

**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  
10/17/2020 – 10/23/2020**

**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) ongoing
- Installation of bridge railing ongoing; construction of SW wall ongoing

- Installation of granite curbs and inlets along sidewalk ongoing
- Construction of ADA ramps

**Ongoing Issues / Items:** DC Water inspected/approved manhole for Air/Drain Blow-off Valve at north side of bridge.

**New Issues / Items:** Resolution of PCC Base for watermain trench repair (RFI 35.1)

**Action Items:** Resolution of RFI 61 (Hazard at SW Corner)

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

### 3. MEETINGS / PROJECT COORDINATION

- Progress Meeting #35 will be held on Wednesday October 28, 2020 at 10:00 AM via ZOOM Telecon.

### 4. DAILY WORK PERFORMED

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

#### **Saturday – 10/17/2020**

- 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 started the construction of PCC wheelchair ramps and PCC base for bricks sidewalks located at the northeast and northwest sides of the bridge. The contractor completed the excavation, placement of aggregate base material, and erection of formwork.

#### **Sunday – 10/18/2020**

- 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 – 10/19/2020**

- 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 continued the construction of wheelchair ramps and PCC base for bricks sidewalks at the northeast and northwest sides of the bridge. The contractor placed 10.5 CY of 3500 psi concrete at the locations.
- Concrete was tested for temperature, slump, air content and batch to placement time. One set of six cylinders was cast for compressive strength testing.

#### **Tuesday – 10/20/2020**

- 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 continued the construction of southwest wing wall.
- The contractor continued dewatering the work zone.

#### **Wednesday – 10/21/2020**

- 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 construction of southwest wing wall.
- The contractor continued dewatering the flooded work zone.

**Thursday – 10/22/2020**

- 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 construction of southwest wing wall.
- The contractor continued dewatering the work zone.

**Friday – 10/23/2020**

- 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 completed the repointing of the canal wall located at the north and south abutments.
- The contractor continued the construction of southwest wing wall.
- The contractor continued dewatering the work zone.

**4. PUBLIC OUTREACH**

Public Outreach performed during this period:

- Responded to citizen and business inquiries about schedule and noise restrictions; informed citizens of installation of additional lights on pedestrian bridge

**5. INSPECTION & MATERIAL TESTS PERFORMED**

- Testing concrete placed for ADA-compliant ramps and PCC base for brick sidewalk for temperature, slump, air content and batch to placement time; Cast one set of cylinders for compressive strength testing.

**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 provided responses to DDOT comments.
- Change Order No. 5 to include additional funds for the Pier rehab proposal, using available funds from Item 612 108.

**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.



9. PHOTOS OF WORK PERFORMED THIS PERIOD



Construction of ADA-Compliant Ramps at NE & NW sides of the Bridge



Placement of Concrete for ADA-Compliant Ramp at the NW Corner





Curing of concrete for ADA-Compliant Ramp at the NE Corner



Network: Oct 19, 2020 at 12:47:29 PM EDT

New ADA-Compliant Ramp at the NW Corner





Construction of SW Wing Wall



Construction of SW Wing Wall





Construction of SW Wing Wall



Construction of SW Wing Wall





Construction of SW Wing Wall



Construction of SW Wing Wall (Stone Cutting)





Network: Oct 23, 2020 at 9:55:09 AM EDT  
Construction of SW Wing Wall



Network: Oct 23, 2020 at 11:24:37 AM EDT  
Construction of SW Wing Wall





Repointing of Canal North Wall