

**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)**



31<sup>st</sup> Street Bridge over C&O Canal

**Construction Management Weekly Report**  
**9/19/2020 – 9/25/2020**

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

**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 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 8/20/2020.
- Removed deck/sidewalk forms from bridge 8/29/2020.
- Removal of temporary utility supports completed 9/4/2020.
- Diaphragm connections completed 9/4/2020.
- Repointing of canal Wall (south side) completed; repointing of canal wall (north side) ongoing

**Ongoing Issues / Items:** Resolution of SW Wall design; NPS and AECOM comments provided

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

**Action Items:** None at this time

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

### 3. MEETINGS / PROJECT COORDINATION

- DDOT, Volkert and FMCC Field Meeting for the SW Wall was held on Tuesday September 22, 2020.
- Progress Meeting #33 will be held on Wednesday September 30, 2020 at 10:00 AM via ZOOM Telecon.

### 4. DAILY WORK PERFORMED

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

#### **Saturday – 9/19/2020**

- 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 – 9/20/2020**

- 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 – 9/21/2020**

- 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 continued the repointing work of the canal wall stones at the south abutment.
- The contractor started the preparation for the installation of water proofing fabric centered at the hinge at the south abutment.
- Subcontractor Omni Excavators continued the placement and compaction of aggregate based material (GAB) for the 12-inch water line trench at the north approach section of the bridge.
- The contractor conducted a general site cleaning and replaced the expired No Parking Sign under extended Occupancy Permit.
- The contractor continued dewatering the work zone.

#### **Tuesday – 9/22/2020**

- 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 continued the repointing work of the canal wall stones at the south abutment.
- The contractor continued the preparation work for the installation of water proofing fabric centered at the hinge at the south abutment.
- Subcontractor Omni Excavators continued the placement and compaction of aggregate based material (GAB) for the 12" Water Line trench at the north approach section of the bridge
- The contractor continued dewatering the work zone.

#### **Wednesday – 9/23/2020**

- 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 continued the repointing work of the canal wall stones at the south abutment.

- The contractor placed 5.0 CY of 3000 psi flowable fill concrete around Pepco and Verizon conduits at the south and north abutments.
- The contractor continued the placement and compaction of graded aggregate-based material for the 12" Water line at the south and north approach sections of the bridge. DDOT QA/QC inspector (Charles) was onsite monitoring the placement and conducting density tests for the compaction of the GAB.
- The contractor continued dewatering the flooded work zone.

**Thursday – 9/24/2020**

- 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 continued working on repairing and repointing of the canal wall stones at the south abutment.
- The contractor adjusted the frame and cover for Pepco manhole located at the north side of the bridge.
- The contractor continued dewatering the work zone.

**Friday – 9/25/2020**

- 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 continued working on repairing and repointing of the canal wall stones at the south abutment.
- The contractor continued dewatering the flooded work zone.

**4. PUBLIC OUTREACH**

Public Outreach performed during this period:

- Responded to citizen inquiry about lights on the pedestrian bridge; general inquiries from BID about contractor parking on south side.

**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 (previously CO #3) to include micropile load testing, micropile over drilling, stone cutting, wood railings and waterline diaphragm connections; submitted to DDOT for review June 9, 2020; FMCC to provide responses to DDOT comments.

**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.

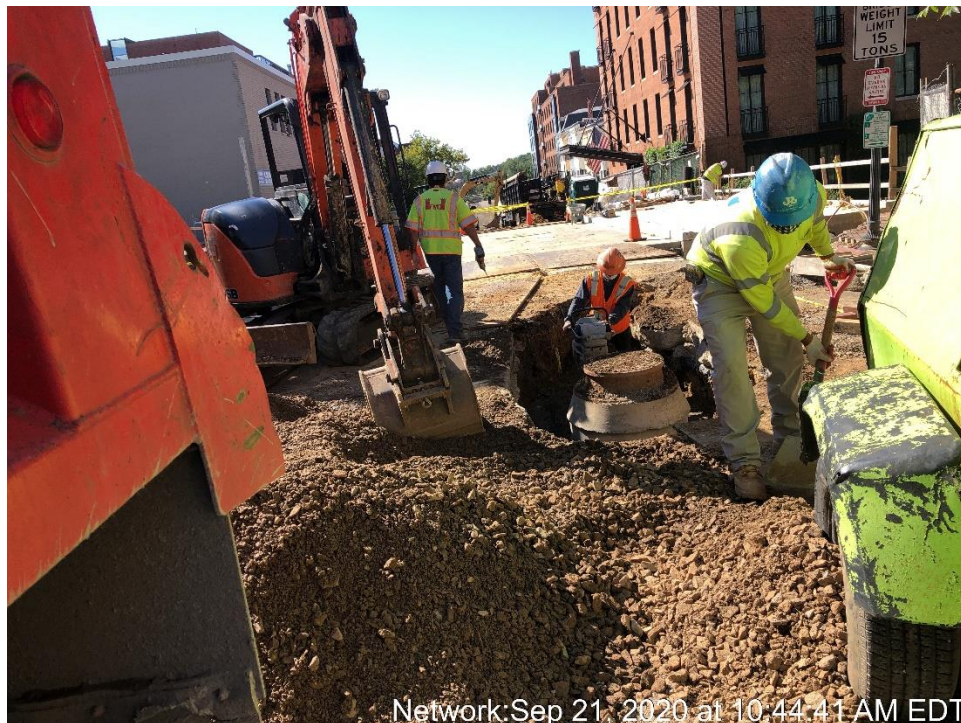


8. PHOTOS OF WORK PERFORMED THIS PERIOD



Network: Sep 21, 2020 at 9:47:29 AM EDT

Repairing and Repointing at the South Canal Wall



Network: Sep 21, 2020 at 10:44:41 AM EDT

Backfill for the Water Line Trench North of the Bridge





Replacing the No Parking Signs



South West Wall Field Meeting





Backfill for the Water Line Trench South of the Bridge



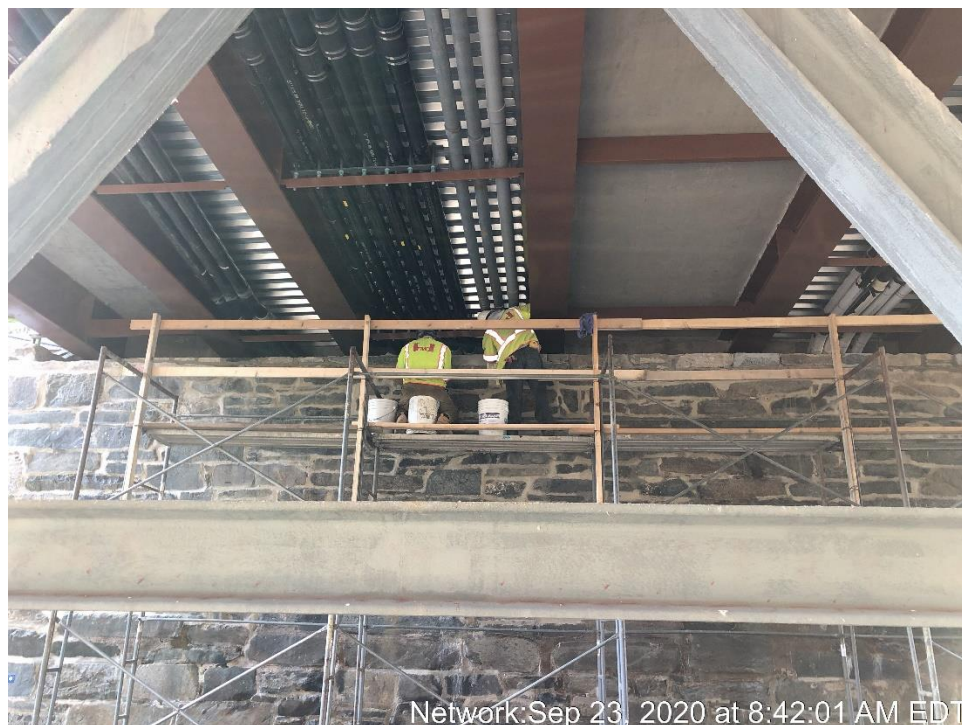
Repairing and Repointing at the South Canal Wall





Network: Sep 23, 2020 at 8:28:49 AM EDT

Placement of Flowable Fill Concrete at the South Abutment



Network: Sep 23, 2020 at 8:42:01 AM EDT

Repairing and Repointing at the South Canal Wall





Network time is not synchronized

Density Testing for the GAB at the Water Line Trench



Network Sep 24, 2020 at 8:16:00 AM EDT

Adjusting Frame and Cover for Pepco Manhole North of the Bridge





Repairing and Repointing at the South Canal Wall



Repairing and Repointing at the South Canal Wall





Network: Sep 25, 2020 at 8:51:01 AM EDT

Repairing and Repointing at the South Canal Wall