zone for the worker and/or the public by having flexibility to draw from a Safety Contingency pay item.
- The pilot was created to possibly resolve the concerns from Industry that Resident Engineers were reluctant to increase traffic control related project costs.



# Safety Contingency Proposal – Process

- Have an approved Special Provision including FHWA's Approval
- Selection of the pilot projects
  - Approvals through Action Teams 3
- Determination of the appropriate dollar amount
- Include the Safety Contingency Special Provision and pay item into the pilot project final package



# Safety Contingency Proposal – Cost Template

## SCP Funds

- \$10,000
- \$20,000
- \$30,000
- \$40,000

## Project Construction Costs

\$750,000 < \$ 3.5 million  
\$3.5 million < \$ 15 million  
\$15 million < \$ 50 million  
\$50 million <





# Safety Contingency Proposal – Uses

- Changes to the Maintaining Traffic Plan
- Changes to the Staging
- Addition of Innovative Traffic Devices
- It is not intended to solely adjust existing traffic control device quantities





# Safety Contingency Proposal – 2021 Pilots

Region	Route	Job #	Const. Costs	SCP Cost	Scope of Work
Superior	US-41	128702	\$10 million	\$20,000	Two Course HMA M&F
Metro	I-275	111073	\$260 million	\$80,000	Reconstruct
University	I-94	210043	\$15 million	\$20,000	Two Course M&F, bridge cpm
Grand	I-196	118558	\$26 million	\$30,000	Reconstruct, bridge work
Southwest	US-12	210919	\$4.3 million	\$20,000	CPM Single Course HMA M&F



# Safety Contingency Proposal – 2021 Submittals

- JN 210043 I-94 University Region
  - Proposed use of T17 deck patching material for a couple of days cure time versus 28 days with C-L Deck Patching.
  - The Safety Contingency would pay for the difference in material costs.
  - A SCP must not alter the essential functions or characteristics of the project
  - Denied because long term durability unknown with T17 patching material.





# Safety Contingency Proposal – 2021 Submittals

- JN 118558 I-196 Grand Region
  - Discussed the use of a Truck Entering Alert System to warn motorists when construction vehicles are entering traffic.
  - Never officially submitted because the ingress/egress plan for construction changed and the device was no longer needed.



# Safety Contingency Proposal – 2021 Submittals

- JN 210043 I-94 University Region
  - Discussed closing a bound of I-94 at night while in the split merge to greatly reduce exposure to the worker.
  - Lighting for the night work could've been paid from the SCP funds.
  - Night work did not work with the Contractor's plan for the project.





# Safety Contingency Proposal – 2021 Submittals

- JN 111073 I-275 Metro Region
  - Addition of the Stopped Traffic Advisory System due to the backups and associated crashes.
  - Approved devices by MDOT to reduce congestion related backups.
  - Proposal was approved.



# Safety Contingency Proposal – 2021 Submittals

- JN 111073 I-275 Metro Region
  - Addition of Digital Speed Limit Trailers to the project.
  - The project is 24 miles long with various work activities throughout. The signs would post 45 mph to bring added awareness that workers were present and the slower speed limit.
  - MDOT interested in piloting the device.
  - Proposal was approved.





# Safety Contingency Proposal – 2021 Submittals

- Digital Speed Limit Trailer
  - Speeds can be changed remotely so less exposure to Workers.
  - Contractor has to be diligent in changing the speeds for accuracy and moving the signs to where the workers are located.



# Safety Contingency Proposal – 2021 Summary

- Out of 5 pilot projects, there were 3 official SCP submittals and 2 of those were approved.
- The number of proposals submitted were maybe less than expected.
- Other ideas discussed, helped foster a culture of safety.
- Construction Engineers liked the inclusion of the Safety Contingency Proposal SP on the project.





# Safety Contingency Proposal – Moving Forward

- Only 5 pilot projects in 2021
  - Will pilot on 9 projects in 2022
- Additional awareness needed.
  - In 2022, 8 out of the 9 pilot projects will be on projects that also include the Safety Collaboration SP.



# Safety Contingency Proposal – 2022 Pilots

Region	Route	Job #	Const. Costs	SCP Cost	Scope of Work
North	US-31	131656	\$11.2 million	\$20,000	Two Course HMA M&F
Bay	US-127	210007	\$10 million	\$20,000	Two Course HMA M&F
North	I-75	131805	\$7 million	\$20,000	Two Course HMA M&F
Superior	US-41/ M-28	131846	\$4 million	\$20,000	Reconstruct pavement
Metro	US-24	210084	\$13 million	\$20,000	Two Course HMA M&F w/ bridge CPM work
Grand	US-131BR	201241	\$2 million	\$10,000	Culvert Replacement
Metro	I-96	124103	\$239 million	\$100,000	Flex Route
University	I-75	125868	\$103 million	\$40,000	Reconstruct pavement
Southwest	M-37	210067	\$4 million	\$20,000	Two Course HMA M&F

