

CHESAPEAKE BAY BRIDGE AND TUNNEL DISTRICT

RMF PROJECT NO.: 2053.2025,
MILL AND REPAVE TRESTLES – REPAIR END DAMS
BID NO.: M-19-001

TO: All Mandatory Pre-Bid Meeting Attendees
FROM: Chesapeake Bay Bridge and Tunnel District
SUBJECT: Request for Bids, Bid No.: M-19-001 Addendum 1
DATE: June 10, 2019

Effective this date is Addendum 1 to the Request for Bids (“RFB”) for the above noted project. This addendum will serve to advise all Bidders of the following changes to the subject RFB.

CBBT POINTS OF CLARIFICATION:

1. At the completion of C Trestle South Bound, the Contractor shall place the entire array depicted on drawing G-501, section entitled Arrow Board and Impact Attenuator, with the exception that a temporary arrow board capable of withstanding 120mph wind loads be placed until the C Trestle North Bound work begins and the traffic pattern on C Trestle South Bound becomes bidirectional. At the completion of the C Trestle North Bound work, with traffic returned to its final state, the permanent arrow board with associated barrels shall be installed per drawing G-501, section entitled Arrow Board and Impact Attenuator.
2. In the General Provision, page GP-23, Section 102.07, and first paragraph, delete the following, “and executed on the District’s form (Form C-24), or on a form that contains the exact same wording as the Department’s form.” Bidders shall provide bid bonds on standard AIA forms.
3. This project contains no Federal dollars and therefore requires none of the federal reporting such as the Davis Bacon wage scale.

QUESTIONS

Question 1. Pavement marking Items 10 and 14 are described as dashed lines. Are they VDOT standard skip lines (10’ line, 30’ spacing)? If this is the case, the bid items are way over estimated. Item 10 should be approx. 12,850 lf, while item 14 should be approx. 2,520 lf. Please clarify.

Answer: Yes, these are VDOT standard skip lines, 10’ line followed by 30’ spacing. The quantities have been correct to reflect just the painted linear footage. Corrected Quantities of affected tables, on pages TS-15 to TS-17, are as follows:

202.1.3.2 Trestle CNB (Type B, Class I Thermoplastic Paint)

DESCRIPTION	DISTANCE (LF)
6" Solid White	24,111
8" Solid White	190
6" Dashed White	6,006
6" Dotted White	280
6" Solid Yellow	24,111

202.1.3.3 NCB-NB (Type B, Class VI Tape)

DESCRIPTION	DISTANCE (LF)
6" Solid White	3,793
6" Dashed White	949
6" Solid Yellow	3,793

202.1.3.4 Trestle DNB (Type B, Class I Thermoplastic Paint)

DESCRIPTION	DISTANCE (LF)
6" Solid White	1,351
6" Dashed White	338
6" Solid Yellow	1,351

202.1.3.5 Trestle CSB

DESCRIPTION	DISTANCE (LF)
Asphalt Areas (Type B, Class I Thermoplastic Paint)	
6" Solid White	23,278
6" Dashed White	5,220

6" Dotted White	145
6" Solid Yellow	23,278
12" White Gore	400
12" Yellow Gore	320
Lane-Reduction Arrow	2
Concrete Areas (Type B, Class VI Tape)	
6" Solid White	1,058
6" Solid Yellow	1,058
12" Yellow Gore	710

202.1.3.6 NCB-SB (Type B, Class VI Tape)

DESCRIPTION	DISTANCE (LF)
6" Solid White	3,100
6" Dashed White	775
6" Solid Yellow	3,100

202.1.3.7 Trestle DSB (Type B, Class VI Tape)

DESCRIPTION	DISTANCE (LF)
6" Solid White	2,103
6" Dashed White	526
6" Solid Yellow	2,103

202.1.3.8 Fishermans Island (Type B, Class I Thermoplastic Paint)

DESCRIPTION	DISTANCE (LF)
6" Solid White	1,370
6" Dashed White	2,088
6" Dotted White	50

6" Solid Yellow	8,350
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202.1.3.9 FIB-SB (Type B, Class VI Tape)

DESCRIPTION	DISTANCE (LF)
6" Dashed White	115
6" Solid Yellow	457

202.1.3.10 Wise Point (Type B, Class I Thermoplastic Paint)

DESCRIPTION	DISTANCE (LF)
6" Solid White	245
6" Dashed White	1,338
6" Dotted White	50
6" Solid Yellow	4,780

The changes reflected in Bid Items 10, 11 and 14 shall be as follows:

- 10. Permanent Pavement Markings Type B, Class 1 Thermoplastic Paint
6" dashed white 14,990 LF
- 11. Permanent Pavement Markings Type B, Class 1 Thermoplastic Paint
6" dotted white 525 LF
- 14. Permanent Pavement Markings Type B, Class VI Tape
6" dashed white 2,365 LF

Please see the revised bid sheet and pages TS-15 through TS-17 that is attached to this Addendum.

Question 2. We anticipate both linear and non-linear eradication of existing pavement markings for traffic shifts. The existing Type B, Class VI pavement markings will have to be eradicated before new markings can be installed. Will there be eradication pay items added?

Answer: **No, pay items will not be added for eradication.**
At the completion of Paving of CSB, the Contractor shall use Temporary Pavement Marking Type F, per Section 246.03, (g), 4, of the 2016 VDOT Road and Bridge Specifications.

When the Contractor begins the work on CNB, they will use Temporary Pavement Marking Type F, per Section 246.03, (g), 4, of the 2016 VDOT Road and Bridge Specifications, to facilitate bi-directional traffic in the south bound lanes as indicated on drawings 16 through 23. This will necessitate eradication of existing markings on Fishermans Island, FIB and a portion of the approach road from Wise Point to just south of the toll plaza. As indicated on the drawings, the solid white line on the east side of these areas is slated to remain in place. When CNB work is completed and normal traffic patterns are reinstated, permanent markings will be required to be replaced in these areas.

Question 3. Should the new Type B, Class VI tape be installed in recessed slots? If yes, what is the dimension of the recessed slot area?

Answer: Yes, 6” Type B Class VI tape shall be installed per 246.03, (f), of the 2016 VDOT Road and Bridge Specifications. The existing 4” tape is currently in an existing trough. If this existing trough is not sufficient to place the 6” Type B Class VI tape, then the Contractor shall provide the adequate width required. This work shall fall under page TS-28, Section 203.4.3, entitled Pavement Markings, letter a., a portion of which reads, “This price shall include the pavement marking material, surface preparation, quality control tests, daily log, guarding devices, primer/adhesive, and glass beads.”

Question 4. Are there any specifications for Item 23 (Yellow Tubular Markers)? Are these flexible delineator posts?

Answer: These shall adhere to section 702 of the 2016 VDOT Road and Bridge Specifications and shall be 32” high Davidson FG 300 UR Thermoplastic Polyurethane Delineators or approved equal. The quantity in the project bid item 23 and on the drawings is stated as 32. This is incorrect. The correct quantity of said delineators shall be 18, which has been corrected on the attached revised bid sheets.

Question 5. Construction pavement markings are called out in the plans to be Type F. In the past, Type F was considered paint. Per the 2016 Road and Bridge Specifications, Type F is now Type A paint. If paint is used for construction pavement markings, it will have to be eradicated when the pattern changes to either the next temporary marking or for permanent marking installation. Our recommendation would be Type D removable tape in this instance. Will this be a pay item?

Answer: For Temporary Markings the contractor shall use Type F Paint, per section 246.03, (g), 4, of the 2016 VDOT Road and Bridge Specifications. On page

TS-29 of the Technical Specifications, Section 203.4.3, entitled Pavement Markings, letter b, it states, “Temporary Pavement Solid and Skip line markings, including Type F, will be considered incidental to the project.”

Question 6. Payment for Maintenance of Traffic is specified on page TS-5 of the Technical Specifications as being paid for per Section 512 of the VDOT Road and Bridge Specifications, yet I do not see the multiple items of this project per Section 512 of the VDOT Road and Bridge Specification listed on the bid sheet. Are there pay items for these items?

Answer: The statement of page TS-5 of the Technical Specifications reading, “Payment for Maintenance of Traffic (MOT) shall be in accordance with VDOT RBS Section 512.”, shall be replaced with, “All MOT items for this project, which are further broken out and specified under section 512 of the 2016 VDOT Road and Bridge Specifications, shown in the drawings, stated in the specifications, and/or which are necessary to successfully complete the Pay Items of this project shall be considered incidental to the project .”

Question 7. The plans show 6” Ty. F (white and yellow) paint to be used for temporary markings. Will TY. F also be used on the concrete surfaces or will it be Ty. D (tape)?

Answer: The Contractor shall use Temporary Pavement Marking Type F, per Section 246.03, (g), 4, of the 2016 VDOT Road and Bridge Specifications. This applies to both Asphalt and Concrete Markings.

Question 8. The plans do not call out a method for eradicating the existing pavement markings. Will the VDOT standard be used?

Answer: Contractor shall use VDOT Road and Bridge Section 512.03, 4, (I) entitled Eradicating Pavement Markings.

Questions 9. The drawings show large quantities of temp. traffic control items being used, however, there are no bid items for temp. traffic control devices, eradication, signage or markings, etc... Will the district consider adding bid items to the itemized bid page so that all contractors can bid the same quantities?

Answer: Per page TS-29 of the Technical Specifications, Section 203.4.3, entitled Pavement Markings, letter b, it states, “Temporary Pavement Solid and Skip line markings, including Type F, will be considered incidental to the project.”

Question 10. Will the monthly VDOT adjustment for asphalt and fuel indices be utilized for invoicing any increases or decreases during the duration of the project?

Answer: The bid price shall be the price used throughout the extent of the project.

Question 11. What is the current depth of asphalt in each phase that is to receive both milling and paving?

Answer: As discussed in the Mandatory Pre-Bid meeting and as further described in the project Technical Specifications, Section 203.1 General, on page TS-20, the thickness of asphalt is variable due to the longitudinal camber in the bridge sections and the need to remove this longitudinal camber and provide for adequate cross slope with the asphalt lifts for ridability.

Question 12. Placement Limitations: The RFP states that the contractor cannot install the pavement wearing course on more than 50 bridge spans at a time without approval. Will approval be granted? How many LF are in 50 bridge spans?

Answer: Approval will be granted if the Contractor meets the project specifications.
North Bound 50 Bridge Spans = 3,750LF
South Bound 50 Bridge Spans = 5,000LF

Question 13. Placement Limitations: How long will the district take to approve the pavement wearing course before the contact will be permitted to move onto another 50 span section?

Answer: The length of time the District takes to approve a 50 span section will be greatly dependent on the information submitted to the District proving that the Contractor is compliant with the technical specification. If the Contractor provides a clear concise demonstration of meeting the project specifications, per the specifications, the turnaround time could be as little as a day or two. If the Contractor provides a poor submittal that is unclear, and/or points of clarification are needed, it will take much longer.

Question 14. Will the contractor be able to park equipment within a lane closure on the bridge when it is not being used?

Answer: When the Contractor is given a portion of CSB or all of CNB, the Contractor will have full utilization of said area. The Contractor will need to assure that they are not exceeding the HS-20 loading.

Question 15. Please clarify that the 1 EA impact attenuator list in bid item #20 includes all 20 barrels?

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Answer: The 1 EA impact attenuator, bid item 20, can be found on Drawing G-501, entitled Arrow Board and Impact Attenuator and refers to the entire array of barrels shown.

All other RFB documents previously provided remain in effect. Bidders are required to formally acknowledge the receipt of this and all other addenda on Page 5, entitled "Acknowledgment of Revisions", in the Instruction to Bidders, or their bid will be considered incomplete.

Sincerely,



Timothy R. Holloway
Director of Maintenance

/sjl

Attachments: Itemized Bid Sheets (3 pages)
Technical Specifications (Pages TS-15, TS-16 TS-17)

RMF # 2053.2025, Bid # M-19-001, Mill and Repave Trestles, Repair End Dams
 BID TO THE CHESAPEAKE BAY BRIDGE AND TUNNEL DISTRICT

ITEMIZED BID - Stage I

Item No.	Description	Qty	Unit	Unit Price	Total Price
Mobilization					
1	Mobilization	1	L. S.	\$ _____	\$ _____
Milling					
2	Asphalt Overlay Milling (full depth)	179,050	S.Y.	\$ _____	\$ _____
Asphalt					
3	Asphalt Overlay Installation	28,360	TON	\$ _____	\$ _____
Permanent Pavement Markings					
4	Permanent Pavement Markings Type B, Class I Thermoplastic Paint 6" Solid White	51,375	L.F.	\$ _____	\$ _____
5	Permanent Pavement Markings Type B, Class I Thermoplastic Paint 8" Solid White	912	L.F.	\$ _____	\$ _____
6	Permanent Pavement Markings Type B, Class I Thermoplastic Paint 6" Solid Yellow	63,130	L.F.	\$ _____	\$ _____
7	Permanent Pavement Markings Type B, Class I Thermoplastic Paint 8" Solid Yellow	625	L.F.	\$ _____	\$ _____
8	Permanent Pavement Markings Type B, Class I Thermoplastic Paint 12" White Gore	800	L.F.	\$ _____	\$ _____
9	Permanent Pavement Markings Type B, Class I Thermoplastic Paint 12" Yellow Gore	670	L.F.	\$ _____	\$ _____
10	Permanent Pavement Markings Type B, Class I Thermoplastic Paint 6" Dashed White	14,990	L.F.	\$ _____	\$ _____
11	Permanent Pavement Markings Type B, Class I Thermoplastic Paint 6" Dotted White	525	L.F.	\$ _____	\$ _____
12	Lanes Reduction Arrows Type B, Class I Thermoplastic Paint White	2	EA.	\$ _____	\$ _____
13	Permanent Pavement Markings Type B, Class VI Tape 6" Solid White	10,054	L.F.	\$ _____	\$ _____
14	Permanent Pavement Markings Type B, Class VI Tape 6" Dashed White	2,365	L.F.	\$ _____	\$ _____

Permanent Pavement Markings Type B, Class VI Tape				
15 6" Solid Yellow	10,511	L.F.	\$ _____	\$ _____

Permanent Pavement Markings Type B, Class VI Tape				
16 12" Yellow Gore	710	L.F.	\$ _____	\$ _____

Rumble Strips

17 Install Rumble Strips in Asphalt Overlay	26,281	L.F.	\$ _____	\$ _____
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18 Liquid Asphalt Coating (Rumble Strips)	26,281	L.F.	\$ _____	\$ _____
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Permanent Traffic Control Devices

19 Arrow Board Foundation	1	EA.	\$ _____	\$ _____
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20 Impact Attenuater	1	EA.	\$ _____	\$ _____
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21 Barrel/Drums	21	EA.	\$ _____	\$ _____
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22 Cones	13	EA.	\$ _____	\$ _____
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23 Tubular Markers - Yellow	18	EA.	\$ _____	\$ _____
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24 Object Markers - OM3-L	8	EA.	\$ _____	\$ _____
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Elastomeric Expansion Joints Removal/Install

25 Elastomeric Expansion Dam Removal CNB @ 28' Wide	33	EA.	\$ _____	\$ _____
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Elastomeric Expansion Dam Removal CNB EPO's 4 ea				
26 @75' each side with 3 joints @ 11' each side	4	EA.	\$ _____	\$ _____

27 Elastomeric Expansion Dam Removal CSB @ 36' Wide	157	EA.	\$ _____	\$ _____
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28 Elastomeric Expansion Dam Install CNB @ 28' Wide	41	EA.	\$ _____	\$ _____
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Elastomeric Expansion Dam Install CNB EPO's 4 ea				
29 @75' each side longitudinal and 3 joints @ 11' each side transverse	4	EA.	\$ _____	\$ _____

30 Elastomeric Expansion Dam Install @ 36' Wide	157	EA.	\$ _____	\$ _____
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Armored Joint Removal/Repair

31 Armored Joint Header Repair	1,900	L.F.	\$ _____	\$ _____
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32 Armored Joint Header Removal @ 28' Wide	8	EA.	\$ _____	\$ _____
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Concrete Deck Repair

33 Concrete Deck Repair, Type A Patching	5,260	S.F.	\$ _____	\$ _____
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34	Concrete Deck Repair, Type B Patching	1,052	S.F.	\$ _____	\$ _____
35	Concrete Deck Repair, Type C Patching	527	S.F.	\$ _____	\$ _____

Expansion Joints Remove/Install

	Remove (2) Sliding Plate Expansion Joints and Install				
36	Two (2) Tooth Expansion Joint Assembly CSB	1	LS	\$ _____	\$ _____
	Temporary Arrow Board per Addendum, Points of				
37	Clarification 1.	1	LS	\$ _____	\$ _____

TOTAL BID \$ _____

202.1.3 Permanent Pavement Markings

202.1.3.1 PI#4 (Type B, Class I Thermoplastic Paint)

DESCRIPTION	DISTANCE (LF)
6" Solid White	1,020
8" Solid White	722
8" Solid Yellow	625
6" Solid Yellow	1,260
12" White Gore	400
12" Yellow Gore	350

202.1.3.2 Trestle CNB (Type B, Class I Thermoplastic Paint)

DESCRIPTION	DISTANCE (LF)
6" Solid White	24,111
8" Solid White	190
6" Dashed White	6,006
6" Dotted White	280
6" Solid Yellow	24,111

202.1.3.3 NCB-NB (Type B, Class VI Tape)

DESCRIPTION	DISTANCE (LF)
6" Solid White	3,793
6" Dashed White	949
6" Solid Yellow	3,793

202.1.3.4 Trestle DNB (Type B, Class I Thermoplastic Paint)

DESCRIPTION	DISTANCE (LF)
6" Solid White	1,351
6" Dashed White	338
6" Solid Yellow	1,351

202.1.3.5 Trestle CSB

DESCRIPTION	DISTANCE (LF)
Asphalt Areas (Type B, Class I Thermoplastic Paint)	
6" Solid White	23,278
6" Dashed White	5,220
6" Dotted White	145
6" Solid Yellow	23,278
12" White Gore	400
12" Yellow Gore	320
Lane-Reduction Arrow	2
Concrete Areas (Type B, Class VI Tape)	
6" Solid White	1,058
6" Solid Yellow	1,058
12" Yellow Gore	710

202.1.3.6 NCB-SB (Type B, Class VI Tape)

DESCRIPTION	DISTANCE (LF)
6" Solid White	3,100
6" Dashed White	775
6" Solid Yellow	3,100

202.1.3.7 Trestle DSB (Type B, Class VI Tape)

DESCRIPTION	DISTANCE (LF)
6" Solid White	2,103
6" Dashed White	526
6" Solid Yellow	2,103

202.1.3.8 Fishermans Island (Type B, Class I Thermoplastic Paint)

DESCRIPTION	DISTANCE (LF)
6" Solid White	1,370
6" Dashed White	2,088
6" Dotted White	50
6" Solid Yellow	8,350

202.1.3.9 FIB-SB (Type B, Class VI Tape)

DESCRIPTION	DISTANCE (LF)
6" Dashed White	115
6" Solid Yellow	457

202.1.3.10 Wise Point (Type B, Class I Thermoplastic Paint)

DESCRIPTION	DISTANCE (LF)
6" Solid White	245
6" Dashed White	1,338
6" Dotted White	50
6" Solid Yellow	4,780

202.1.4 Install Rumble Strips in Asphalt Overlay

STRUCTURE	DISTANCE (LF)
Trestle CSB	24,336
PI#4	1,945

202.1.5 Liquid Asphalt Coating (Rumble Strips)

STRUCTURE	DISTANCE (LF)
Trestle CSB	24,336
PI#4	1,945

202.1.6 Permanent Traffic Control Devices

DEVICE	QUANTITY (EACH)
Arrow Board Foundation	1
Impact Attenuator	1
Barrel/Drums	21
Cones	13
Tubular Markers - Yellow	18
Object Markers – OM3-L	8

202.2 ELASTOMERIC EXPANSION DAM REMOVAL AND INSTALL

202.2.1 Elastomeric Expansion Dam Removal

There are 33 span joint expansion dams (28-foot wide) on Trestle CNB (Spans 1, 272 – 279, 281 – 283, 285, 294, 296, 297, and 305), 4 EPO Locations that have Longitudinal Joints (on each side of the 4 75-foot long longitudinal open joints) and Transverse Joints (on each side of the 3 approximately 11-foot long transverse open joints) on Trestle CNB (Spans 64 – 67, 136 – 139, 226 – 229, and 310 – 313) and 157 span joint expansion dams on Trestle CSB (36-foot wide). Pay unit for this is “each”.

STRUCTURE	DAMS (EACH)
Trestle CNB	33
Trestle CNB EPO Locations	4
Trestle CSB	157