

Maryland Transportation Authority

CAPITAL COMMITTEE MEETING

THURSDAY, MARCH 2, 2023

2310 BROENING HIGHWAY BALTIMORE, MARYLAND 21224

CAPITAL COMMITTEE MONTHLY MEETING March 2, 2023 – 9:00 AM

This meeting will be livestreamed on the MDTA Capital Committee Page

NOTE: This is an Open Meeting being conducted via livestreaming. The public is welcomed to watch the meeting at the link listed above. *If you wish to comment on an agenda item please email your name, affiliation, and the agenda item to esogard@mdta.state.md.us no later than 3:00 p.m. on Monday, <i>February 27, 2023. You <u>MUST pre-register in order to comment</u>. Once you have pre-registered you will receive an email with all pertinent information.*

AGENDA

OPEN SESSION - 9:00 a.m.

Call Meeting to Order

1.	<u>Approval</u> - Open Session Meeting Minutes of February 2, 2023	Chairman	5 mins
2.	<u>Update</u> – I-895 over Herring Run Erosion & Scour Mitigation Project	Peter Mattejat	15 mins

Vote to Adjourn Meeting

MARYLAND TRANSPORTATION AUTHORITY CAPITAL COMMITTEE MEETING THURSDAY, FEBRUARY 2, 2023 OPEN MEETING VIA LIVESTREAMING

OPEN SESSION

MEMBERS ATTENDING:	Mario J. Gangemi – Chairman
	William C. Ensor, III
	William H. Cox, Jr.
	W. Lee Gaines

STAFF ATTENDING:

Will Pines Brian Wolfe Donna DiCerbo Jeanne Marriott Jennifer Stump Kimberly Millender Christopher Imms Eric Willison Mary O'Keefe Selena McKissick Natalie Henson Ganine Steffe Liz Zito-Lynch

Member Gangemi called the meeting of the Maryland Transportation Authority (MDTA) Capital Committee to order at 9:00 a.m. The meeting was held via video conference and livestreamed on the MDTA Board Meeting web page.

APPROVAL – OPEN SESSION MEETING MINUTES OF JANUARY 5, 2023

Upon motion by Member Cox and seconded by Member Gaines, the Open Session meeting minutes of the Capital Committee's meeting held on January 5, 2023, were unanimously approved.

UPDATE – KB3005-0000 MAJOR PROJECTS PRESENTATION

Mr. Wolfe provided the MDTA Capital Committee with an overview of the KB3005 Major Projects.

There being no further business, the meeting of the MDTA Capital Committee was adjourned by consensus at 9:21 a.m. following a motion by Member Gaines and seconded by Member Ensor.

OPEN SESSION FEBUARY 2, 2023 2 of 2

The next meeting of the MDTA Capital Committee is scheduled for Thursday, March 2, 2023, at 9:00 a.m. at Point Breeze Headquarters, 2310 Broening Highway, Baltimore, Maryland.

APPROVED AND CONCURRED IN:

Mario J. Gangemi, Chairman

I-895 over Herring Run Erosion & Scour Mitigation Project



Maryland Transportation Authority Office of Engineering & Construction

Peter Mattejat, P.E. Environmental Manager Ruel Sabellano, P.E. Structures Manager





I-895 over Herring Run

- Site Description
- The Threat
- How Did This Happen?
- Remediation
- Summary







View Downstream



Pier 1



Pier 2

View Upstream

I-895 over Herring Run THE THREAT



Upstream Pier 2



I-895 over Herring Run THE THREAT

2019



South Sheetpile Wall at Pier 1 Looking Downstream

I-895 over Herring Run



Depth from water surface to stream bed

Indicates location of thalweg and direction of flow



Key Factors

- **o** Intense Watershed Urbanization
- Physiographic Transition (Piedmont to Coastal Plain)
- Extreme Precipitation Flash Discharges
- River offset from Bridge Opening (angle of attack)

















March 5, 2017





March 11, 2018





November 29, 2018



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Remedial areas:

- Upstream sheetpile wall / embankment at Pier 2
- Upstream channel sediment bar
- Channel & sheetpile wall under bridge for Piers 1 & 2
- Overbanks under bridge

Remedial approach:

- Emergency Task Orders
- On-Call Contractor & specialty subs



Existing Sheetpile Wall & Embankment Reconstruction





Sheetpile Wall & Embankment Reconstruction



Sheetpile Wall & Embankment Reconstruction



Stream Sediment Bar Grading



Channel / Sheetpile Wall & Overbank Stabilization



Before





Channel / Sheetpile Wall & Overbank Stabilization



Flow Before Remediation

Flow After Remediation



Before Remediation



W

After Remediation

I-895 over Herring Run SUMMARY

Summary

- Bridge had multiple expansions
- Flashy ultra-urban watershed
- Stream angle of attack to bridge shifting
- Emergency Remediation included <u>bridge</u> and <u>stream</u>
- Future biennial bridge inspections to include the stream
- Future bridge remediation to include the stream
- Collaboration between Structures & Environmental Divisions
- Addressed environmental needs by addressing the stream and watershed dynamics