

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



**Construction Management Weekly Report
8/29/2020 – 9/04/2020**

Project Website: 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 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) complete; repointing of canal wall (north side) ongoing

Ongoing Issues / Items: DDOT ADA Coordinator provide concurrence of resolution to sidewalk elevation discrepancy, per site meeting held on September 2, 2020

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 #31 was held on September 2, 2020 at 10:00 AM via ZOOM Telecon.
- Meeting with DDOT ADA Coordinator Cesar Barreto was held on September 2, 2020 at 1:00 pm on the project site to discuss ADA compliance at NE corner of the bridge.
- Meeting with NPS engineer Joe Reed was held on September 2, 2020 at 3:30pm at the project site to discuss retaining wall at SW corner and top of canal finishing.

4. DAILY WORK PERFORMED

Field construction activities performed during this period:

Saturday – 8/29/2020

- The 31st Street detour remained in effect and FMCC continued providing local and business traffic access at M and K Streets.
- The contractor started the removal of formwork and temporary utility support under the bridge deck.

Sunday – 8/30/2020

- The 31st 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 – 8/31/2020

- The 31st Street detour remained in effect and FMCC continued providing local and business traffic access at M and K Streets.
- The contractor continued the removal of formwork and temporary utility support under the bridge.
- The contractor continued working on repointing of the canal wall stones at the south abutment.
- The contractor continued dewatering the flooded work zone.

Tuesday – 9/01/2020

- The 31st Street detour remained in effect and FMCC continued providing local and business traffic access at M and K Streets.
- The contractor continued the removal of formwork and temporary utility support under the bridge.
- The contractor continued dewatering the flooded work zone.

Wednesday – 9/02/2020

- The 31st Street detour remained in effect and FMCC continued providing local and business traffic access at M and K Streets.
- The contractor started the repointing work of the Canal wall stones at the north abutment.
- The contractor continued the removal of formwork and temporary utility support under the bridge.
- The contractor started the diaphragms connections under the 12-inch water line at the north abutment.
- A field meeting with DDOT ADA Coordinator, Mr. Cesar Barreto, was held at 1:00 pm. The meeting discussed the sidewalk elevations at the northeast side of the bridge and ADA compliance.

- A field meeting with NPS engineer Mr. Joe Reed was held at 3:30 pm to discuss the southwest wall issues and observe the finishing on top of canal wall at the south abutment.
- The contractor continued dewatering the flooded work zone.

Thursday – 9/03/2020

- The 31st Street detour remained in effect and FMCC continued providing local and business traffic access at M and K Streets.
- The contractor continued working on repointing of the canal wall stones at the north abutment.
- The contractor continued the diaphragms connections under the 12-inch water line at the north abutment.
- Subcontractor Omni could not perform the scheduled pressure test for the 12-inch water line due to the congested work zone.
- The contractor continued dewatering the flooded work zone.

Friday – 9/04/2020

- The 31st Street detour remained in effect and FMCC continued providing local and business traffic access at M and K Streets.
- The contractor continued working on repointing of the canal wall stones at the North abutment.
- The contractor completed the diaphragms connections under the 12-inch water line.
- The contractor conducted general site cleaning and started paint touch up on the beams.
- The contractor delivered granite curb and removed the temporary utility support debris off the site.
- The contractor continued dewatering the flooded work zone.

4. PUBLIC OUTREACH

Public Outreach performed during this period:

- Responded to citizen and business inquiries.

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.

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



Removal of Temporary Utility Support and Formwork



Removal of Temporary Utility Support



Network: Aug 31, 2020 at 11:31:49 AM EDT
Removal of Temporary Utility Support



Network: Sep 1, 2020 at 11:52:57 AM EDT
Removal of Temporary Utility Support



Network: Sep 1, 2020 at 2:15:02 PM EDT

Removal of Temporary Utility Support



Network: Sep 2, 2020 at 11:55:36 AM EDT

Repointing at North Canal Wall



Network: Sep 2, 2020 at 12:57:04 PM EDT
Repointing at North Canal Wall



Network: Sep 2, 2020 at 3:20:22 PM EDT
Discussion about SW Wall with NPS Engineer



Repointing at North Canal Wall



Installation of Diaphragm Connection under 12-inch Water Main



Repointing at North Canal Wall



Repointing at North Canal Wall



Removal of the Formwork Debris