



# Local Agency Pavement Warranties

Dave Pettersch, Gladwin CRC

Steve Puuri, CRA



# Local Agency Pavement Warranties

Mandated in Public Act 175 of 2015 (Transportation package)

- Local Agency Warranty Program submitted to MDOT September 2017
- One Local Agency Warranty Program for all CRA & MML Members
- Local Warranties to be implemented within 1 year of approval by MDOT



# Local Agency Pavement Warranties Requirements



- Recommended for paving projects > \$2 million
  - Bid Documents developed for all Local Agency projects
- Agencies to determine if a pavement warranty is included
- Annually agencies to report on all paving projects > \$ 2 million







MAKING ROAD



# Local Agency Pavement Warranties



## Local Agency Pavement Warranty Task Force

- Developed Special Provisions
- Developed Agency Pavement Warranty Guidelines
- Developing Training Programs
- Developing Warranty Monitoring Procedures
- Developing Warranty Reporting Procedures

## Task Force Membership

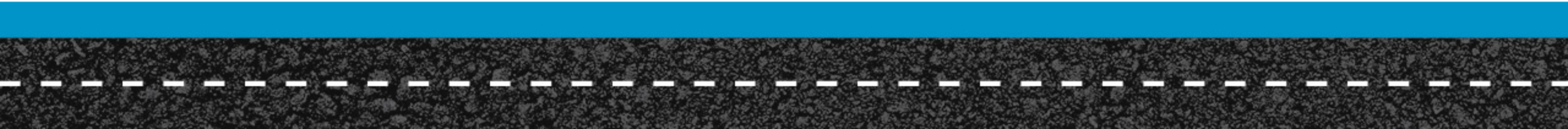
- CRA, MML, MDOT, FHWA

# Local Agency Pavement Warranties



## Local Agency Warranty Program Bid Documents

- Warranty Contract
- Warranty Bond
- Boilerplate Special Provision
- Asphalt Pavement Warranty Special Provision
- Concrete Pavement Warranty Special Provision
- Warranty Location Special Provision

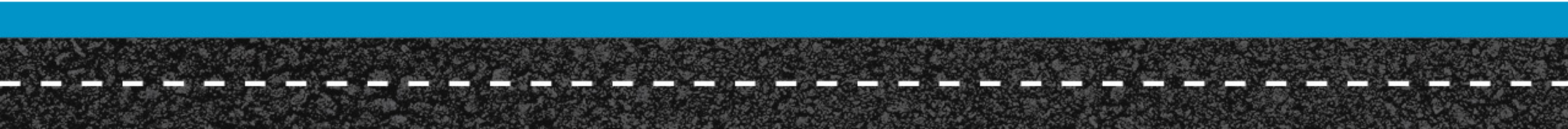


# Local Agency Pavement Warranties



## Local Agency Warranty Contract & Bond

- Warranty Contract - between Local Agency & Paving Contractor
- Warranty Bond - between Local Agency & Paving Contractor's Bonding Company





# Local Agency Pavement Warranties

## Asphalt Warranty Distresses



Longitudinal Cracking



Transverse Cracking



# Local Agency Pavement Warranties

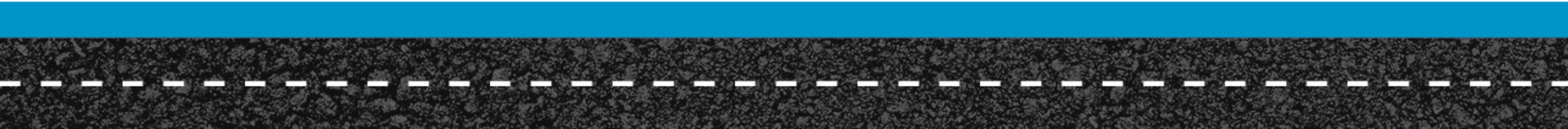
## Asphalt Warranty Distresses



Alligator Cracking



Block Cracking





# Local Agency Pavement Warranties

## Asphalt Warranty Distresses



Rutting



Flushing





# Local Agency Pavement Warranties

## Asphalt Warranty Distresses



Debonding



Raveling



# Local Agency Pavement Warranties

## Concrete Warranty Distresses



Longitudinal Cracking



Transverse Cracking





# Local Agency Pavement Warranties

## Concrete Warranty Distresses



Corner Cracking



Map Cracking





# Local Agency Pavement Warranties

## Concrete Warranty Distresses

### Other Concrete Distresses

- Spalling
- Scaling
- Joint Sealant Failure
- Shattered Slab



# Local Agency Pavement Warranties



## Local Agency Pavement Warranty Training

- Utilizing the Local Technical Assistance Program
- 2018 Training

# Local Agency Pavement Warranties



## Local Agency Pavement Warranty Reporting and Monitoring

- Reporting requirement shall utilize the Transportation Asset Management Counsel IRT
- Local Agency must report on all projects > \$2 million with paving
- Projects that include a Pavement Warranty shall be monitored
- LTAP to develop a Warranty Monitoring tool





# Local Agency Warranty Contract

- A Model Warranty Contract has been developed
- Warranty Contract includes all Project Plans & Specifications related to pavement
- Contract to be executed by Local Agency and Paving Contractor
- CRA Legal Counsel assistance with Model Contract



# Local Agency Warranty Bond

- A Model Warranty Bond Special Provision has been developed
- Warranty Bond to be provided by Paving Contractor's Bonding Company
- CRA Legal Counsel assistance with Model Bond Form



**THANK YOU!**



# Asphalt Distress Limits



	LONG TERM WARRANTY (NEW CONSTRUCTION / RECONSTRUCTION)		MEDIUM TERM WARRANTY REHABILITATION		SHORT TERM WARRANTY SINGLE COURSE & MULTIPLE COURSE OVERLAY	
Condition Parameter	Threshold Limits Per Segment (Segment Length = 528 feet = 1/10 mile) (b)	Max. Defective Segments Per Driving Lane- Mile (c)	Threshold Limits Per Segment (Segment Length = 528 feet = 1/10 mile) (b)	Max. Defective Segments Per Driving Lane- Mile (c)	Threshold Limits Per Segment (Segment Length = 528 feet = 1/10 mile) (b)	Max. Defective Segments Per Driving Lane-Mile (c)
Warranty Term	5 years		3 years		1 year	
Transverse Cracking	3(b)	1	3(b)	2 (d)	3(a,b,d)	3 (a,d)



# Asphalt Suggested Repairs

Condition Parameter	Recommended Action
Transverse cracking	Seal, or cut/seal (per Engineer direction)
Longitudinal cracking	Seal, or cut/seal (per Engineer direction)