

**GUIDELINES FOR ADMINISTERING
WARRANTIES ON ROAD AND BRIDGE
CONSTRUCTION CONTRACTS**

20SP-500A-01

MICHIGAN
DEPARTMENT OF TRANSPORTATION

SPECIAL PROVISION
FOR
MATERIALS AND WORKMANSHIP PAVEMENT WARRANTY



CFS:DJW

a. Description. The warranty bond, the terms included in the contract, applied to pavement project Warranty warrants the Department of Transportation

b. Definitions.

Acceptance Date of Construction. The date confirmed in writing compliance with the contract acceptance and construction one acceptance date

CONSTRUCTION

20SP-500B-02

MICHIGAN
DEPARTMENT OF TRANSPORTATION

SPECIAL PROVISION
FOR
PAVEMENT PERFORMANCE WARRANTY

CFS:DJW

1 of 7

APPR:KPK:DBP:12-03-21
FHWA:APPR:12-09-21

a. Description. The pavement performance warranty consists of satisfying the warranty requirements of the work contained in the Special Provision for Warranty Work Requirements. This special provision establishes the common terms and definitions applied to the pavement requiring warranted work. The pavement performance warranty assures and protects the Department from specific defects found in the pavement.

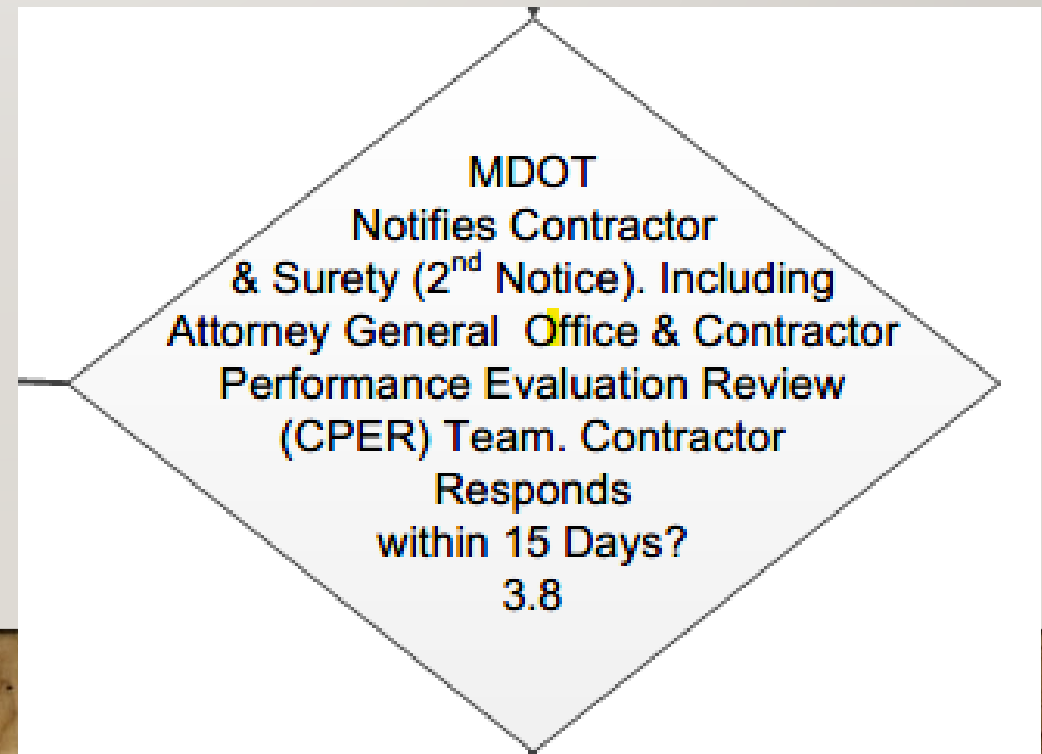
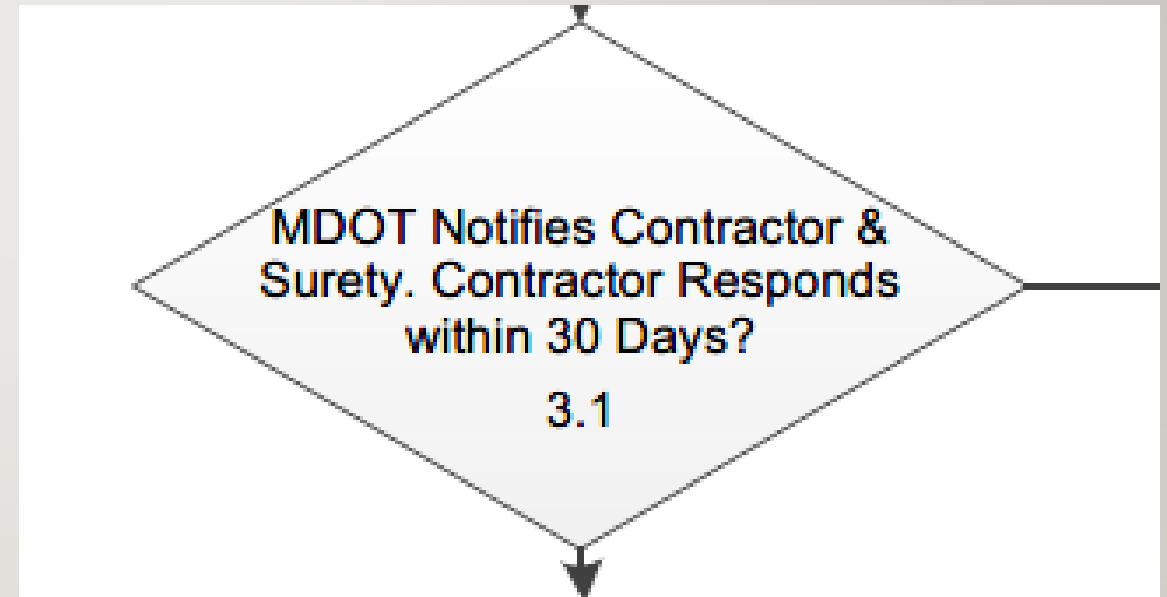
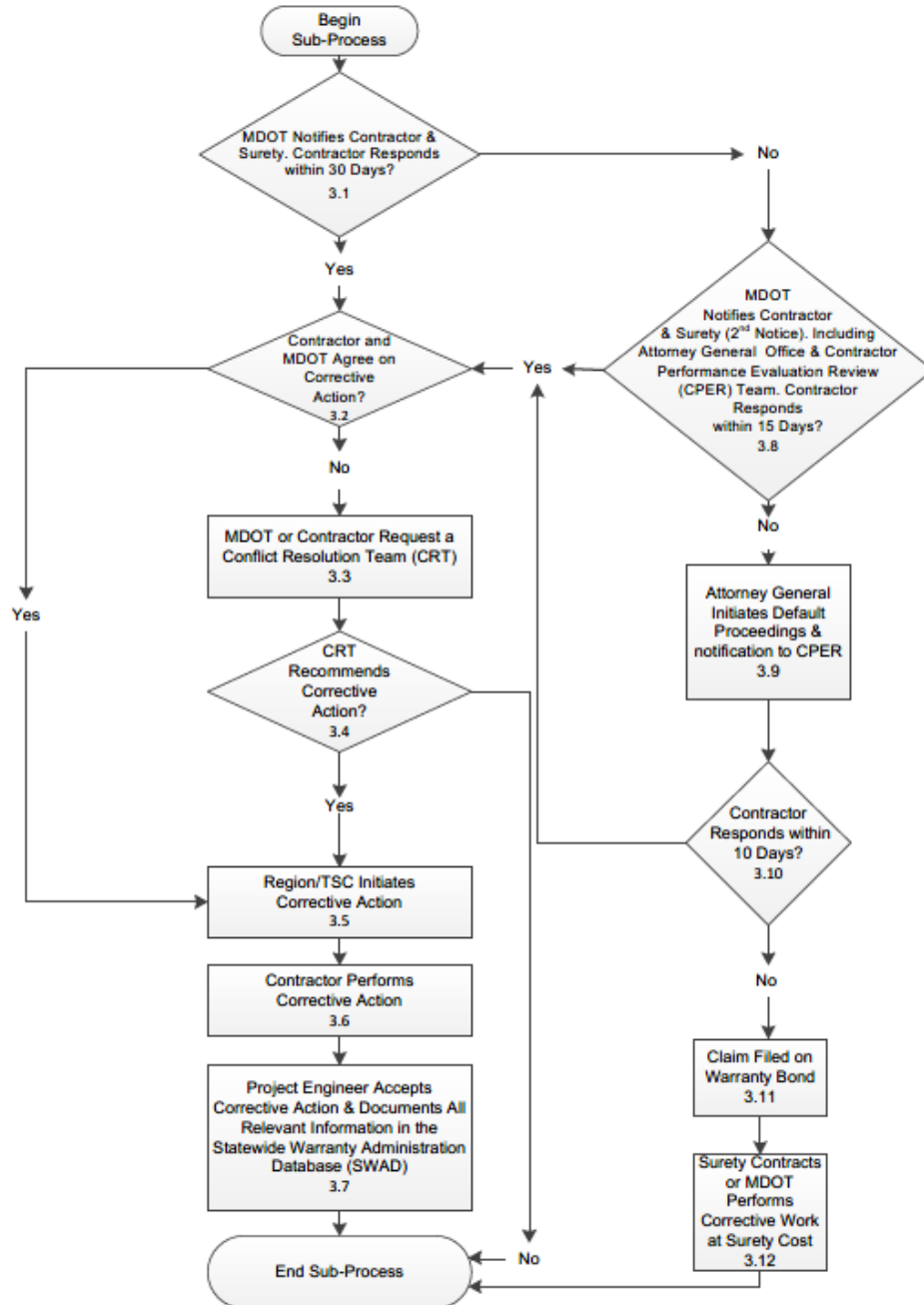
b. Definitions.

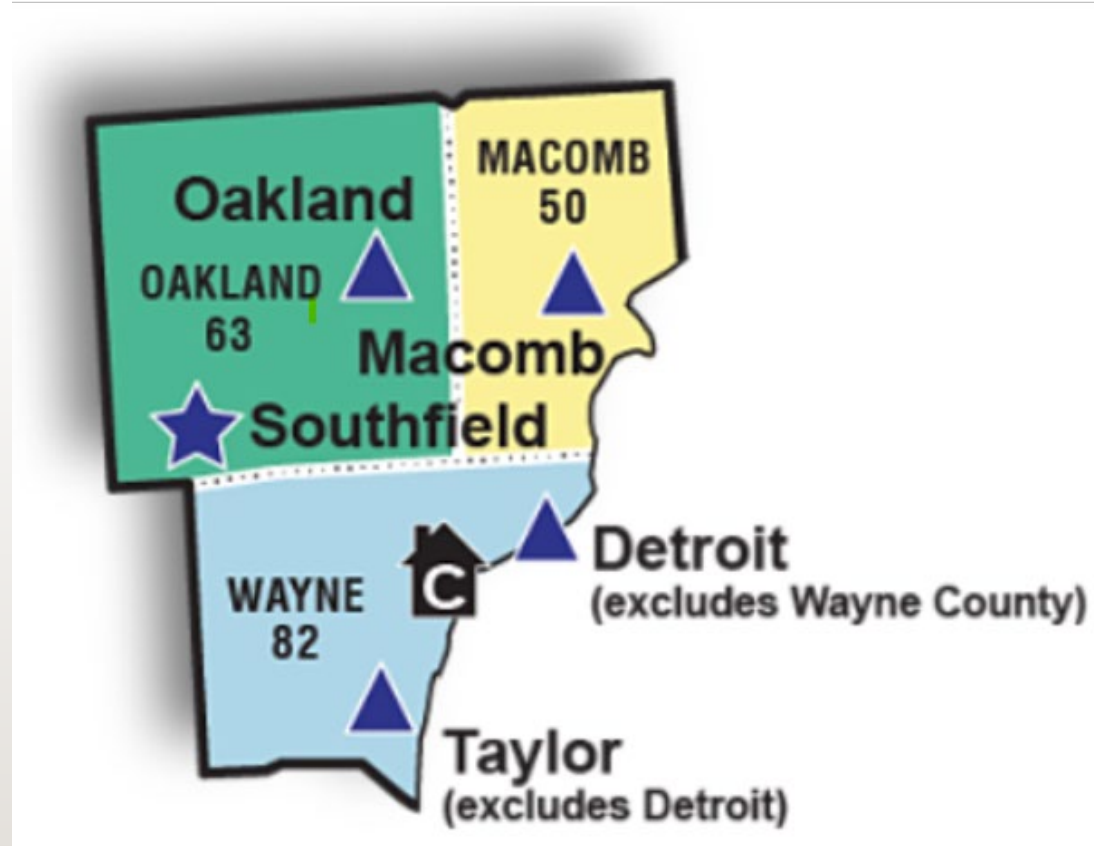
Warranty Process

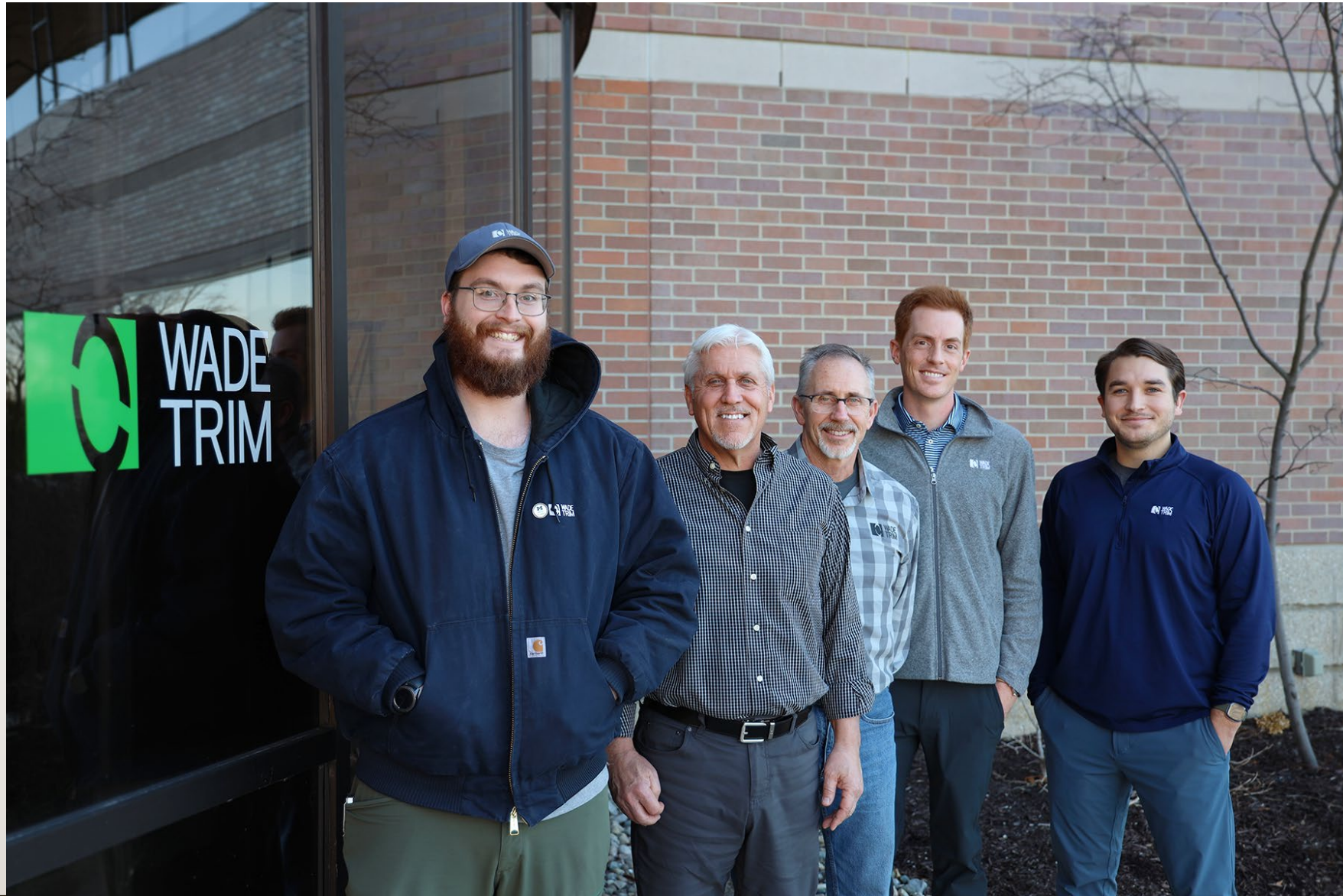
		Next action	Required Documentation/ Forms	Required SWAD Action	Required ProjectWise Action	Required Notifications	Additional comments
1.1	Contract Services Notifies Engineer of Awarded Project with Warranty	1.2	Email received notifying contract documents are in ProjectWise.	Enter Contract information and check for multiple warranties	Copy Warranty SP and Warranty Bond info to folder 107		Include comments that reference any additional warranties on the project
1.2	Contractor Completes Construction of Warranted Items.	1.3					
1.3	Initial Acceptance Form Completed and Signed by Engineer and Contractor. Initial Acceptance Date Entered into Statewide Warranty Administration Database (SWAD).	1.4	Initial Acceptance			Signed copy sent to Contractor, Surety and Contract Services	<p>IA needs to be entered immediately to ensure 120 day inspections are not missed.</p> <p>Enter comments including any areas that were excluded from the warranty</p>
1.4	Warranty Begins	1.5					Ensure all warranties are for the contract are entered
1.5	Monitor/Administrative Warranty Sub-Process	2.1					
1.6	Engineer Provides Notification to Contractor, Surety and Contract Services. Final Inspection Date & All Relevant Warranty Information Entered in SWAD	End Process	Final inspection Forms and Notification letter	Final inspection Date Entered	Final Inspection forms and notification letter in ProjectWise folder 107	Contractor, Surety, Contract Services notified of acceptance	

IA needs to be entered immediately to ensure 120 day inspections are not missed.

**CORRECTIVE ACTION REQUIRED NOTIFICATION/RESOLUTION
SUB-PROCESS**









QuADS-SWAD Inventory and Schedule (2024-2026 Contract)

25251 Northline Road, Taylor, MI 48180 734.947.9700 FAX: 734.947.9726

PROJECT: MDOT QuADS/SWAD Inventory (2024-2026 Contract)
LOCATION: MDOT Metro Region

Revised By: MTL Date: 02-01-2024
Monthly Update: MTL Date: 02-01-2024
Revised Cost By: MTL Date: 01-03-2024

Budget Reporting Dates: 01-03-24 through XX-XX-24

Warr #	Contract ID	Region	TSC	Warr Type Desc	Warr Type	Warr Cat	Warranty Contractor	Constr Yr	Road Route #	Warr Exp Date	Next Insp Due	Cost of Inspection	Date Inspected <small>(Anticipated dates in blue)</small>	Date Submitted <small>(Anticipated dates in red)</small>	Warranty Work Required	Comments
4851	50022-111361	Metro	Macomb	M&WPW for New/Reconstructed HMA Pavem	PAV	M&W	Cadillac Asphalt, L.L.C.	2018	M-59 (M-53 to Romeo)	06/01/2024	12/01/2023	\$ -	12/6/23, 1/3/24	01/12/2024	yes	Final. C.A. required for LCOI (some of which have been prev. sealed).
4939-3	82194-113717	Metro	Detroit	M&WPW for Jointed Plain Concrete Pavement	PAV	M&W	Ajax Paving Industries,	2018	NB I-75 (113+99 to 143+75)	07/01/2024	01/01/2024	\$ -	01/08/2024	01/25/2024	yes	Final. I.A. of 7/1/2019. C.A. required for corner cracking.
4939-4	82194-113717	Metro	Detroit	M&WPW for Jointed Plain Concrete Pavement	PAV	M&W	Ajax Paving Industries,	2018	SB I-75 (168+96 to 214+90)	07/01/2024	01/01/2024	\$ -	01/08/2024	01/25/2024	yes	Final. I.A. of 7/1/2019. C.A. required for corner cracking & 3 shattered slabs. A shattered slab
6625-2	82293-111073-2	Metro	Taylor	Bridge Coating	BRG	Perf	C. A. Hull Co., Inc.	2022	I-275 (B07, B08)	05/09/2024	01/09/2024	(SME total below)	01/11/2024	01/22/2024	yes	Final, no Interim required. C.A. required. Multiple I.A. dates.
6589	82252-126864	Metro	Detroit	Warranty on Concrete Surface Coating	BRG	Perf	Civil Coatings and Cons	2021	I-75 (10 bridges)	06/09/2024	02/09/2024	\$ -	02/13/24, 02/15/24			Final, no Interim required.
5113-1	50061-117578	Metro	Macomb	M&WPW for New/Reconstructed Jointed Plain	PAV	M&W	Interstate Highway Cor	2018	EB I-696 and Ramps	08/25/2024	02/25/2024	\$ -	02/27, 02/28, 02/29			Final. Review in depth for JSF and for scaling on the Gratiot Ramp.
6627-1	82293-111073-2	Metro	Taylor	Warranty on Concrete Surface Coating	BRG	Perf	Progress Company, Inc	2021	I-275 (11 structures)	07/12/2024	03/12/2024	(SME total below)	SME to perform			Final, no Interim required. Multiple I.A. dates. See 1029A form for structure numbers/descrip
6047-1	82024-113125	Metro	Detroit	M&WPW for Multiple Course HMA Overlays o	PAV	M&W	Cadillac Asphalt, L.L.C.	2020	I-94 at Brush	09/14/2024	03/14/2024	\$ -				Final. Interim performed by WT in 2022.
5125	50061-117578	Metro	Macomb	M&WPW for Jointed Plain Concrete Pavement	PAV	M&W	Interstate Highway Cor	2019	I-696 WB SD (Ryan to Milto	09/19/2024	03/19/2024	\$ -				Final.
6627-2	82293-111073-2	Metro	Taylor	Warranty on Concrete Surface Coating	BRG	Perf	Progress Company, Inc	2021	I-275 (5 structures)	08/01/2024	04/01/2024	(SME total below)	SME to perform			Final, no Interim required. Multiple I.A. dates. Structures partially completed in 2022. See 10
6254	82102-204902	Metro	Taylor	PW, High Friction Thin Epoxy Polymer Bridge C	BRG	Perf	Progress Company, Inc	2019	M-14 WB over Sheldo	10/06/2024	04/06/2024	\$ -				Final. Friction Thin Epoxy Polymer Deck Overlay.
6208	82023-79788	Metro	Detroit	M&WPW for Multiple Course HMA Overlays o	PAV	M&W	Ajax Paving Industries,	2019	I-94 (24th to RR's)	10/27/2024	04/27/2024	\$ -				Final.
6045-1	82024-113125	Metro	Detroit	M&WPW for New/Reconstructed Jointed Plain	PAV	M&W	Z Contractors, Inc.	2020	I-94 at Brush	11/01/2024	05/01/2024	\$ -				Final. Interim performed by WT in 2022.
6203	63174-124864	Metro	Oakland	M&WPW for New/Reconstructed Jointed Plain	PAV	M&W	C. A. Hull Co., Inc.	2019	I-75 Bridge Approache	11/02/2024	05/02/2024	\$ -				Final. I-75 bridge approaches (S01-1 & S01-2).
6205	63174-124864	Metro	Oakland	M&WPW for Multiple Course HMA Overlays o	PAV	M&W	Ajax Paving Industries,	2019	I-75 ramps at Chrysler	11/07/2024	05/07/2024	\$ -				Final.
6111	63022-119805	Metro	Oakland	M&WPW for Multiple Course HMA Overlays o	PAV	M&W	Cadillac Asphalt, L.L.C.	2019	M-5 under I-96 BL (Gr	11/15/2024	05/15/2024	\$ -				Final.
6625-3	82293-111073-2	Metro	Taylor	Bridge Coating	BRG	Perf	C. A. Hull Co., Inc.	2022	I-275 (S06)	09/20/2024	05/20/2024	(SME total below)	SME to perform			Final, no Interim required. Multiple I.A. dates. Note: only portions of S06 (ref. 1029A form)
6061	82025-113127	Metro	Detroit	M&WPW for New/Reconstructed Jointed Plain	PAV	M&W	GM & Sons, Inc.	2019	French, Concord over	11/27/2024	05/27/2024	\$ -				Final.
6224	82053-128774	Metro	Taylor	M&WPW for New/Reconstructed Jointed Plain	PAV	M&W	Z Contractors, Inc.	2019	US-24 over Rouge Riv	11/29/2024	05/29/2024	\$ -				Final. Two segments 6224-1 and 6224-2 have the same Initial Acceptance Date.
6762	82252-209666	Metro	Detroit	Bridge Coating	BRG	Perf	C. A. Hull Co., Inc.	2022	I-75/M-8 (8 structures)	10/11/2024	06/11/2024	(SME total below)	SME to perform			Final, no Interim required.
6765	63043-212366	Metro	Oakland	Warranty on Concrete Surface Coating	BRG	Perf	Progress Company, Inc	2022	Squirrel Rd. over M-59	10/21/2024	06/21/2024	\$ -				Final, no Interim required.
4939-1	82194-113717	Metro	Detroit	M&WPW for Jointed Plain Concrete Pavement	PAV	M&W	Ajax Paving Industries,	2018	I-75 Inlay, Clark to Springw	12/23/2024	06/23/2024	\$ -	N/A	N/A	N/A	Final. MDOT confirmed this segment does not represent any I.A. date.
6025-1	63174-201437	Metro	Oakland	M&WPW for New/Reconstructed Jointed Plain	PAV	M&W	Walsh Construction Co	2020	NB I-75 (Seg. 2)	12/27/2024	06/27/2024	\$ -				Final. Interim performed by WT in 2023. Send reports to Macomb TSC, CC Oakland.
6750	82081-205017	Metro	Taylor	Warranty on Concrete Surface Coating	BRG	Perf	Pneumatic Restoration	2022	M-153 over Hines Dr.	10/28/2024	06/28/2024	\$ -				Final, no Interim required. Email Hickman to confirm 1 or 2 I.A.'s.
6763	82252-209666	Metro	Detroit	Warranty on Concrete Surface Coating	BRG	Perf	Pneumatic Restoration	2022	I-75/M-8 (8 structures)	10/31/2024	06/30/2024	(SME total below)	SME to perform			Final, no Interim required.
6744	82194-200646-2	Metro	Detroit	Warranty on Concrete Surface Coating	BRG	Perf	Progress Company, Inc	2022	I-75 over Fort St.	11/01/2024	07/01/2024	\$ -				Final, no Interim required. Request 1029 Form from Taylor TSC.
6609	63052-208615	Metro	Oakland	M&WPW for Cold Milling & One Course HMA	CPM	M&W	Ajax Paving Industries,	2021	US-24	11/02/2024	07/02/2024	\$ -				Final, no Interim required.
6623	82293-111073-2	Metro	Taylor	M&WPW for Cold Milling & One Course HMA	CPM	M&W	Ajax Paving Industries,	2021	I-275	11/17/2024	07/17/2024	\$ -				Final, no Interim required.
												Budget Reporting Dates: 01-03-24 through XX-XX-24		2024 Inspection Schedule		

**Red indicates inspection prep needed

*Blue indicates SME to perform

Observations

Minor amounts observed but do

Transverse crack not exceed the

Warrant

Joint sealant failure threshold limits be necessary to

JOINT SEALANT FAILURE				(THRESHOLD LIMIT = ≤ 2 SLABS, 10% OF SLAB PERIMETER)	
AMOUNT OF SEGMENTS EXCEEDING	LANE DESCRIPTION	SEGMENT NUMBER	ESTIMATED TOTAL NUMBER OF SLABS	COMMENTS	PHOTO #
9	EB I-96 - lane #1	22, 50, 52, 53, 54, 56, 57, 58, 63	3 or more	At least 5.3' of joint sealant failure per slab > 10% (> 5.2'), ETL	-
9	EB I-96 - lane #2	11, 29, 52, 53, 54, 56, 57, 58, 63	3 or more	At least 5.3' of joint sealant failure per slab > 10% (> 5.2'), ETL	-
8	EB I-96 - lane #3	4, 17, 48, 49, 51,	3 or more	At least 5.3' of joint sealant failure per slab > 10% (> 5.2'), ETL	14

EB/V
I-96
I-96
Ram

SHATI
SEGM
NO
2
I-96
Ram

Segm
Proj

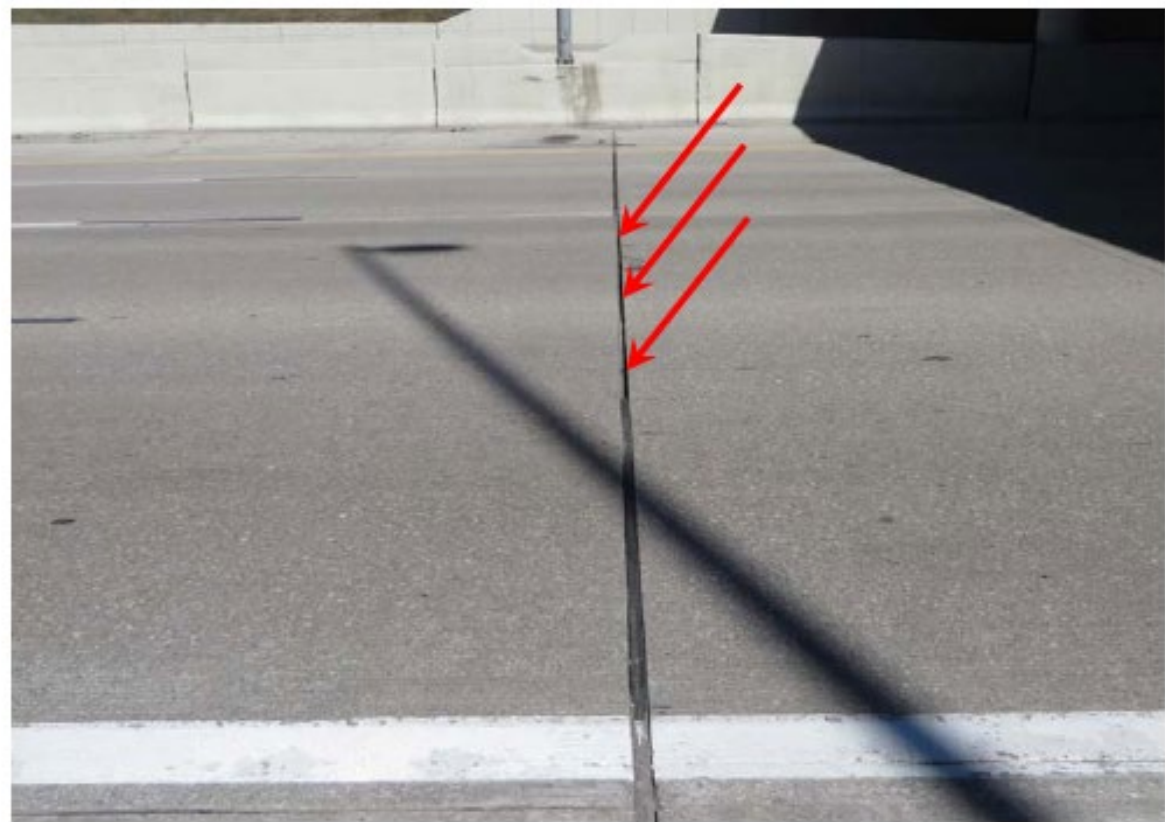


Photo #	Date	Segment	Station	Description	Direction
14	3/26/2019	52	1883+79	EB I-96 - lane #3, 4 - 12' of joint sealant failure (lane #3), 4' of joint sealant failure (lane #4)	EB facing north

5/12/2020 FIELD INVESTIGATION



4" relief cut = 1/3 total depth.



Packed slurry below backer rod.

Notes from Andy Bennett:

- Sealant showed adhesion failure from reservoir faces with presence of dirt on both sides of sealant.
- Compacted silty material was present below the backer rod.
- Crack development around bigger coarse aggregate indicates the crack developed early as intended.
- Closure examination showed the packed silty material was slurry from the sawing operation that did not get removed from the joint prior to sealing. Approximately 2" of the saw slurry material was present.
- Pitting of the concrete was also noticeable below the backer rod at all core locations. Pitting is an indication of deicer scaling in the mortar portion of the concrete core.

Contract: Metro Region Warranty Inspections
Contract 2021-0243

Project:



Spall
locat



Photo #
12

Photo #	Date	Segment	Station	Description	Direction
13	6/30/2023	5	169+72	NB I-75 - lane #2, 3 - 12' of longitudinal joint spalling distresses	NB facing northwest



Report a problem

© 2023 Google

Inquiry Date: 9/2023

26° W elev: 605 ft eye alt: 581 ft

Google Earth

JN 47040 M-53 34 MILE RD. TO BOARDMAN RD.



201
Spec
Co

ITEM NUMBER
1302 013

STATE OF

4.59 mi of concrete road reconstruction and wider pavement marking on M-53 from 34 Mile Road no includes a 5 year materials and workmanship pav

BIDS WILL BE ELECTRONICALLY DOWNLOA

AT: VANWAGONER BLDG, 1ST FLR ONE W

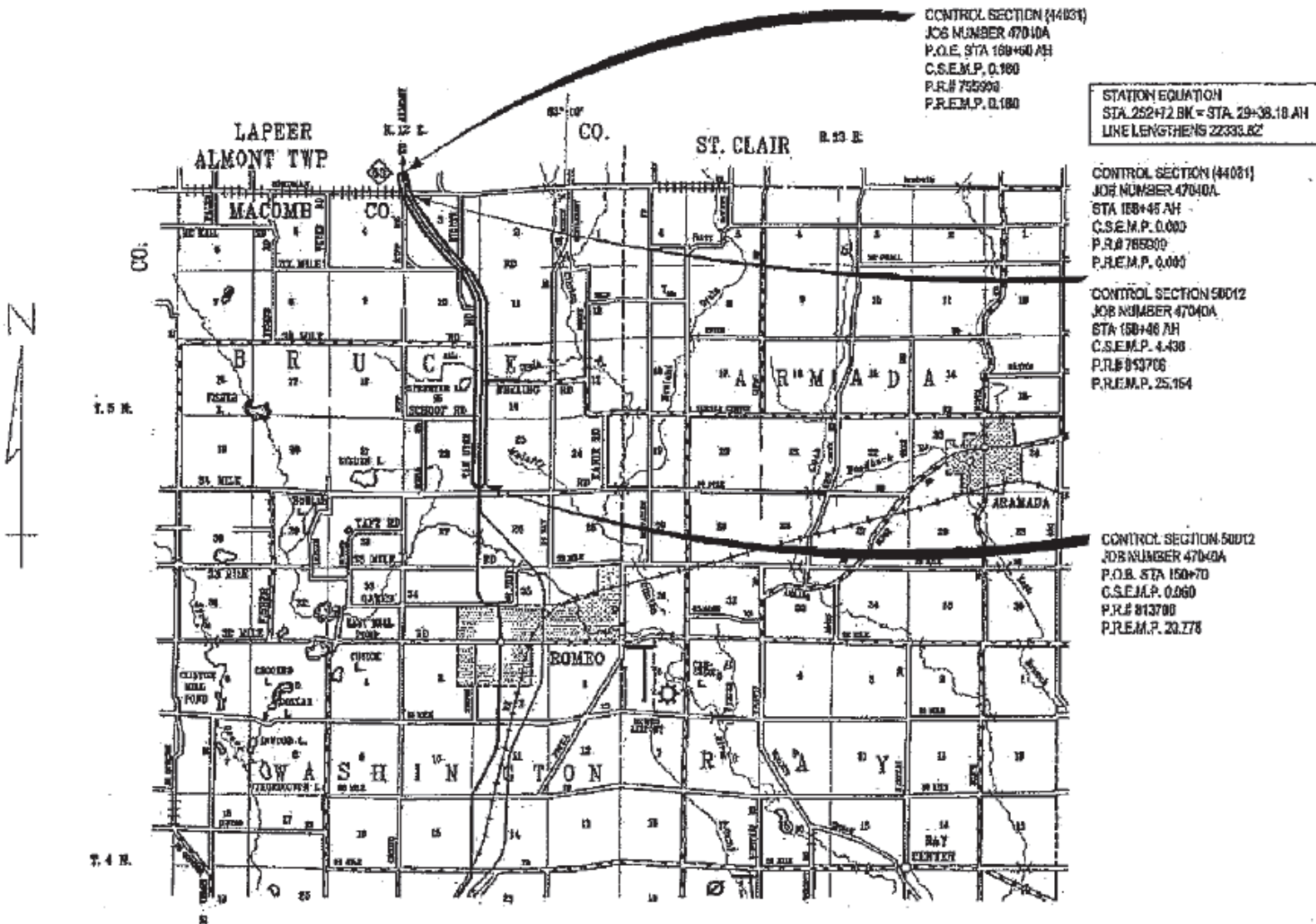
CONTRACT ID

CONTROL SECTION

50012-47040

NH

50012



WARRANTY INSPECTION REPORT

Observations

Mainline

No map cracking or shattered slab distresses were observed.

Minor amounts of transverse cracking, scaling, spalling, and joint sealant failure distresses were observed but do not exceed the allowable threshold limits.

Significant amounts of corner cracking and longitudinal cracking distresses were observed on both NB and SB M-53 (lane #1). Corner cracking distresses exceed the allowable threshold limits on both NB M-53 (lane #1) and SB M-53 (lane #1). Longitudinal cracking distresses exceed the allowable threshold limits on NB M-53 (lane #1).

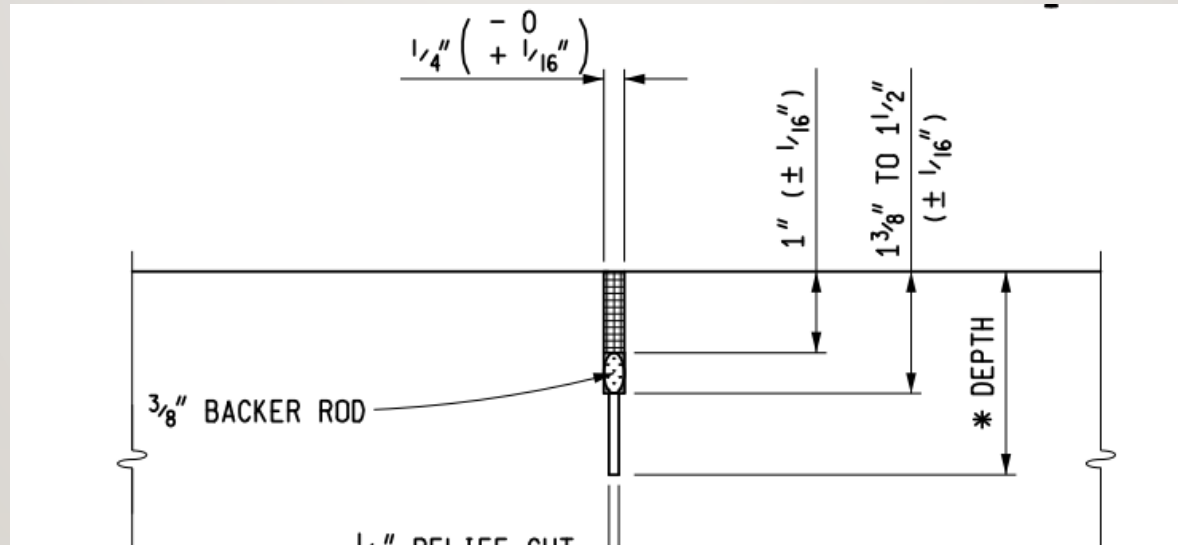
PROPOSAL RECOMMENDED CORRECTIVE ACTION

Table 2: Recommended Corrective Action

Condition Parameter (g)	Recommended Action (a)
Longitudinal Cracking (b)	Retrofit load transfer
Transverse Cracking (b)	Retrofit load transfer
Corner Cracking	Full-depth, tied, concrete patch
Map Cracking	Remove and replace (c)
Spalling	Repair with epoxy or cement mortar (d)
Scaling	Diamond grind surface (e)
Joint Sealant Failure	Remove and replace seal material (f)

- a. If multiple condition parameters are present, the recommended action may be revised. Removal and replacement is required if multiple crack types are present.
- b. The appropriate corrective treatment is dependent on the crack's location and depth. Full-depth T cracks require retrofit load transfer (> 90% load transfer efficiency) as a minimum. Full-depth/full-length L cracks require slab removal and replacement, if outside influence of lane ties.
- c. Dependent on cause. If cracking is entirely from "drying shrinkage", no corrective action is required.
- d. Repair dependent on area and depth of spall. Use most current procedures and material mixtures recommended by Material's Technology Section, in the Construction and Technology Division.
- e. Diamond grinding applies to entire slab surface area where cracking exists.
- f. Replace with existing material type. Neoprene seals are removed and replaced full-width.
- g. Shattered slabs must be removed and replaced as directed by the Engineer.

STANDARD PLAN R-39-K



*** DEPTH OF RELIEF CUT FOR JOINT (Cp) AND (C3p) SHALL BE $\frac{1}{4}$ THE SLAB THICKNESS FOR PAVEMENTS LESS THAN OR EQUAL TO 7" IN THICKNESS AND $\frac{1}{3}$ THE SLAB THICKNESS FOR PAVEMENTS GREATER THAN 7" THICK.**

THICKNESS FOR PAVEMENTS LESS THAN OR EQUAL TO 7" IN THICKNESS AND $\frac{1}{3}$ THE SLAB THICKNESS FOR PAVEMENTS GREATER THAN 7" THICK.





PROJECT TIMELINE

- Letting 2/1/13
- Original OTT 10/13/13
- Initial Acceptance 11/13/13
- Final Warranty Inspection Report 6/19/18
- Warranty Expiration 11/13/18
- CRT begin date?
- CRT Findings Report 11/15/21
- Corrective Action Completed 8/26/23

QUESTIONS?

