

Board of Public Works
Special Meeting
Thursday, June 3, 2021
6:00 p.m. at the City of Bristol Dept. of Public Works Facility
95 Vincent P Kelly Road, Bristol, CT 06010

Remotely via Zoom
Meeting ID: 969 8662 6114
Passcode: 014024
By phone: 1-929-205-6099

<https://bristolct-gov.zoom.us/j/96986626114?pwd=c1VDblIHdnJaU1I2RXhoWERNRGRNUT09>

1. Call To Order
2. Memorial Boulevard Bridge Project
 - A. Request To Replace Entire Length Of Retaining Wall

Documents:

05.27.21 - Email RE Mem. Blvd. Retaining Wall.pdf
05.29.21 BOF Request re Mem. Blv. Retaining Wall.pdf

3. Tour
 - A. Dept. Of Public Works Facility At 95, Vincent P Kelly Road
4. DPW Vehicles Logo
 - A. Proposed Revisions

Documents:

06.01.21 Memo RE. - DPW Vehicles Logo.pdf

5. Adjournment
6. Signature

Raymond A. Rogozinski, P.E.
Director of Public Works

Robin Klug

From: Mears, Ricky <RMears@benesch.com>
Sent: Thursday, May 27, 2021 1:59 PM
To: Raymond Rogozinski
Cc: Nancy Levesque; Habek, Mark; 70617.03; Scrittorale, Ryan
Subject: RE: Bristol Mem Blvd Retaining Wall

Ray,

The wall in its entirety is approximately 587 LF for point of discussion.

The “Recommend Replacement” (442 LF) (75% of the wall) areas exhibit significant deterioration:

1. Full height cracks (generally > 1/2” wide), some penetrating the full depth of the wall
2. Large spalls and large hollow areas
3. Tilting and differential settlement of the wall
4. Areas of missing footing
5. Undermining of footing
6. Punky concrete, where the concrete can easily be penetrated with a small hammer
7. Clogged weep holes, not allowing for relief of hydro-static pressure behind the wall
8. These areas show advanced signs of a wall failure in the short-term and are similar to that of the failed section of wall in the River

The “Consider Replacement” (145 LF) (25% of the wall) area exhibits the following deterioration:

9. Full height hairline cracks (generally < 1/8” wide), none have penetrated the full depth of the wall
10. Smaller spalls and isolated hollow areas
11. No undermining of the footing or areas of missing footing
12. Clogged weep holes, not allowing for relief of hydro-static pressure behind the wall
13. This area shows the early signs of a wall failure, once cracks develop further the wall may fail, similar to bullet 8 discussion point above.

We understood the City’s funding obligations, but also wanted to convey our structural opinion.

While in theory, the 145 LF section of wall does not require immediate replacement; however, there are efficiency, constructability, and risk factors to consider, that we discussed at the meeting.

- 12’ to 15’ deep excavation will be required on the upstream and downstream side of the 145 LF of “Consider Replacement” Wall.
 - o Given the unknown conditions behind the wall, we could unintentionally undermine the existing wall
- If 75% of the wall is being replaced, the majority of the mobilization costs and other contractor costs are already expended. Therefore, a separate project to replace the 145 LF of wall would be more expensive than replacing the wall now
- Given number 13 above, we feel the most economical and structurally beneficial solution is still to replace the entire wall. The need is not imminent like the other sections.

Let us know if you need anything else.

Ricky D. Mears, PE | Project Manager | Public Infrastructure Group Manager

Alfred Benesch & Company | 120 Hebron Avenue, Floor 2, Glastonbury, CT 06033

P 860-633-8341 x7234 | Direct: 860-494-4421 | C 860-938-2996 | E rmears@benesch.com | W www.benesch.com

From: Raymond Rogozinski <RaymondRogozinski@bristolct.gov>

Sent: Thursday, May 27, 2021 1:10 PM

To: Scrittorale, Ryan <RScrittorale@benesch.com>

Cc: Mears, Ricky <RMears@benesch.com>; Nancy Levesque <NancyLevesque@bristolct.gov>

Subject: Bristol Mem Blvd Retaining Wall

As indicated in the attached email, the Benesh existing wall evaluation report utilized the terms “consider” and “recommend” to be replaced.

Please provide additional information/clarification on Benesh’s difference between “consider” and “recommend”.

Thanks

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**CITY OF BRISTOL
BOARD OF FINANCE AGENDA REQUEST FORM**

To: Board of Finance Commissioners

From: Public Works
(Requesting Department)

Date: May 29, 2021
(Submission Date)

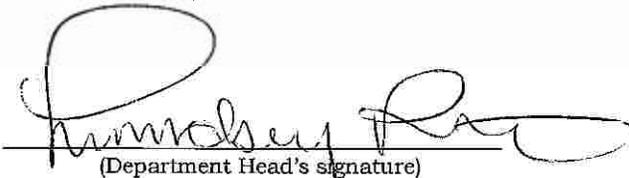
For the: June 8, 2021 Board of Finance Meeting Agenda
(Date of Meeting)

This request is for:
(Please check the type of request and list in whole dollar amounts)

- Additional Appropriation \$ 750,000
- Transfer from Contingency \$ _____
- Transfer(s) \$ _____
- Grant \$ _____
- Carry-over(s) \$ _____
- Other

Approval:

This request was approved by the Board of Public Works at a special meeting held June 3, 2021.


(Department Head's signature)

All requests to appear on the Board of Finance meeting agenda for consideration must be submitted to Jodi McGrane in the Comptroller's Office by 10:00 a.m. Monday of the preceding week of the meeting. Board of Finance Meetings are held on the fourth Tuesday of each month at 5:30 p.m. in the Council Chambers.

Board of Finance Agenda Request Form

1. Reason for request:

The Department of Public Works is managing the project to replace the collapsed retaining wall located on the western end of Memorial Blvd Park for the Park Department. The wall is located along the Pequabuck River.

The section of wall that collapsed last fall is 140 LF in length and approximately 8 ft. high. The length of the entire wall is 593 ft and extends just east of the collapsed section west to the NAPA building.

The City hired the engineering firm of Benesh Inc. to design the replacement wall. Prior to the completion of the design, DPW estimated the need to replace the collapsed wall section (approximately 200 ft of the 593 ft. wall) and the need to provide additional support to the remaining wall sections with the use of deadman at a cost of \$750,000.

As part of the services of Benesh Engineering they inspected the entire length of the wall and evaluated several options to replace and/or support the wall. One of the primary design considerations was scouring at the footing of the wall along the river. As a result of high water velocities and the high potential of eroding soil below the retaining wall the footings are designed to be 4 feet below the bottom of Pequabuck River bed. Soil boring performed as part of the design dictated the need of sheet piling during construction. In addition, as indicated in the attached correspondence based on Benesh Engineers assessment the entire 593 ft. wall must be replaced. The use of deadman will not provide adequate support to the existing wall due to scour.

It should be noted that the cost to place approximately 200 ft. of retaining wall of similar height adjacent to the west end parking lot cost the City approximately \$165,000, but the footing were not installed below the river bottom and scour was addressed with placement of surge stone along the river edge.

The City received three bids to replace the wall with the lowest bid received by Trademark Construction in the amount/ adjusted to replace the entire 593 lf retaining wall of \$1,500,000, therefore the DPW is requesting an additional appropriation of \$760,000.

The project also includes the removal and replacement of nine memorial trees adjacent to the retaining wall. The replacement/ new trees will be 15-18 ft. in height.

One of the City's goal/concern is to complete installation of the retaining wall prior to the 100 year centennial celebration of the Mem Blvd Park.



Department of Public Works | 860.584.6125

DATE: June 1, 2021

TO: Mayor Ellen Zoppo-Sassu
Board of Public Works

FROM: Raymond A. Rogozinski, P.E., Director of Public Works

RE: DPW Vehicle Logo

Please find attached a potential new logo design for the DPW vehicles. As indicated, the proposed logo consists of a "B", and a black gear. No color is proposed for around the "B". The void would be the same yellow as the vehicle or silver, in the case of passenger vehicles.

The DPW recently received delivery of a new dump truck and is anticipating shipment of a new rubbish/recycling truck. Currently, magnetic logos made in DPW sign shop will be installed on both vehicles.

Please feel free to contact me with questions at, 1-860-584-6113.

