

**Replacement of the 31<sup>ST</sup> Street, NW  
Bridge over C&O Canal  
(Bridge No. 3)  
DCKA-2018-C-0056  
FAP No:2017(037)**



**Construction Management Weekly Report**  
**1/02/2021 – 1/08/2021**

**Project Website: [www.31stStreetBridge.com](http://www.31stStreetBridge.com)**

## 1. EXECUTIVE SUMMARY

### Project Description

Work under this contract consists of the replacement of the 31st Street Bridge over the C&O Canal in Georgetown. The existing two-span bridge superstructure is to be removed in its entirety and replaced by a new single-span, steel, multi-girder superstructure on new independent abutments constructed behind the existing canal walls. The proposed bridge will have a reinforced concrete deck. The existing canal walls are to remain in place with minor wall maintenance. The existing historic pier is to be removed, salvaged, rehabilitated, and reset in its original location, but will no longer support the bridge. Minor approach roadway reconstruction and sidewalk improvements are also part of the project. Service via existing utilities that currently hang on the bridge must be maintained throughout construction.

### Proposed work will include but not be limited to:

- Installation of a temporary pedestrian bridge prior to construction in order to maintain pedestrian access across the C&O Canal at all times
- Installation of temporary structures required to laterally support existing Canal Walls
- Removal, salvage and restoration of the historic pier
- Installation of temporary utility supports during construction, protection of existing utilities, and coordination with utility companies for relocation prior to bridge replacement
- Removal, relocation and installation of various utility components, manholes, and related items
- Installation and removal of a portable dam system within the canal
- Removal, storage and reinstallation of existing streetlight poles and signposts
- Removal, storage and reinstallation of the stone monument, wooden signposts, and Canal Wall elements
- Removal and disposal of the existing bridge superstructure in its entirety, and construction of new abutments and superstructure
- Construction of
  - Granite curb
  - Brick gutter
  - PCC base with brick/tile sidewalk
  - Wheelchair/bicycle ramps
- Installation of pedestrian railing

## 2. STATUS OF CONSTRUCTION / PROGRESS SUMMARY

### Progress Summary:

- Fort Myer Construction Company (FMCC) implemented the project detour on June 11, 2019 and set up the construction zone perimeter.
- The pedestrian bridge was delivered, assembled, and set on the abutments; and opened for use on June 28, 2019.
- NPS continues to maintain water flow in the canal, and the cofferdams are working properly.
- The pier footing investigation was completed, and the pier assessment/restoration plan has been submitted for review and comment.
- The water main relocation and installation of the canal wall support is completed.
- Demolition of existing bridge deck has been completed.
- Demolition of Verizon wood conduits (by Verizon) was completed.
- Removal of the beams located in the middle of Verizon conduits completed.
- Micropile drilling on the south and north sides of the bridge was completed on December 21, 2019.
- Placement of reinforcement and grout started on December 9, 2019 at the north side of the bridge and was completed on December 11, 2019.
- Cleaning and priming of the historic pier completed; UT and MT investigations were completed, and results distributed; pier assessment meeting held in the field January 21, 2020
- Pier assessment/rehabilitation report provided February 3, 2020 and distributed to stakeholders for review and comment. AECOM comments submitted February 14, 2020
- Pier footing meeting held on February 24, 2020; pier rehab meeting held on February 24, 2020. Both meetings to discuss path forward for all items related to the pier. Revised Pier Report (Rev 1) submitted on March 5, 2020 for review and comment. DDOT suspended stakeholder review on March 12, 2020; DDOT recommended using the spreadsheet to compile the defects and repairs in a tabular format, for clarity and tracking purposes. DDOT sent comments on March 17, 2020 and FMCC to resubmit accordingly. AECOM comments on Rev 2 submitted May 13, 2020. NPS comments on Rev 2 submitted May 22, 2020. FMCC submitted Submittal 67 Rev 3 on June 5, 2020 for review.
- Pepco outage completed March 17, 2020; next outage set for June 17, 2020.
- Verizon asbestos removal completed w/e March 20, 2020; split-duct work completed April 8, 2020; FMCC to complete Verizon work under DCI.
- Placement of concrete at north abutment complete; Placement of concrete at south abutment complete.
- Beam placement complete w/e of May 22, 2020.
- Placement of forms and rebar for bridge deck complete.
- Pepco confirmed outage was completed June 30, 2020. No more expected.
- Deck concrete pour completed on Thursday, July 30, 2020.
- Sidewalk concrete pour on bridge complete August 20, 2020.
- Removed deck/sidewalk forms from bridge August 29, 2020.
- Removal of temporary utility supports completed September 4, 2020.
- Diaphragm connections completed September 4, 2020.
- Repointing of canal wall (south side) completed; repointing of canal wall (north side) completed.
- Installation of bridge railing ongoing; construction of SW wall completed.

- Installation of granite curbs and inlets along sidewalk
- Construction of ADA ramps completed.
- Utility Trench repair with PCC Pavement completed.
- Placement of concrete for approach slabs completed (north side).
- Placement of roadway asphalt completed at approach roadways.
- Pier rehabilitation completed (stitching completed; epoxy hole repairs completed; painting completed December 4, 2020).
- Placement of brick sidewalk on bridge completed.
- Placement of brick sidewalk on approaches completed.
- Re-adjustment of base plate at SE corner completed.
- Removal of temporary pedestrian bridge completed.
- Cleaning of brick sidewalks ongoing
- Superstructure and substructure punch list underway
- Final installation of Dolphins underway
- Removal of coffer dam and bypass pipe completed; grading of canal bed underway

**Ongoing Issues / Items:** None at this time

**New Issues / Items:** None at this time

**Action Items:** None at this time

**New Action Items:** None at this time.

### 3. MEETINGS / PROJECT COORDINATION

- Progress Meeting #37 was held on Wednesday January 6, 2021 at 10:00 AM via ZOOM Telecon

### 4. DAILY WORK PERFORMED

**Field construction activities performed during this period:**

#### **Saturday – 1/02/2021**

- The 31<sup>st</sup> Street detour remained in effect and FMCC continued providing local and business traffic access at M and K Streets.
- The contractor did not work on this date.

#### **Sunday – 1/03/2021**

- The 31<sup>st</sup> Street detour remained in effect and FMCC continued providing local and business traffic access at M and K Streets.
- The contractor did not work on this date.

#### **Monday – 1/04/2021**

- The 31<sup>st</sup> Street detour remained in effect and FMCC continued providing local and business traffic access at M and K Streets. West sidewalk remained opened for pedestrian traffic.
- The contractor completed additional repointing of cracks at the south canal wall.
- The contractor finished filling the voids between the dolphins and the sleeves with sand.
- The contractor removed the conduit around the cables at the KADCON building and reconnected the separated Verizon conduits between bays B6 and B7.
- The contractor installed the lockable bollard at the edge/front of the pavers at the north eastern corner of the towpath to the pre-construction conditions

- The contractor fixed the light pole at the south east corner of the bridge.

**Tuesday – 1/05/2021**

- The 31<sup>st</sup> Street detour remained in effect and FMCC continued providing local and business traffic access at M and K Streets. West sidewalk remained opened for pedestrian traffic.
- The contractor started caulking along the edge of the north approach slab close to the granite stone.
- The contractor removed the PCC barriers at the project limits.
- The contractor continued working on resolving the items listed in the substructure and superstructure punch lists.

**Wednesday – 1/06/2021**

- The 31<sup>st</sup> Street detour remained in effect and FMCC continued providing local and business traffic access at M and K Streets. West sidewalk remained opened for pedestrian traffic.
- The contractor continued caulking along the edge of the north approach slab close to the granite stone.
- The contractor painted the existing streetlights poles located at the south east and north west sides of the bridge.
- The contractor installed the pedestrian crossing signs on the ramps located at the north section of the bridge.
- Georgetown BID removed and reclaimed the decorative fence banners and greenery that were installed at the beginning of the project
- The contractor continued working on resolving the items listed in the substructure and superstructure punch lists.

**Thursday – 1/07/2021**

- The 31<sup>st</sup> Street detour remained in effect and FMCC continued providing local and business traffic access at M and K Streets. West sidewalk remained opened for pedestrian traffic.
- The contractor continued caulking along the edge of the north approach slab close to the granite stone.
- The contractor re-installed "Loading/Unloading" sign at the SW corner in front of the Rosewood Hotel.
- FMCC continued working on resolving the items listed in the substructure and superstructure punch lists

**Friday – 1/08/2021**

- The 31<sup>st</sup> Street detour remained in effect and FMCC continued providing local and business traffic access at M and K Streets.
- The contractor started installation of the aluminum caps on top of the dolphins (Timber Fenders) around the historic pier under the bridge.
- The contractor continued working on resolving the items listed in the substructure and superstructure punch lists
- The contractor conducted a general site cleaning and power washed the bridge deck.

**4. PUBLIC OUTREACH**

Public Outreach performed during this period:

- Responded to citizen and business inquiries about scheduled opening of the bridge; met with business owners on-site and discussed pedestrian detour pattern and answered general site questions and those specifically about the opening.

**5. INSPECTION & MATERIAL TESTS PERFORMED**

- None at this time.



## 6. CHANGE ORDERS / TASK ORDER

- Change Order No. 1 submitted to DDOT (Bedrock excavation, Pepco conduit demo, beam removal) March 12, 2020.
- Change Order No. 2 to include micropile VE package under review with DDOT.
- Change Order No. 3 provided 90-day time extension to FMCC.
- Change Order No. 4 provided additional 45-day no-cost time extension to FMCC.
- Change Order No. 5 (previously CO #4) under review with DDOT.
- Change Order No. 6 provided an additional 180-day no-cost time extension to FMCC.
- Change Order No. 7 is being compiled to include remaining items

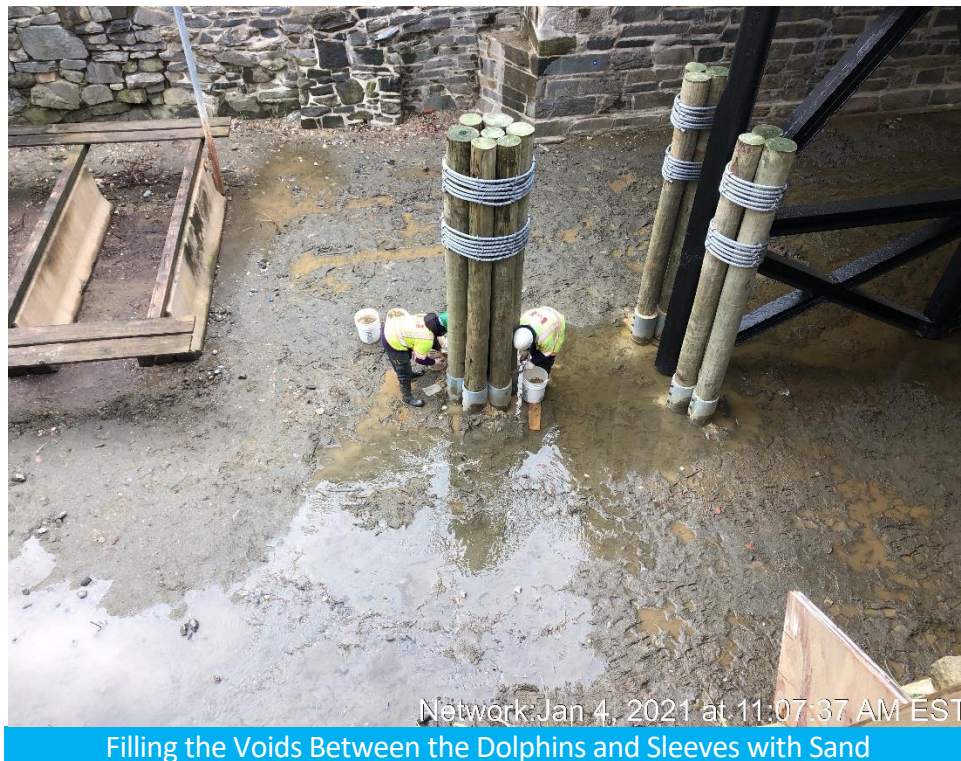
## 7. DBE PARTICIPATION SUMMARIES

- No DBE work performed at this time.

## 8. ACCIDENTS / INCIDENTS

- There were no reported accidents within the project limits this week.

## PHOTOS OF WORK PERFORMED THIS PERIOD







Network Jan 4, 2021 at 8:55:11 AM EST

Repointing Stone Cracks at the South Canal Wall



Network Jan 4, 2021 at 11:51:20 AM EST

Caulking Preparation at the SE Corner





Network: Jan 5, 2021 at 2:48:58 PM EST

Caulking Around the Ramp at the NE Corner



Network: Jan 5, 2021 at 3:05:38 PM EST

Removing the PCC Barriers





Repainting the Existing Light Pole at the SE Side of the Bridge

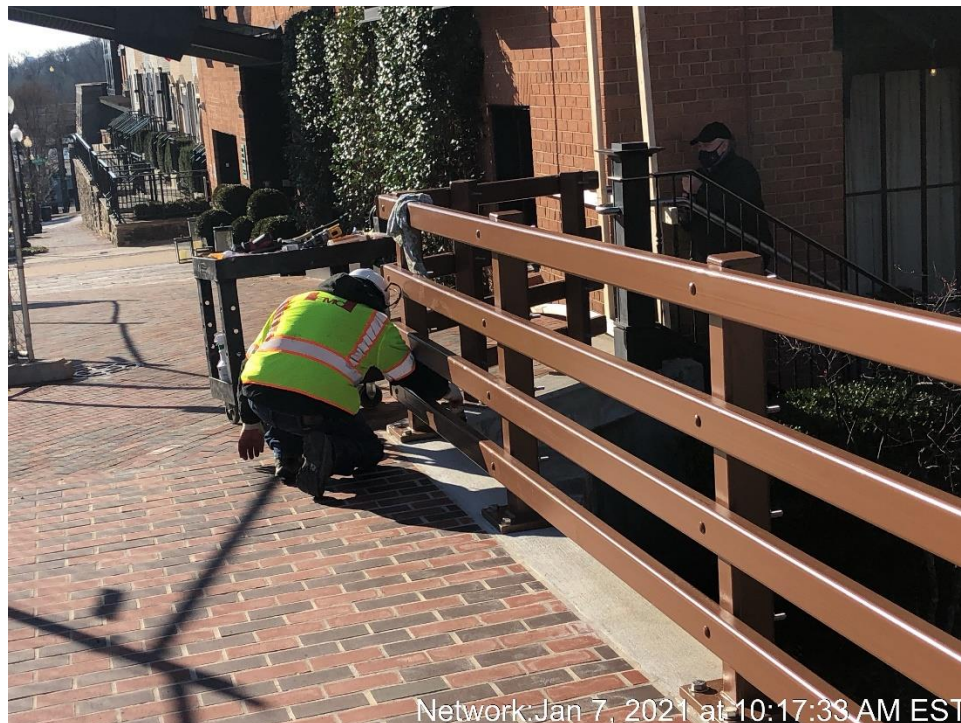


Decorative Fence and Greenery Removal by the BID



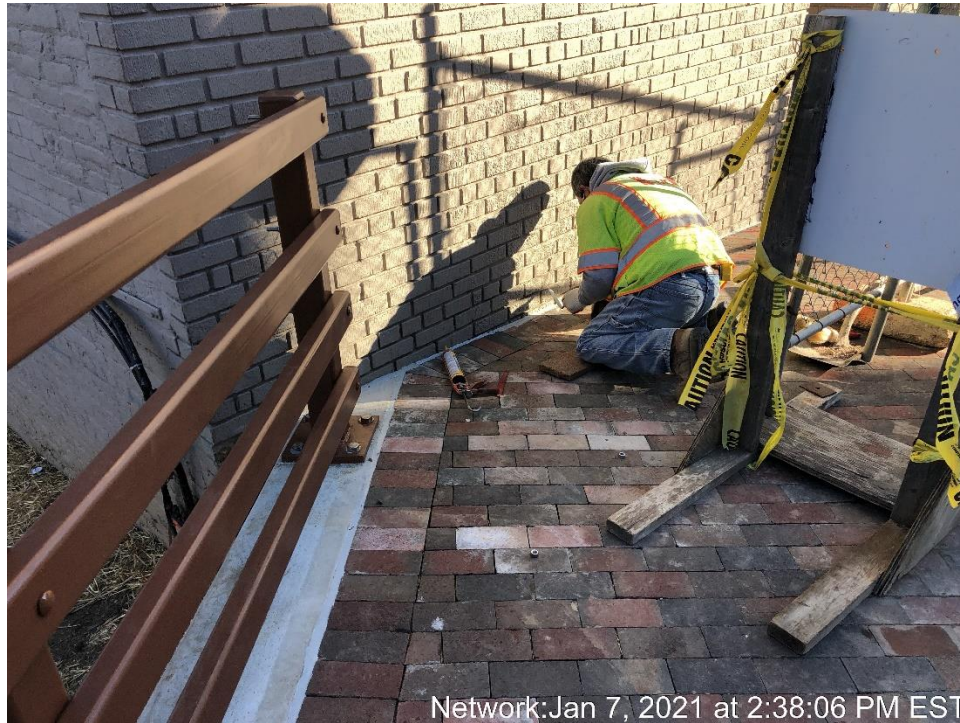


Network: Jan 6, 2021 at 2:25:26 PM EST  
Caulking at the NE Corner



Network: Jan 7, 2021 at 10:17:33 AM EST  
Railing Paint Touch Up at the SW Corner





Network: Jan 7, 2021 at 2:38:06 PM EST

Caulking Along the Sidewalk at the SE Corner



Network: Jan 7, 2021 at 2:03:29 PM EST

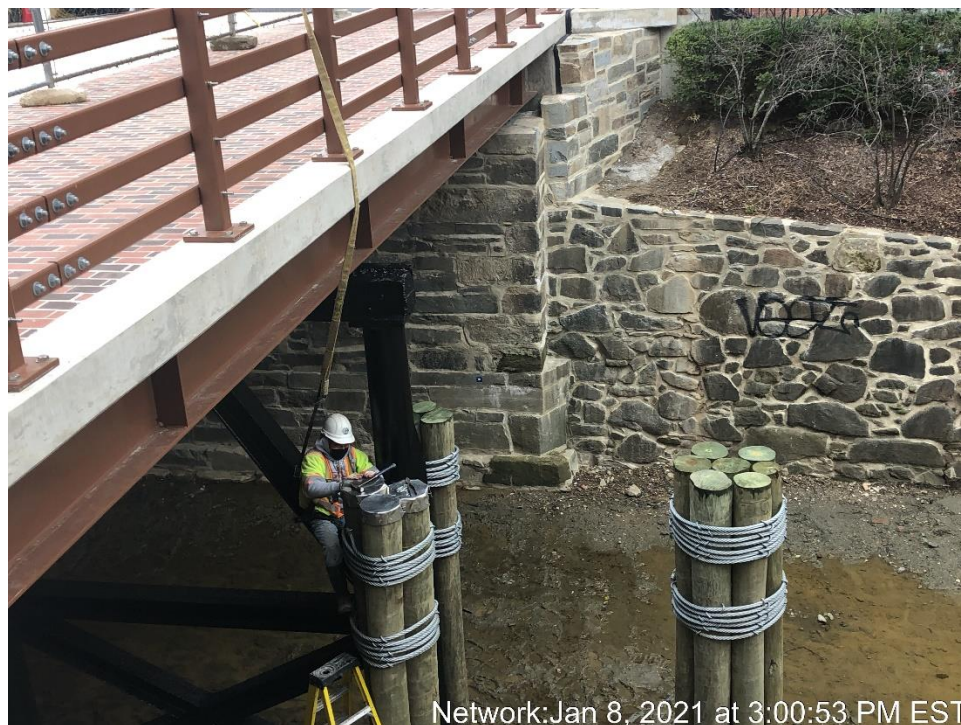
Cleaning the Bridge Deck and Sidewalks





Network: Jan 8, 2021 at 9:56:11 AM EST

Paint Touch Up on the Historic Pier



Network: Jan 8, 2021 at 3:00:53 PM EST

Installation of Aluminum Cap on Top of the Dolphins