

Project Location: CULPEPER NATIONAL CEMETERY

Project Title: Replace Concrete and Asphalt, Underdrain, and other repairs

Project Control #: 839-NRM17-05

Statement of Work Summary:

Contractor shall furnish all tools, labor, materials, equipment, services, and professional design services to perform work described below, in other specification sections, and on the drawings at Culpeper National Cemetery as required by the work scope, specifications, and drawings.

A. General

1. Contractor is strongly encouraged to survey the project area prior to bidding to adequately understand the full scope of work and all requirements. Contractor is required to submit any questions or clarifications prior to bid. A bid submitted will be taken as agreement that the work shall be performed to meet the requirements herein based on the existing conditions in the field.
2. This numbered requirement only applies to work items specifically noted as DESIGN BUILD ELEMENTS below. The contractor shall engage the services of a professional design firm which specializes in the work contained in this project. Contractor shall submit this firm for approval complete with qualifications prior to the start of construction. Contractor and this professional design firm shall submit design drawings. Design drawings shall be: scaled drawings, Final construction documents, stamped and sealed by a professional engineer in the state where the work is to take place, submitted full size (30x42") and in electronic format (pdf) to both the Project Engineer and the Cemetery Director.
3. This numbered requirement only applies to work items specifically noted as DESIGN BUILD ELEMENTS below. Where a work item is noted as a DESIGN BUILD ELEMENT a professional engineer's review shall be performed prior to submission. Prior to submission to the COR, contractor shall have all submittals reviewed, signed and sealed by a professional engineer in the state where work is to take place, and stamped approved by this professional design firm.

4. The contractor shall submit submittals including shop drawings and any other specification requirements to the COR for review and approval prior to fabrication/installation. Submittals approved by the owner (VA/NCA) are required prior to starting on the corresponding work.

B. Specific work items:

1. Concrete demolition and replacement (historical side drive and walkway to flagpole area). Reference drawing 839-NRM17-05-001 for more information and clarity. Demolish existing concrete slab roadway and walkways, including subbase. Install new concrete slab roadway in same location per drawing 839-NRM17-05-001 detail 4R. Demolish earth and install new concrete slab roadway extension area for the newly extended parking spaces shown on drawing 839-NRM17-05-002 detail 6. Paint these parking spaces using a line striping paint. Install new concrete sidewalk in same locations per drawing 839-NRM17-05-001 detail 4S. Excavate for and compact aggregate for the subbase for this new concrete slab. Concrete is to be 4.5-7.5% air entrained, 4000psi, slump of 3-5", and reinforced with wire mesh as shown on the plans. Reinforcing should be a minimum of 1" from any edge of concrete either vertical or horizontal, and a maximum of 2" from any horizontal edge of concrete. Slope slab at 1:12 to provide gravity drainage as discussed on drawings.
2. Concrete demolition and replacement (historical side near maintenance building). Reference drawing 839-NRM17-05-003 details 1 and 2 for more information and clarity. Demolish existing concrete slab roadway, including subbase. Install new concrete slab roadway in same locations per drawing 839-NRM17-05-001 detail 4R. Excavate for and compact aggregate for the subbase for this new concrete slab. Concrete is to be 4.5-7.5% air entrained, 4000psi, slump of 3-5", and reinforced with wire mesh as shown on the plans. Reinforcing should be a minimum of 1" from any edge of concrete either vertical or horizontal, and a maximum of 2" from any horizontal edge of concrete. Slope slab at 1:12 to provide gravity drainage to match existing. Provide expansion joint at existing drain inlets.

3. Asphalt repairs (historical side): Reference drawing 839-NRM17-05-001 for more information and clarity. Demolish all existing asphalt, subbase, coatings, geogrid reinforcement necessary, and any subgrade as necessary to prepare site for new asphalt and subbase installed over the subgrade as shown on drawing 839-NRM17-05-001, detail 5. Assume for demolition bidding purposes that the existing asphalt is 8" in depth and the subbase is 8" in depth (typical all asphalt locations this project). Due to the risk of buried remains, contractor shall not excavate to a depth beyond 18" at any point for any work in this area. Prepare subgrade for new work. Coordinate with COR during this excavation work due to this specific risk. Demolition shall prepare depth such that new asphalt finished grade matches existing grade. Demolish existing stone curbing along inside of asphalt circular drive. Install new asphalt to replace existing per detail above. Install new curbing along the inside and outside of this new asphalt circular drive as shown on the drawings. New mountable curb shall be per drawing detail. New standard curb along inside of the circular drive shall be 6" wide at top, 8" wide at bottom, and 21" tall. Expose 5" of the curb above new asphalt paving elevation, thus burying 16" of curb into the earth. Curb shall have a #4 rebar continuous along the top and bottom of the curb. Concrete is to be 4.5-7.5% air entrained, 4000psi, slump of 3-5". Reinforcing should be a minimum of 1.5" from any edge of concrete either vertical or horizontal. Submit detail for this new standard curb. Control joints shall be provided with 1/2" expansion joints and polyurethane caulking. Space expansion joints no greater than 10'.

3A. Demolish the pea gravel, stone curbing (or edging), and mulch from the area inside the asphalt circular roadway. Contractor shall perform this work with care due to the fact that this area is an existing burial area. Contractor shall protect existing burial monuments at all times, which are to remain in place during work. Coordinate this work with the COR due to the presence of this burial area. Contractor shall at no point excavate deeper than 18" due to the presence of this burial area. New landscaping to be installed includes topsoil and sod. See drawings and specifications for more information.

4. Replace flagpole lighting (historical side). See detail 1, drawing 839-NRM17-05-002. Demolish existing floodlight fixture and replace with new LED floodlight fixture. Four (4) locations. Reuse existing foundation and steel base and cabling/conduit. Install new photocell to control all four (4) new LED fixtures such that they only illuminate during night. New LED fixtures shall be minimum: 75W, 6000 Lumens, and capable of illuminating the flagpole at the site given a flagpole height of 60'.

5. Replace flagpole lighting (new side). See detail 2, drawing 839-NRM17-05-002. Detail 2: Demolish existing floodlight fixture and replace with new LED floodlight fixture. Three (3) locations. Install new 2'x2'x6" thick concrete foundation for the new fixture. Foundation shall be 2" above finished grade. Concrete to be 4000 psi, 4.5-7.5% air entrained, slump of 3-5". Install new photocell to control all three (3) new LED fixtures such that they only illuminate during night.

6. Strip paint and repaint flagpole (historical side). Assume for bidding purposes that the existing flagpole is 60' in height. Chip away existing mortar and remortar base. Slope new mortar outward away from flagpole to the mulch bed. **DESIGN BUILD ELEMENT:** Provide professional design service to select proper method of paint stripping, surface preparation, and to select the paint system to be used. Strip paint from existing flagpole, prep surface, and install new paint to match existing color. Minimum paint system is to be compliant with specification section 099100 and be suitable for marine applications underwater.

Reference drawing 839-NRM17-05-002, details 4 and 5.

7. Carefully remove entire existing walled brick walkway and stairway and reinstall existing bricks with new type S mortar. Excavate and compact a new 6" subbase of aggregate under all brick rework. Due to the risk of buried remains, contractor shall not excavate to a depth beyond 18" at any point for any work in this area. Coordinate with COR during this excavation work due to this specific risk. If new bricks are required, new bricks must match existing in color and size. Note this is a historical renovation. See detail 3, drawing 839-NRM17-05-002

8. DESIGN BUILD ELEMENT: Provide professional design service to design and install a replacement underdrain system as shown on drawing 839-NRM17-05-003 details 1, 3, 3C, and 4. Demolish existing inlet, corrugated underdrain, and remove/patch road as necessary for this work. New road work shall match new work details shown on drawings and in specifications. New underdrain work shall provide a drain inlet with a minimum 24"x24" wide by 42" high (at exterior) precast concrete inlet with 3" deep steel grate. New inlet system shall meet traffic rating. New inlet shall be installed on a minimum 6" crushed stone base.

Connect new drain inlet to the 8" solid PVC pipe underdrain and system. Install new minimum 8" solid schedule 80 PVC pipe underdrain system from this new drain inlet across road and through the earth to a precast concrete headwall which shall dump into the creek approximately 120 linear feet away. Design an outlet to include a precast concrete headwall with minimum dimensions: 2' wide, 18" tall, and 6" thick. Design system to route around trees/roots as necessary, and gravity drain to a new precast concrete headwall at the creek. Restore disturbed area to existing.

SECTIONS:

01 00 02	General Requirements
01 33 23	Shop Drawings, Product Data, and Samples
01 42 19	Reference standards
01 45 29	Testing Lab Services
01 57 19	Temporary environmental controls
01 74 19	Construction waste management
02 41 10	Demolition and Site Clearing
03 30 00	Cast-In-Place Concrete
04 05 13	Masonry Mortaring
04 05 31	Masonry Tuckpointing
04 20 00	Unit Masonry
09 91 00	Painting
26 05 11	Requirements for Electrical Installations
26 56 00	Exterior Lighting
31 20 11	Earth moving (short form)
32 12 16	Asphalt Paving
32 90 00	Planting
33 46 13	Storm Sewer, Facility and Foundation Drainage

DRAWINGS:

839-NRM17-05-001
839-NRM17-05-002
839-NRM17-05-003

Pre-Bid Site Visit: Bidders are strongly urged to inspect, site investigate by observation, and Request for Information (RFI) and responses through the Contracting Office to satisfy their understanding of the work to be done, all general, local and technical conditions that may affect the cost and the feasibility of their proposal. In no event shall failure to inspect the site constitute grounds for a claim after award. Visitors planning to conduct a site visit shall contact the Cemetery Director or Foreman to make arrangements:

Cemetery POC(s):

Lance Pridemore, Culpeper Cemetery Director..... 540-825-0027 or
Lance.Pridemore@va.gov

Technical POC:

Rico Silveti, North Atlantic District (NAD) Engineer..... (215) 381-3787 x4050 or
rico.silveti@va.gov

PRICE SCHEDULE

DESCRIPTION	QTY	UNIT	TOTAL PRICE
Contractor shall provide all labor, tools, materials, equipment, and supervision necessary to perform all work detailed above, in specifications, and drawings at the Culpeper National Cemetery.	1	JOB	\$ _____

Duration: Term of the contract shall be one hundred and eighty days (180 days) from date of award. The Contractor shall complete all work within 180 calendar days after receipt of Notice of Award, subject to all terms, conditions, provisions and schedules of the contract. Contractor shall perform work in the spring after evening temperatures are sustained above freezing.

(END OF PRICE SCHEDULE)

3/13/2017

X Rico Silvetti

Rico Silvetti

Project Engineer

Signed by: RICO J SILVETTI 383641