MDOT GRAND REGION

BRIDGE MAINTENANCE

Chad Roberts

Kevin Brecker



- Increased Costs
- Decreased Budgets
- 500 Year Design Life
- Plugged Deck Drains







12 Mile Rd over US-131



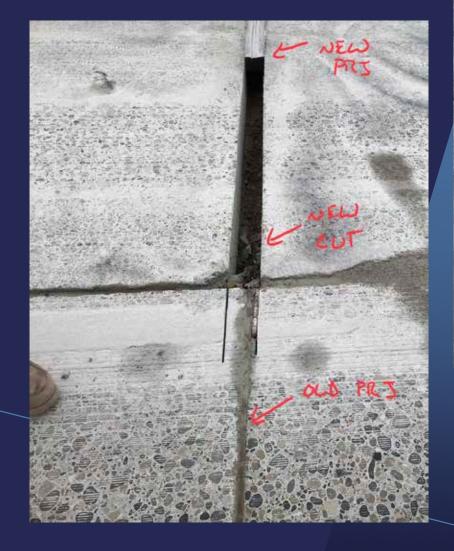


Deck Patch

- RediMix Concrete
- Master Builders 1060Rapid Set Concrete Repair
- Transpo Industries T-17Polymer Concrete



Pressure Relief Joints (PRJ's)







Healer / Sealer



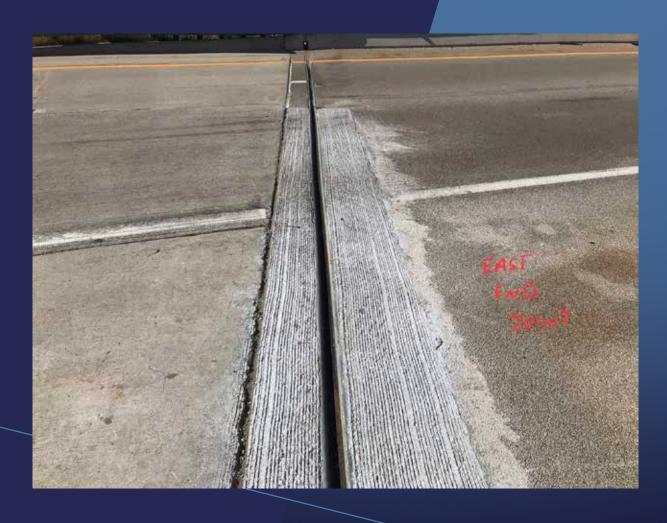


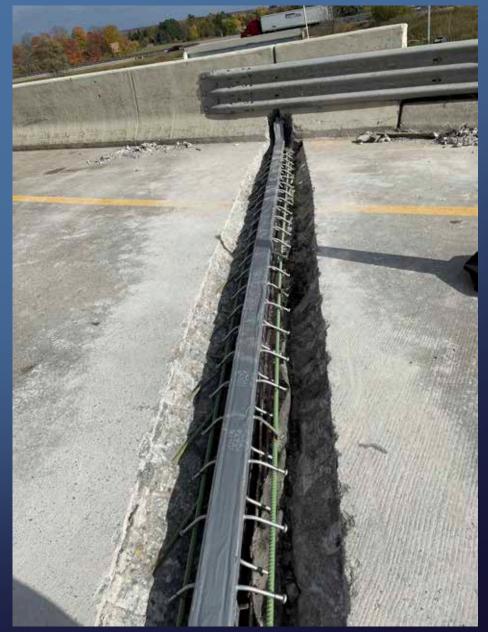
Epoxy Overlay





Expansion Joints





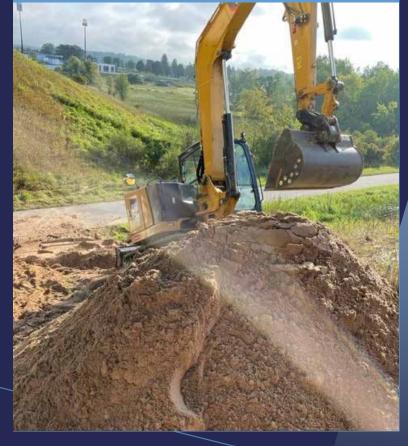
Barrier Wall







Slope Protection

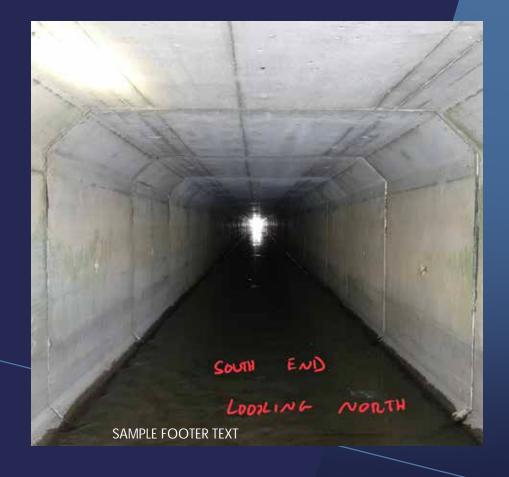








Box Culvert







Temporary Support Base

Aggregate Pad









Bridge Seat



Brush Block



Approach Slabs





12 Mile Rd over US-131

STR # 4994

41132-S09





2023

Phase 1

Concrete Deck Patch

Phase 2

- Mill Deck Surface
- 1060 Deck Patch
- T-17 Deck Patch

Phase 3

- Epoxy Deck Injection
- Epoxy Overlay

Local Agency Permit



Approved by

KENT COUNTY ROAD COMMISSION

APPLICATION FOR USE OF COUNTY ROADS TO DETOUR STATE TRUNLINE

Application Date July 25th/revised Sept 6 , 20 23 Highway Being Closed 12 Mile Rd over US131 Project Limits From West of Wolven Blvd to East of Edgerton Ave Project Date From 1st-August 7th, 7am, 2023 2nd-Sept 11, 7am, 2023 to 1sl-August 14, 3pm, 2023 2nd-Sept 22, 3pm, 2023 Proposed Detour Route EB 12 Mile Detour - SB Algoma Ave to EB 10 Mile to NB Wolven Blvd WB 12 Mile Detour - SB Wolven Blvd to WB 10 Mile to NB Algoma Ave Conditions Two closures for bridge deck repairs over US131. PCMS will be used 5 day prior to the closure for advance notification. The detour will be posted per the attached detour plan. PCMS messaging will be utilized during the closure with the expected open to traffic date. If work concludes early, the road will be open to traffic. 1st Closure-Deck Patching / 2nd Closure-Epoxy injection/Epoxy overlay Each party to this Contract will remain responsible for any and all claims arising out of its own acts and/or omissions during the performance of the Contract, as provided by this contract or by law. This Contract is not intended to increase or decrease either party's liability for or immunity from tort claims, This Contract is not intended to nor will it be interpreted as giving either party a right of indemnification, either by contract or by law, for claims arising out of the performance of this Contract. Signature of MDOT Contact Jacon Guillouse Printed Name Jason Gulkema - Sr. Operation Tech Approved by of Maintenance Department Date

of Traffic Department





Day 1 -3

Hand chip

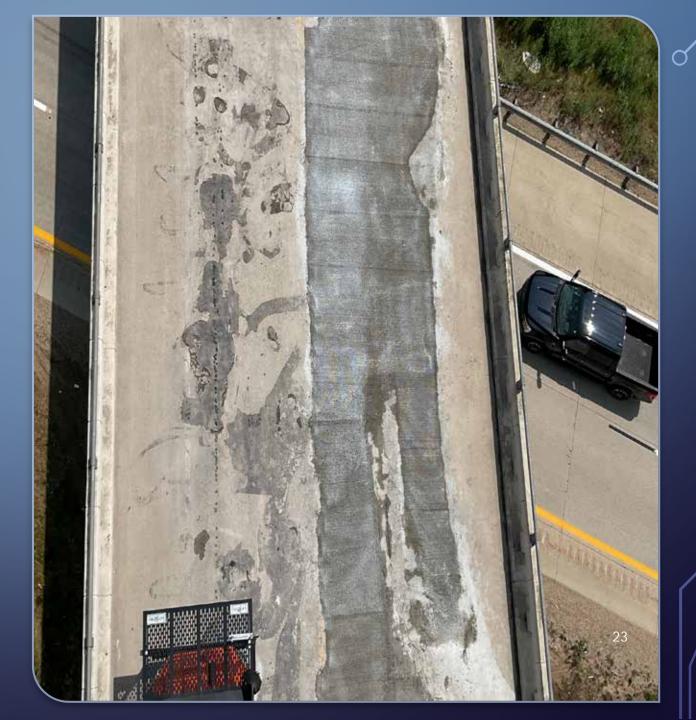
Day 4

Full DepthPatches

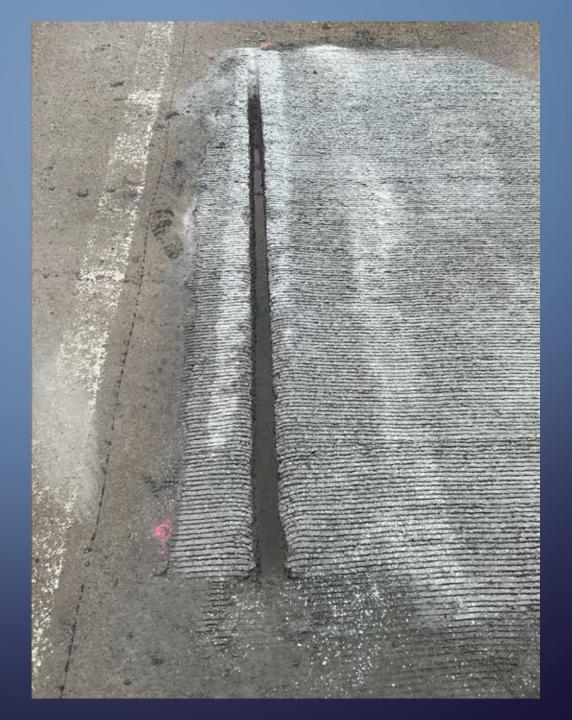
Day 5

18 Cyd's of concrete Grade-D





Caution Wet Concrete!!



Day 1

 Mill Deck Surface to remove Mastic

Hastings Garage

Statewide Region Bridge Support



Day 2

Hand Chip

Day 3

- 4 Cyds 1060 Rapids Set with portable Batch Plant
- 15 Cft T-17 Polymer Concrete

Statewide Region Bridge Support

• T-17

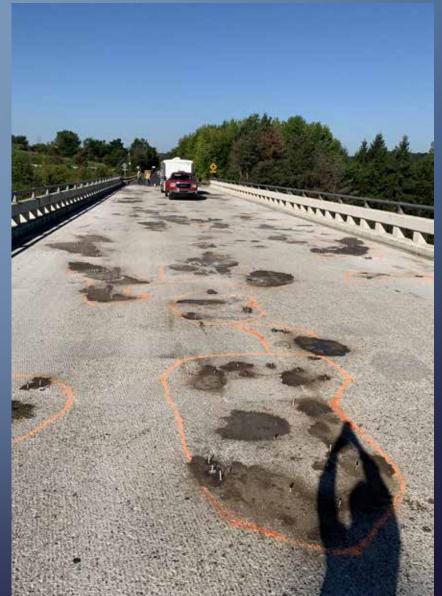


Day 1 - 5

Epoxy DeckInjection

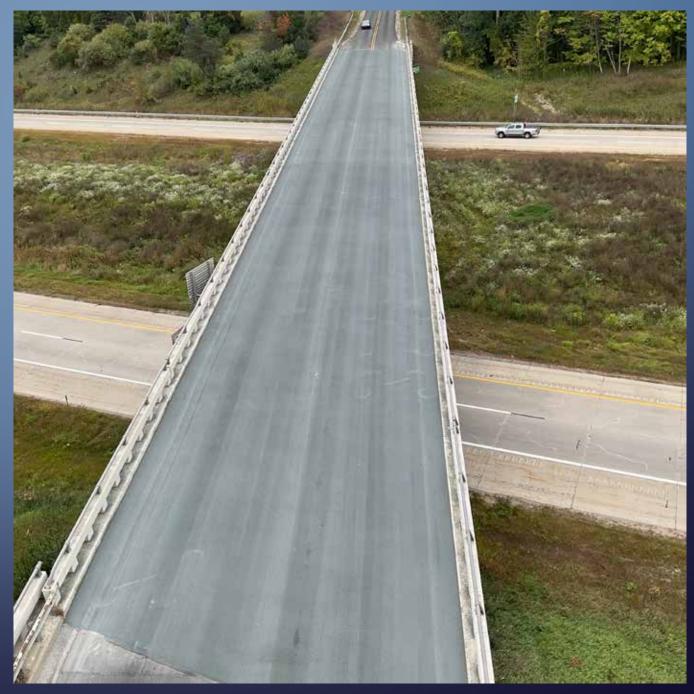
Statewide Region Bridge Support

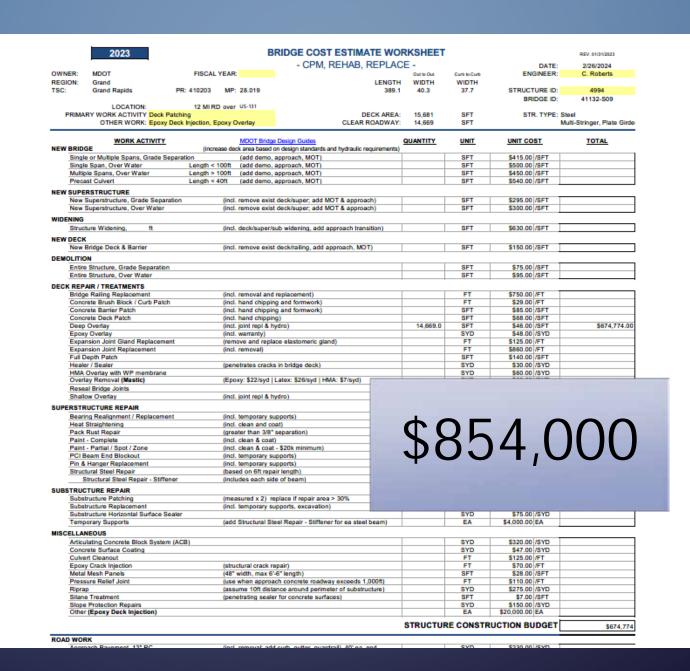




Day 6 - 7Epoxy Overlay Wearing Surface







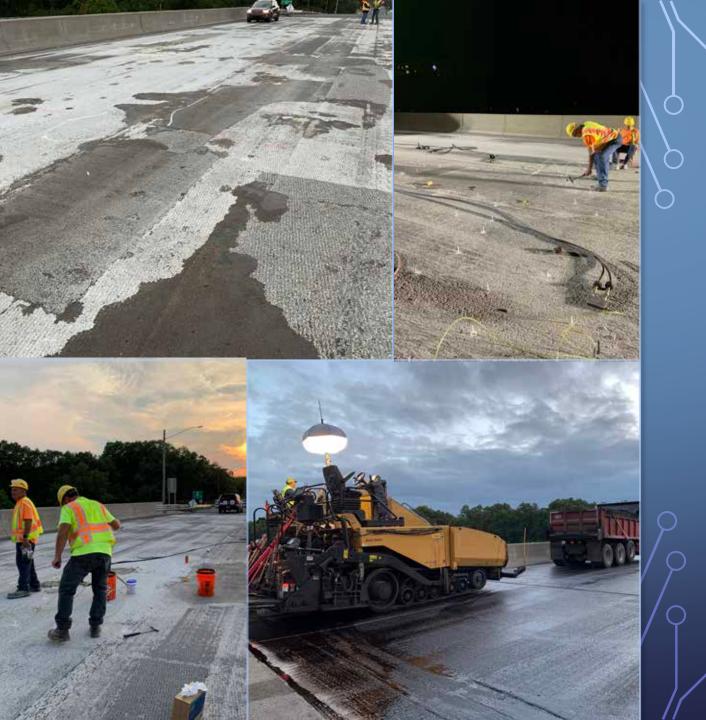






Sherman Road over US-31

- Mill Existing HMAOverlay
- Deck Patch
- Deck Injection
- HMA Overlay



Sherman Road over US-31

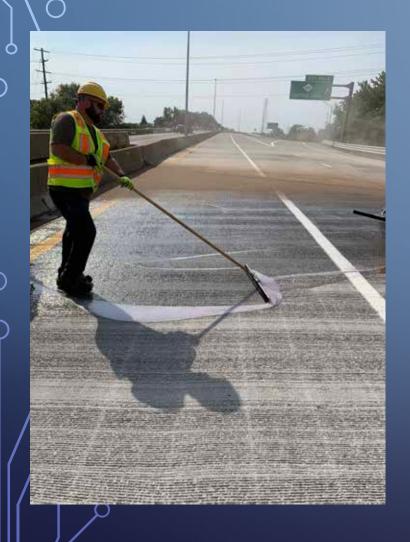
US-31 over 3rd Street





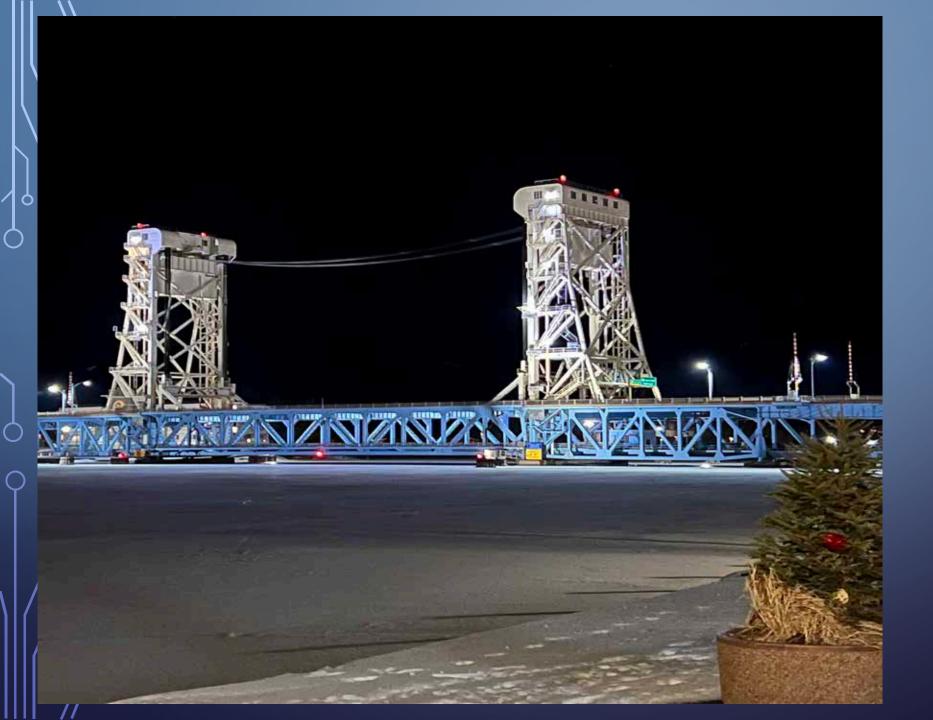


US-31 over M-104 & GTW RR









Thank You