



Denver Service Center Transportation Division FY19 Park Direct Charge Authorization (PDC)

Please note: PDC authorization end dates are not to exceed the current fiscal year (FY19)

| | | | |
|----------------|-------|-------------|-----------|
| Park: | PMIS: | Start Date: | End Date: |
| Project Title: | | | |

Description: (if applicable, attach project charter, project agreement or email describing tasks and deliverables)

FY19 PDC FUNDING INFORMATION
 Note: All fields in this section are required to ensure proper tracking of expenditures for this PDC. DSC requires a dedicated WBS account.

| | |
|-------------------------------|-------------------------------|
| Funding Type: | FY19 Authorized Amount: \$ |
| Cost Center: | Functional Area: |
| WBS: | Fund: |
| Park Budget Point of Contact: | Name: Title: Phone: Email: |

COST ESTIMATES/AUTHORIZED EXPENSES**

LABOR COSTS: List all NPS Project Labor including DSC Contracting Staff (if applicable).

| Title/Employee Name | Estimated Hours | Total Cost (per billable rate*) |
|---------------------|-----------------|---------------------------------|
| | | |

**DSC billable rate for employees include base salary plus benefits and overhead
 ** Please attach a copy of your MS Project workload*

| | | |
|---|----------------------------------|---------------|
| CONTRACTS/AWARDS/CONSTRUCTION: | | |
| TRAVEL EXPENSES: | | |
| <i>*Completed travel vouchers for PDC projects are to be provided to park budget POC's by the project manager</i> | | |
| PRINTING: | SUPPLIES & MATERIALS: | OTHER: |
| | | |
| FY19 Authorized Amount: \$ | | |
| PDC APPROVAL SIGNATURES | | |
| <i>*Note: All signatures must be obtained in order for PDC to be in place</i> | | |
| DSC PROJECT MANAGER | Name | Date |
| DSC BRANCH CHIEF | Name | Date |
| DSC CONTRACTING BRANCH CHIEF* | Name | Date |
| PARK APPROVING OFFICIAL TITLE * | Name | Date |
| DSC BUDGET | Name | Date |

* DSC Contracting Branch Chief signature required for any contracting labor or activity.

* Park approving official has authority from the park superintendent to authorize use of funds.

DSC-Transportation budget use only

Funds CCR'd in AFS by park/unit budget

PDC account information added to DSC-Transportation-FY18 accounts list

AFS- Account added to DSC-T-PDC report group and set up to run PSD reports

Quicktime fav key creation request sent to admin for PDC workloaded staff

York River Design Costs 2019.mpp

Mon 11/26/18

| ID | Type | Sub | MS | Task Name | Work | Cost | Duration | Start | Finish | Details | 2018 | 2019 | 2020 | 2021 |
|----|------|------|----|--|----------------|--------------------|------------------|---------------------|---------------------|---------|------|-------------|-------------|-------------|
| 1 | PE | PEDE | | York River Shoreline Design Costs | 832 hrs | \$93,915.70 | 285 days? | Tue 10/23/18 | Wed 12/11/19 | Cost | | \$15,281.02 | \$78,634.68 | |
| 2 | PE | PEDE | | Project Management | 460 hrs | \$58,482.75 | 285 days? | Tue 10/23/18 | Wed 12/11/19 | Cost | | \$9,495.03 | \$48,987.72 | |
| | | | | <i>Devine; Mary</i> | 100 hrs | \$11,997.08 | | Tue 10/23/18 | Wed 12/11/19 | Cost | | \$1,945.96 | \$10,051.12 | |
| | | | | <i>Divelbess; Monica Ann</i> | 56 hrs | \$4,978.42 | | Tue 10/23/18 | Wed 12/11/19 | Cost | | \$807.52 | \$4,170.91 | |
| | | | | <i>Hardin; Lilly</i> | 280 hrs | \$35,308.43 | | Tue 10/23/18 | Wed 12/11/19 | Cost | | \$5,727.14 | \$29,581.29 | |
| | | | | <i>Knapp; Darrin</i> | 24 hrs | \$2,898.82 | | Tue 10/23/18 | Wed 12/11/19 | Cost | | \$470.20 | \$2,428.62 | |
| | | | | <i>NL_Travel</i> | 3,300 | \$3,300.00 | | Tue 10/23/18 | Wed 12/11/19 | Cost | | \$544.21 | \$2,755.79 | |
| 3 | PE | PECO | | Compliance | 180 hrs | \$16,964.16 | 285 days | Tue 10/23/18 | Wed 12/11/19 | Cost | | \$2,769.80 | \$14,194.36 | |
| | | | | <i>GN_NATURAL_RESOURCE_SPECIALIST_GS12</i> | 80 hrs | \$6,702.59 | | Tue 10/23/18 | Wed 12/11/19 | Cost | | \$1,105.34 | \$5,597.25 | |
| | | | | <i>Terzis; Lee A.</i> | 100 hrs | \$10,261.57 | | Tue 10/23/18 | Wed 12/11/19 | Cost | | \$1,664.46 | \$8,597.11 | |
| 4 | PE | PEDE | | Landscape Architecture | 100 hrs | \$7,465.00 | 285 days | Tue 10/23/18 | Wed 12/11/19 | Cost | | \$1,231.07 | \$6,233.93 | |
| | | | | <i>GN_LANDSCAPE_ARCHITECT_GS11</i> | 100 hrs | \$7,465.00 | | Tue 10/23/18 | Wed 12/11/19 | Cost | | \$1,231.07 | \$6,233.93 | |
| 5 | PE | PEDE | | Design Review | 92 hrs | \$11,003.79 | 285 days | Tue 10/23/18 | Wed 12/11/19 | Cost | | \$1,785.12 | \$9,218.67 | |
| | | | | <i>DSC_QA_CE_CIVIL_ENGINEERING</i> | 14 hrs | \$1,770.25 | | Tue 10/23/18 | Wed 12/11/19 | Cost | | \$287.20 | \$1,483.05 | |
| | | | | <i>DSC_QA_CN_CONSTRUCTABILITY</i> | 13 hrs | \$1,447.76 | | Tue 10/23/18 | Wed 12/11/19 | Cost | | \$234.88 | \$1,212.88 | |
| | | | | <i>DSC_QA_EST_ESTIMATING</i> | 15 hrs | \$1,916.11 | | Tue 10/23/18 | Wed 12/11/19 | Cost | | \$310.86 | \$1,605.25 | |
| | | | | <i>Hardin; Lilly</i> | 24 hrs | \$3,026.44 | | Tue 10/23/18 | Wed 12/11/19 | Cost | | \$490.90 | \$2,535.54 | |
| | | | | <i>DSC_QA_LA_LANDSCAPE_ARCHITECTURE</i> | 18 hrs | \$2,003.23 | | Tue 10/23/18 | Wed 12/11/19 | Cost | | \$325.00 | \$1,678.23 | |
| | | | | <i>DSC_QA_PER_PERMITTING</i> | 8 hrs | \$840.01 | | Tue 10/23/18 | Wed 12/11/19 | Cost | | \$136.28 | \$703.73 | |
| 6 | CE | CECM | | Support During Construction | 416 hrs | \$50,663.00 | 342 days | Tue 4/21/20 | Fri 8/27/21 | Cost | | | \$25,888.11 | \$24,774.89 |
| 7 | CE | CECM | | Project Management Support | 416 hrs | \$50,663.00 | 342 days | Tue 4/21/20 | Fri 8/27/21 | Cost | | | \$25,888.11 | \$24,774.89 |
| | | | | <i>Divelbess; Monica Ann</i> | 32 hrs | \$2,939.38 | | Tue 4/21/20 | Fri 8/27/21 | Cost | | | \$1,498.12 | \$1,441.26 |
| | | | | <i>GN_LANDSCAPE_ARCHITECT_GS11</i> | 120 hrs | \$8,958.00 | | Tue 4/21/20 | Fri 8/27/21 | Cost | | | \$4,609.96 | \$4,348.04 |
| | | | | <i>Hardin; Lilly</i> | 240 hrs | \$31,270.44 | | Tue 4/21/20 | Fri 8/27/21 | Cost | | | \$15,937.67 | \$15,332.77 |
| | | | | <i>Knapp; Darrin</i> | 24 hrs | \$2,995.18 | | Tue 4/21/20 | Fri 8/27/21 | Cost | | | \$1,526.56 | \$1,468.62 |
| | | | | <i>NL_Travel</i> | 4,500 | \$4,500.00 | | Tue 4/21/20 | Fri 8/27/21 | Cost | | | \$2,315.79 | \$2,184.21 |

INTER-AGENCY AGREEMENT NO. _____

BETWEEN

DOI, NATIONAL PARK SERVICE – DENVER SERVICE CENTER (DSC)

AND

DOD, US ARMY CORPS OF ENGINEERS – NORFOLK DISTRICT (USACE)

COLONIAL NATIONAL HISTORICAL PARK

RECONSTRUCTION COLONIAL PARKWAY YORK RIVER SHORELINE

SCOPE OF SERVICES

December 20, 2018

BACKGROUND

PROJECT IDENTIFICATION

PMIS Number: COLO 253093

Project Title: Rehabilitate Colonial Parkway York River Shoreline

Project Description

This project will repair and stabilize portions of the York River Shoreline that have been severely eroding over the last 80 years. The project includes the design of construction documents for a combination of shoreline stabilization structures and marsh protection in two reaches of the York River as described below.

Reach 1 extends from Felgates Creek eastward to Indian Field Creek, a distance of about 1.7 miles. It has suffered from back erosion due to wave over wash in large storms. The work will include adding revetment rock to increase the height. Installing new rock sills along the low sand/marsh strand and enhancing or adding marsh habitat. The ultimate goal is to stabilize the shore and enhance beach and marsh fringe habitat. Sheet pile walls or other retaining structures including fill will be designed to flatten the steep slope at K8 near Bellfield Straights to reduce erosion and protect the parkway alignment.

Reach 2 extends from the mouth of Indian Field Creek eastward for about 1.4 miles to the west Pier of the Yorktown Naval Weapons Station. The project includes enhancing existing revetments and breakwaters to accommodate sea level rise. New toe sills and spurs will be built to stabilize and establish marshland, thereby stabilizing the shore. Sheet pile walls or other retaining structures including fill will be designed to flatten the steep slope near K5 northwest of the Yorktown Naval Weapons station to reduce erosion and protect the parkway alignment.

Justification: The Colonial Parkway and the Yorktown Battlefield lie adjacent to the shoreline, and there have been significant areas of erosion that have impacted the park's resources. The Colonial

Parkway connects two of the park's historic sites: Jamestown, the site where the first permanent English settlement began, and Yorktown, the site of the final siege of the American Revolution. The entire park is on the National Register of Historic Places. The Colonial Parkway is also designated as a National Scenic Byway. The park abuts the York River and its small tributaries between Queen and Yorktown Creeks. The entire area is within the southeastern Virginia Coastal Plain and is made up of fossil rich and highly erodible soils. Approximately ten miles of the Parkway runs parallel to the York River, where visitors have sweeping views of the river and shoreline.

Over time, the shoreline has shifted, eroded and receded so that in a number of areas it has come to within 4 feet of the Parkway pavement. There are other areas that are coming dangerously close to the pavement as each major storm takes a little more of the bluff away. There are also portions of the battlefield where revolutionary war fortifications have been removed or are threatened by erosion.

In an effort to understand the long term impacts of shoreline change on the Park, Virginia Institute of Marine Science (VIMS) provided the park with a shoreline assessment and management recommendations. They based their analysis on the key criteria of geomorphology, energy/wave action, wind action the impact of past significant storms and hurricanes. This project will fund the design of various treatment recommendations made in the report. They include a combination of revetments, retaining walls, breakwaters and sills that would stabilize the shoreline and enhance marsh and wetland habitat. An environmental assessment was completed for this work in May of 2012. The EA did not include work to flatten the steep slopes at K5 and K8, but does include installation of sheet pile walls, rock sills and rock revetment rehabilitation. Additional compliance required for the work on the steep slopes will be completed by the National Park Service.

SCOPE

Goods and Services which USACE may provide under this IA, include efforts to stabilize the York River shoreline. The project intent is to stabilize the shoreline and this IA provides funding pre design and design services through December 2019. The project status will be evaluated during that period and funding beyond calendar year 2019 will be done in a separate IA or through modifications to the existing IA if deemed appropriate by the parties. The period of performance begins when the signatory process is complete, anticipated to be December 14, 2018, through December 30, 2019 and such other related goods or services as may be agreed upon in the future.

Nothing in this IA shall be construed to require the DSC to use USACE or to require USACE to provide any goods or services to the DSC, except as may be set forth in this IA.

The DSC Workflows website is available to the USACE for production of deliverables as may be required in conjunction with this IA. This website describes the workflow process from Predesign through DB Construction Documents. Each phase has significant amounts of hypertext that links to definitions, forms, templates, samples, and guidelines. The Workflow Website also provides additional information including applicable definitions, laws, polices, guidelines, design standards, design deliverable content, format requirements, and DSC Technical Bulletins.

In case of conflict between this Interagency Agreement and the DSC DB Workflow Website, this IA shall take precedence. Where task and/or paragraph numbering or other minor differences in format occur between this IA and the DSC DB Workflow Website, the applicable requirements shall be determined using task titles and good judgment.

INTERAGENCY COMMUNICATIONS

To provide for consistent and effective communication between USACE and the DSC, each party shall appoint a Principal Representative to serve as its central point of contact on matters relating to this IA. Additional representatives may also be appointed to serve as points of contact on this IA.

NPS POINTS OF CONTACT

Denver Service Center

Project Technical Point of Contact: Lilly Hardin, 303-987-6670, Lilly_Hardin@nps.gov
Alternate Technical POC: Mary Devine, 303-969-2175, Mary_devine@nps.gov
Contracting Officer: Darin Knapp, 303-969-2055, Darrin_Knapp@nps.gov
Contract Specialist: Monica A. McKensey, 303-987-6766,
monica_mckensey@nps.gov

Colonial National Historical Park

Alternate Technical POC: Dorothy Geyer, 757-898-2433, Dorothy_Geyer@nps.gov
Alternate Technical POC: Timothy McLean, 757-898-2432, Timothy_Mclean@nps.gov

USACE Points of Contact

Project Manager: Andrea Henry, 757-201-7889, andrea.d.henry@usace.army.mil
Chief, IIES Branch: Craig Jones, 757-201-7682, Craig.S.Jones@usace.army.mil

EFFECTIVE DATE

This IA shall become effective when signed by both the NPS and USACE.

PROJECT SUMMARY

SCOPE OF SERVICES

General:

The intent of this agreement is to provide 100% construction drawings and specifications for Reach 1 and Reach 2 of the York River as described above. The final construction documents should build on the 50% design drawings completed by the Norfolk District of the US Army Corp of Engineers May 2013. The design process should include geotechnical investigation, topographic and hydrologic surveys, design documents, and construction permits.

Pre-design:

1. A soils investigation map was developed in a previous agreement. The NPS is completing compliance requirements to facilitate the soil collection. USACE will provide results of the soil investigation and testing as well as recommendations based on those findings.
2. Topographic and hydrological surveys will be completed to verify the location of existing features and facilitate the final design of elements necessary to stabilize the shoreline, mitigate sea level rise, enhance beach and marsh habitat and protect the Parkway
3. Evaluate the existing 50% design to identify what is still relevant given the changed conditions found in the soils investigation and surveys.

Develop 100% final design and construction documents:

4. Develop new 10% design based on current conditions. Include value engineering discussion with NPS to solidify design elements. NPS will provide Landscape architecture recommendations for incorporation into the final design based on these documents. Landscape features including landscaping of the steep slope areas must consider the contribution elements as determined by the 1997 Colonial Parkway Cultural Landscape Report.
5. Provide 35% design documents including draft specifications and updated construction cost estimate for NPS review. These documents will be used to begin the additional tasks required to finalize, NEPA, and section 106 compliance.
6. Provide 65% design documents including revised project specifications and updated construction cost estimate for NPS review. The 65% design should incorporate landscape features identified by NPS and comments from the 35% design review. These documents will be used to finalize compliance tasks.
7. Conduct an independent technical review prior to completing 100% design and construction documents. The independent technical review should include a constructability analysis.
8. Provide 100% for construction drawings, specifications and cost estimate incorporating comments from the 65% design review and the independent technical review.
9. Conduct Bidability, Constructability, Operability, Environmental, and Sustainability (BCOES) review following completion of 100% construction documents.
10. Construction permitting should be accomplished at various stages throughout the design process and completed with the 100% construction documents.

Project Management, Administrative Support:

Provide Project Management services, Project Management Plan (PMP), and manage schedule, budget and scope.

| Table 1.0 Schedule of Deliverables | | Start Date | Submittal Date |
|---|---|--|-----------------------|
| Soil Investigation | | January 2019 | March 2019 |
| Surveys | | January 2019 | March 2019 |
| Review of 50% design | | March 2019 | May 2019 |
| New 10% design | | May 2019 | June 2019 |
| 35% design | | June 2019 | August 2019 |
| 65% design | | August 2019 | October 2019 |
| 100% design | | October 2019 | December 2019 |
| Submittal Addresses | DSC: NPS-DSCT c/o Mary Devine, Project Specialist 12795 West Alameda Pkwy Denver, CO 80225-0287 (303) 969-2415 | COLO: Colonial National Historical Park c/o Dorothy Geyer P.O. Box 210 Yorktown, VA 23690 (757) 898-2432 | |
| Notes | <ol style="list-style-type: none"> 1. Electronic Files Submitted on CD-ROMs shall include both a print ready Adobe PDF format and the native file format (i.e. MS Word, MS Excel, AutoCAD, etc.) 2. Additional submittal format requirements (both hardcopy and electronic) can be found at: http://workflow.den.nps.gov/staging/6_Design/Del_Submittalform.html#_Hard-Copy_Document_Submittal_Format 3. NPS reserves the right to request electronic submittals via e-mail and/or through the DSC ftp site, as noted in this IA, and occasionally throughout the project. 4. NPS performs back checks on all final submittals to ensure that earlier comments have been properly resolved. If the submittal fails this back check, an additional submittal may be required (at no additional cost to the Government). | | |

SCHEDULE

The work of these tasks shall be completed in accordance with the proposed schedule shown in the table 1 above.

Final schedule and table of deliverables will be agreed to by all parties as part of the Project Management Task. The schedule may be revised based on findings or issues identified as the project progresses. An initial schedule shall be established no later than January 15, 2019.

FUNDING

Funding provided under this IA is \$668,500 for calendar year 2019 does not expire; however, USACE will be completed with the effort no later than December 30, 2019. USACE will be required to submit a periodic expenditure report to the NPS so the NPS can update the obligation status in the NPS accounting system. The period of performance begins when the signatory process is complete, anticipated to be December 14, 2018, through December 30, 2019.

December 14, 2018 through December 30, 2019

\$668,500

PERFORMANCE PERIOD

December 14, 2018 through December 30, 2019.