

ELECTRICAL CONDUIT PROJECT

ELECTRICAL CONDUIT FOR
WELCOME CENTER LIGHTS &
FUTURE ELECTRIC VEHICLE CHARGING STATIONS
Arlington National Cemetery
Arlington, Virginia

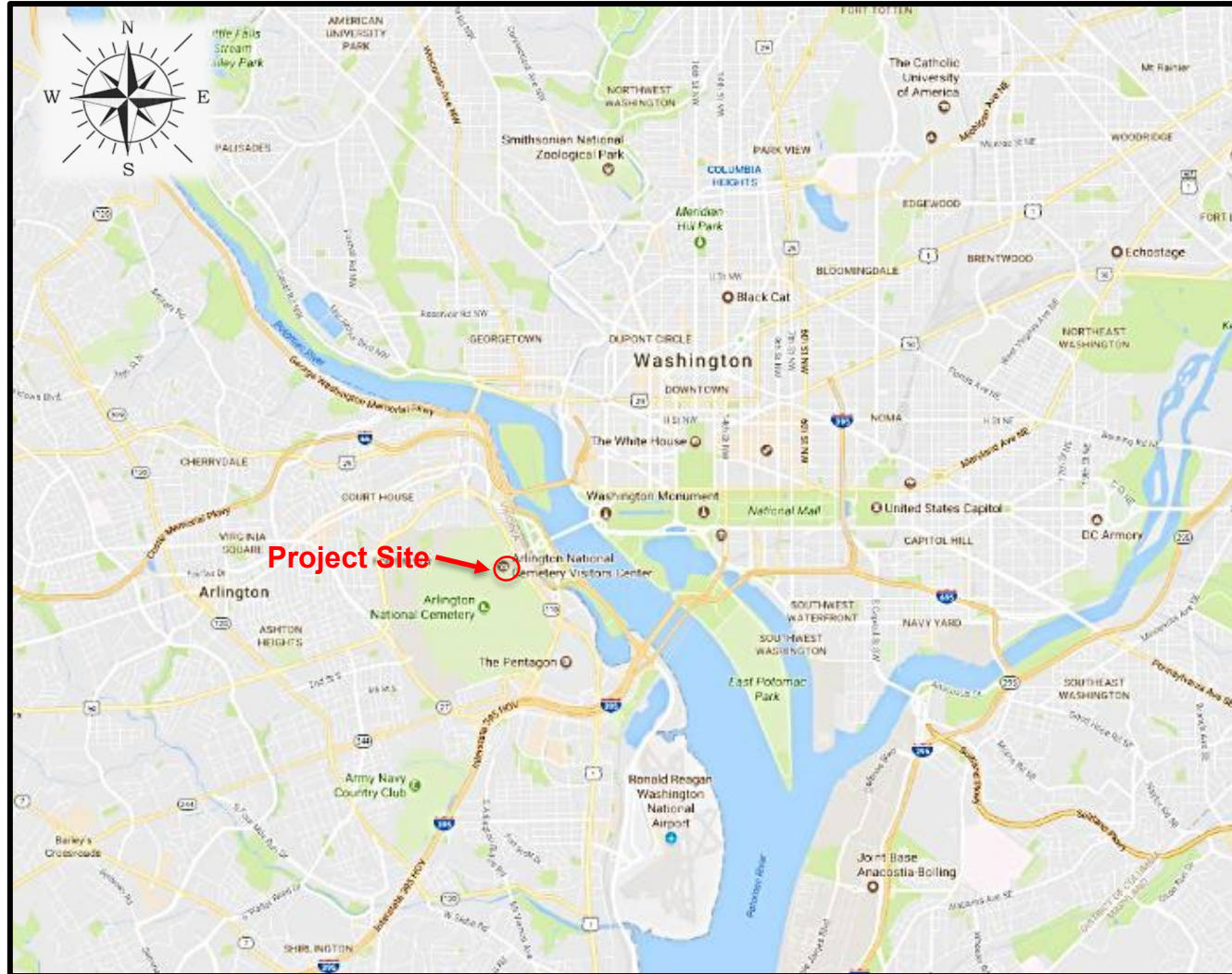
PROJECT DESCRIPTION, AREA OF POTENTIAL
EFFECTS, and ASSESSMENT OF EFFECTS

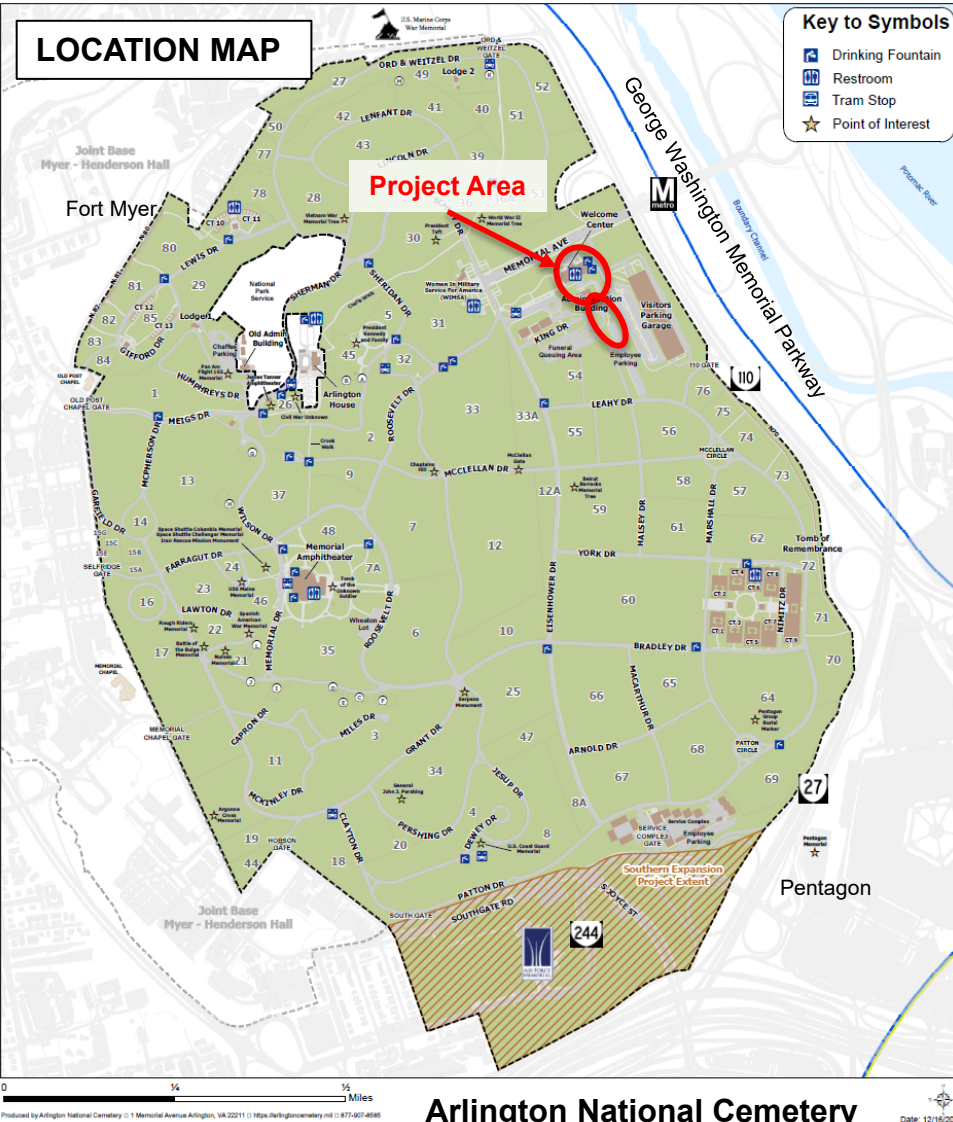
ANC Project Point of Contact:

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Caitlin Smith
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July 18, 2022





PROJECT DESCRIPTION

Arlington National Cemetery (ANC), ANC proposes hiring Dominion Electric to install electrical conduit that will supply power to the existing Welcome Center gate light fixtures and proposed future electrical vehicle (EV) charging stations. The design and precise location of the proposed EV charging stations will be a separate project.

The work involves in ground boring, the installation of conduit runs, CT boxes, electrical meters, junction boxes, and electrical boxes. The work concentrates in three areas:

1. Welcome Center north plaza, around the two gate light fixtures.
2. Executive Staff Parking Lot, between the south elevation of the Welcome Center and the north elevation of the Administration Building.
3. Employee Parking Lot, at the northeastern end of the lot, adjacent to the Government Vehicle Parking area and west of the Visitor Bus Parking Lot

AREA OF POTENTIAL EFFECTS

Area of Potential Effects:

The Area of Potential Effects (APE) for the proposed project is shown on the map to the left as a yellow oval. The APE includes locations where the project may be visible and/or audible. The project involves ground disturbing activities in previously disturbed areas.

The project area is located in Arlington National Cemetery Historic District (Virginia Department of Historic Resources [VDHR] #000-0042).

Historic Properties Located Within the APE:

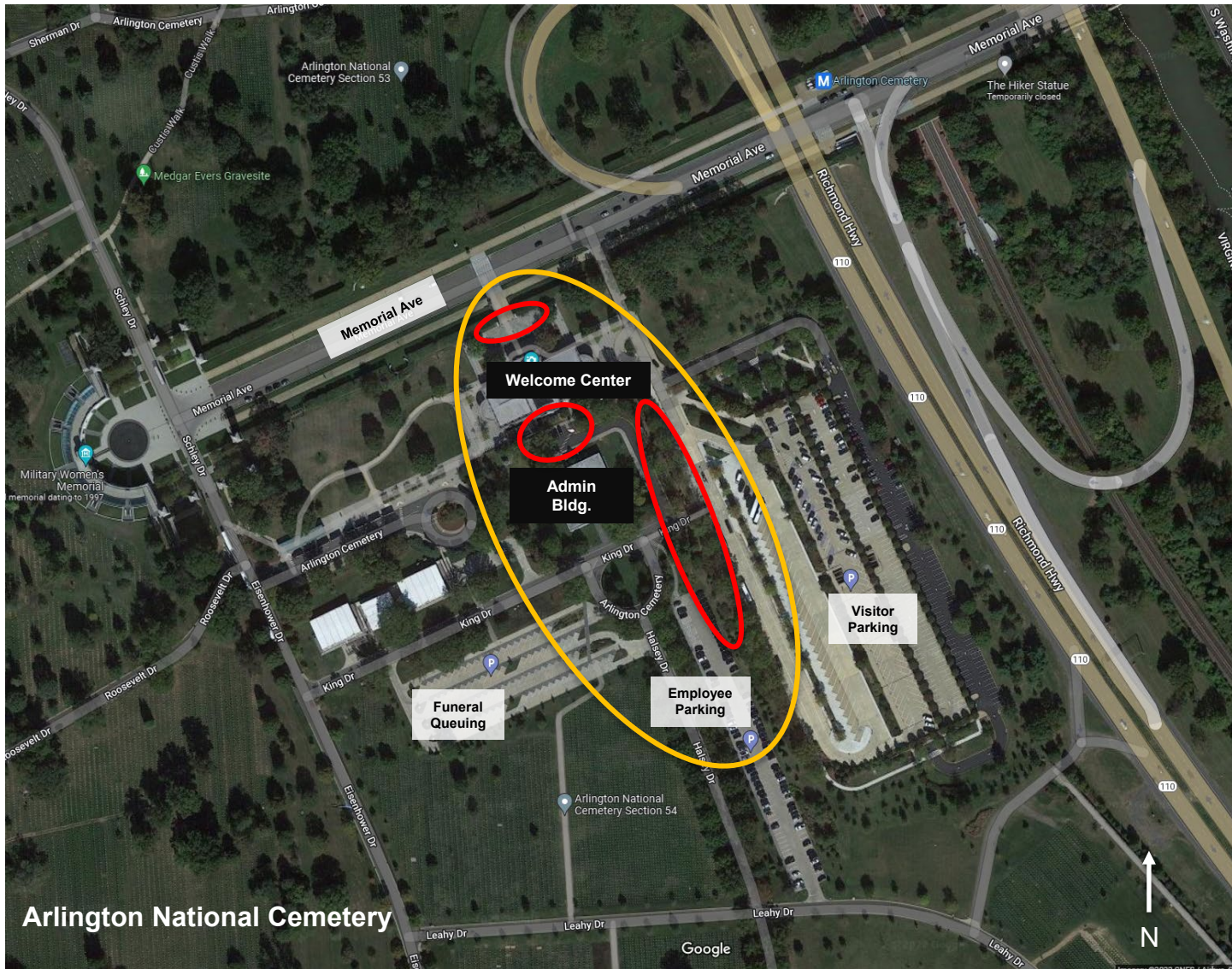
Following is a list of historic structures and features contributing to Arlington National Cemetery's and Arlington House's historic districts, which are located within/adjacent to the APE.

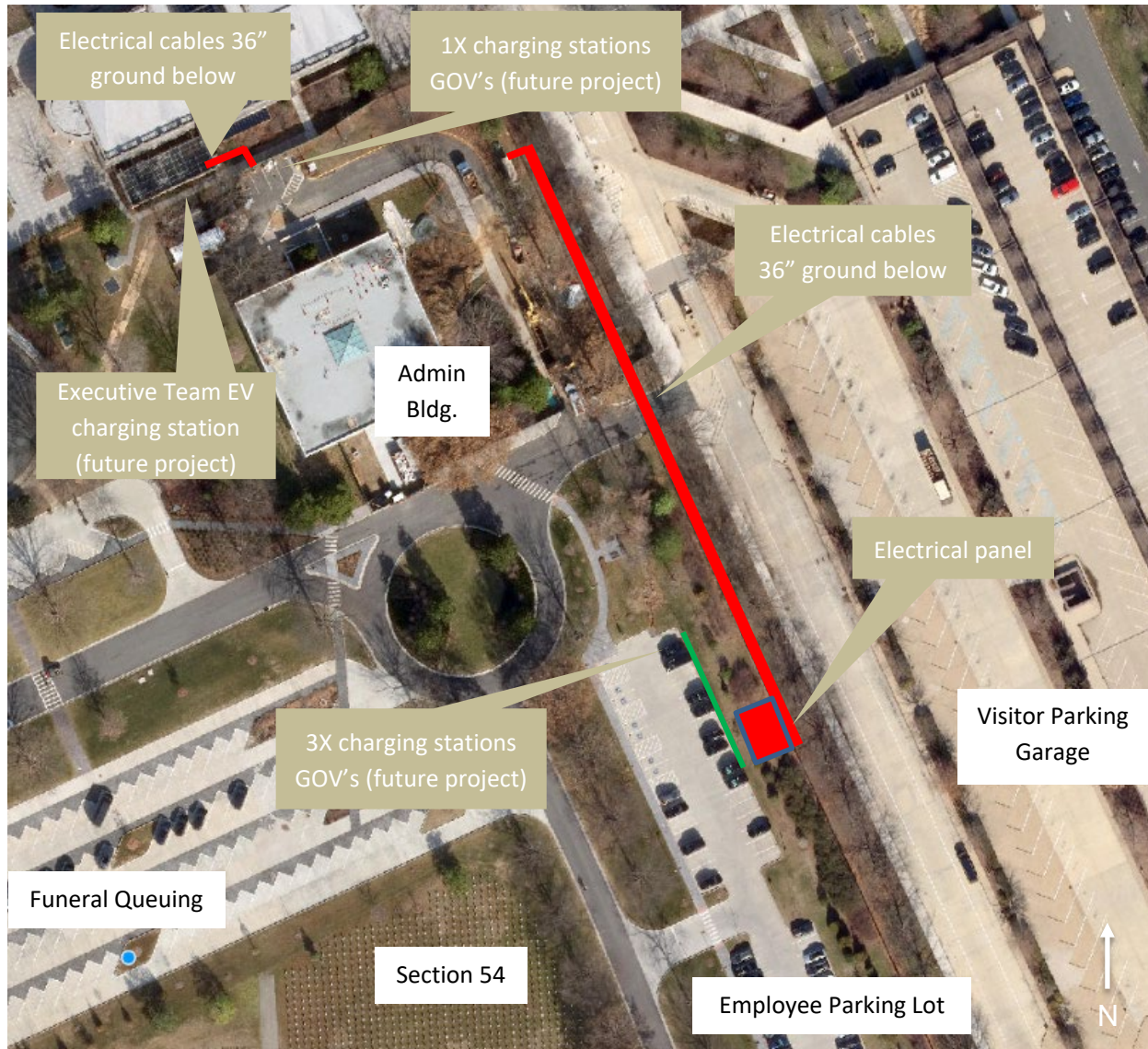
- Arlington National Cemetery Historic District (DHR #000-0042)
- Administration Building (DHR ID#: 000-0042-0007)
- Headstones and Grave Markers (DHR #000-0042-0021)
- Burial Section 54

Satellite View of Project Area.

APE outlined in yellow.

Proposed project location in red.






Project Narrative:

Dominion Electric shall bore and install two 6" conduit runs. The two conduit runs shall be used for the installation of power cables. Dominion shall install two additional 6" conduits, which are to be spares for future expansions. The conduit run is approximately 480 feet long.

Dominion shall install the necessary cables to supply 600A, the cables shall terminate inside a CT Box. They shall install a junction box mid-conduit run. The junction box shall be waterproof and installed on the grass. The box shall be green in color and big enough to accommodate the load cables. Dominion shall also install an electrical meter.

Dominion shall bore and install a 4" conduit from the corner of the HVAC enclosure adjacent to the Welcome Center to the Welcome Center executive parking area. The distance is approximately 100 feet. Contractor shall excavate a 16" x 32" square and back fill with concrete. The concrete shall be at least 24" deep. The conduit shall be installed in the center of the 16" x 32" concrete square and be capped. Concrete shall be terminated flush with the asphalt surface.



Electrical cables 36" to
48" below ground below

Welcome Center

Project Narrative continued:

Dominion shall bore and install a 1.5" conduit from the base of the light post located on the West side of the Welcome Center towards the light located on the East side of the Welcome Center. The approximate distance between the two points is approximately 213 linear feet.

Dominion shall install an in-ground junction box near the base of the West light post and shall bring the conduit into the base of the lights.

Depth of ground disturbance expected to be 36-48" deep, and bored holes expected to be around 3" wide to accommodate 1-1/2" conduit.

The electrical box adjacent to the employee parking lot is expected to be around 3' x 4' and green in color, similar to existing electrical boxes along the fence line that separates the employee lot from the visitor parking garage. This will sit atop a small hill and be surrounded by plantings (i.e., trees and shrubs).

DETERMINATION OF EFFECTS

I assessed the effects of the proposed project. Applying the criteria of adverse effects (36 C.F.R. § 800.5[a][1]), I determined the undertaking will have **no adverse effect** on the characteristics which qualify Arlington National Cemetery historic district for inclusion on the National Register of Historic Places.

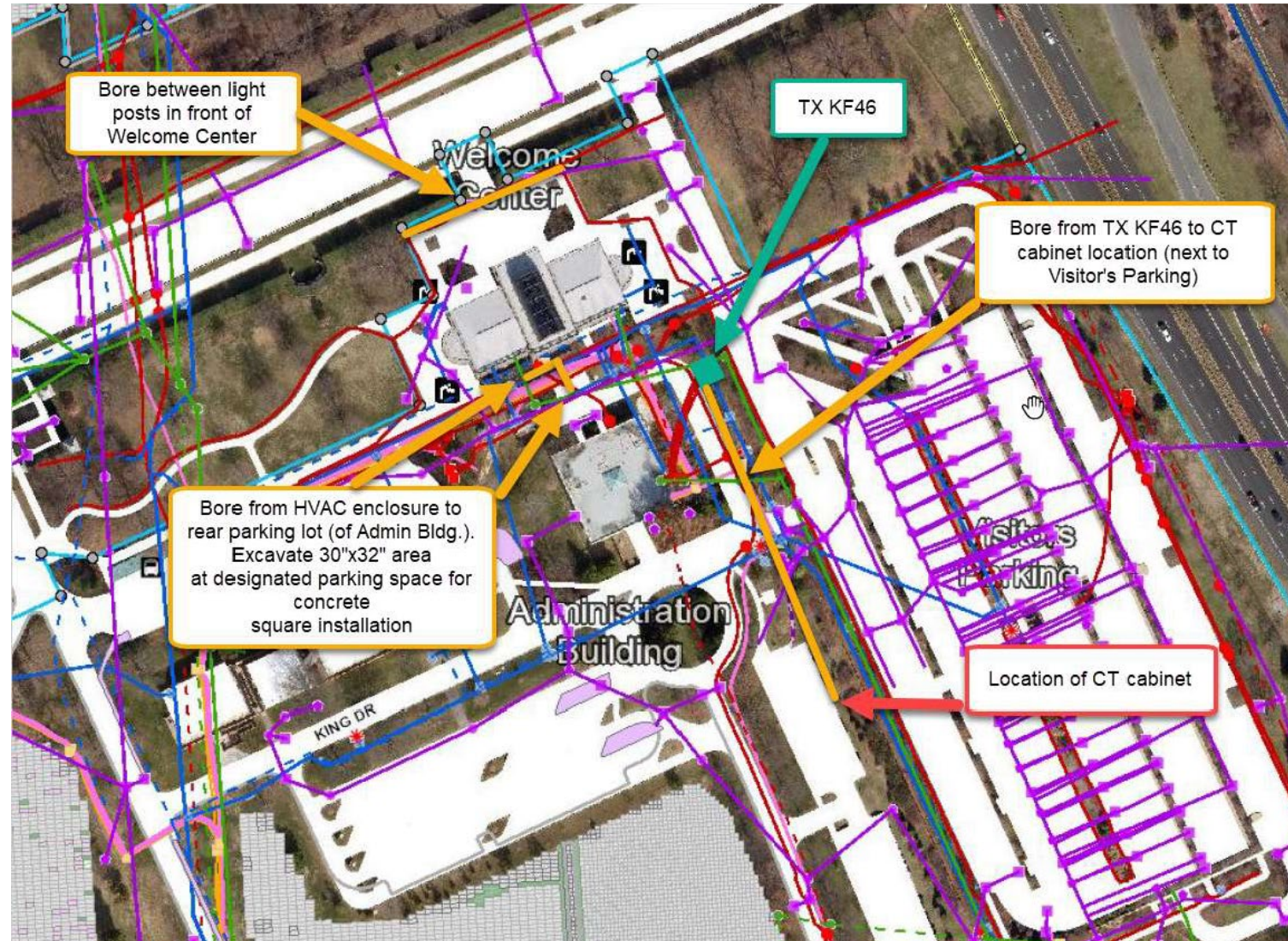
ANC retains the historic views and vistas within the cemetery after construction of the proposed project. The historic location and elements within the districts are maintained. There are no permanent or irreversible changes to historic properties. Headstones and circulation patterns remain unchanged. The cemetery continues to convey its historic significance as a military cemetery, and for its landscape architecture and architecture. There are no changes to the integrity of location, workmanship, feeling or associations of ANC's National Register district.

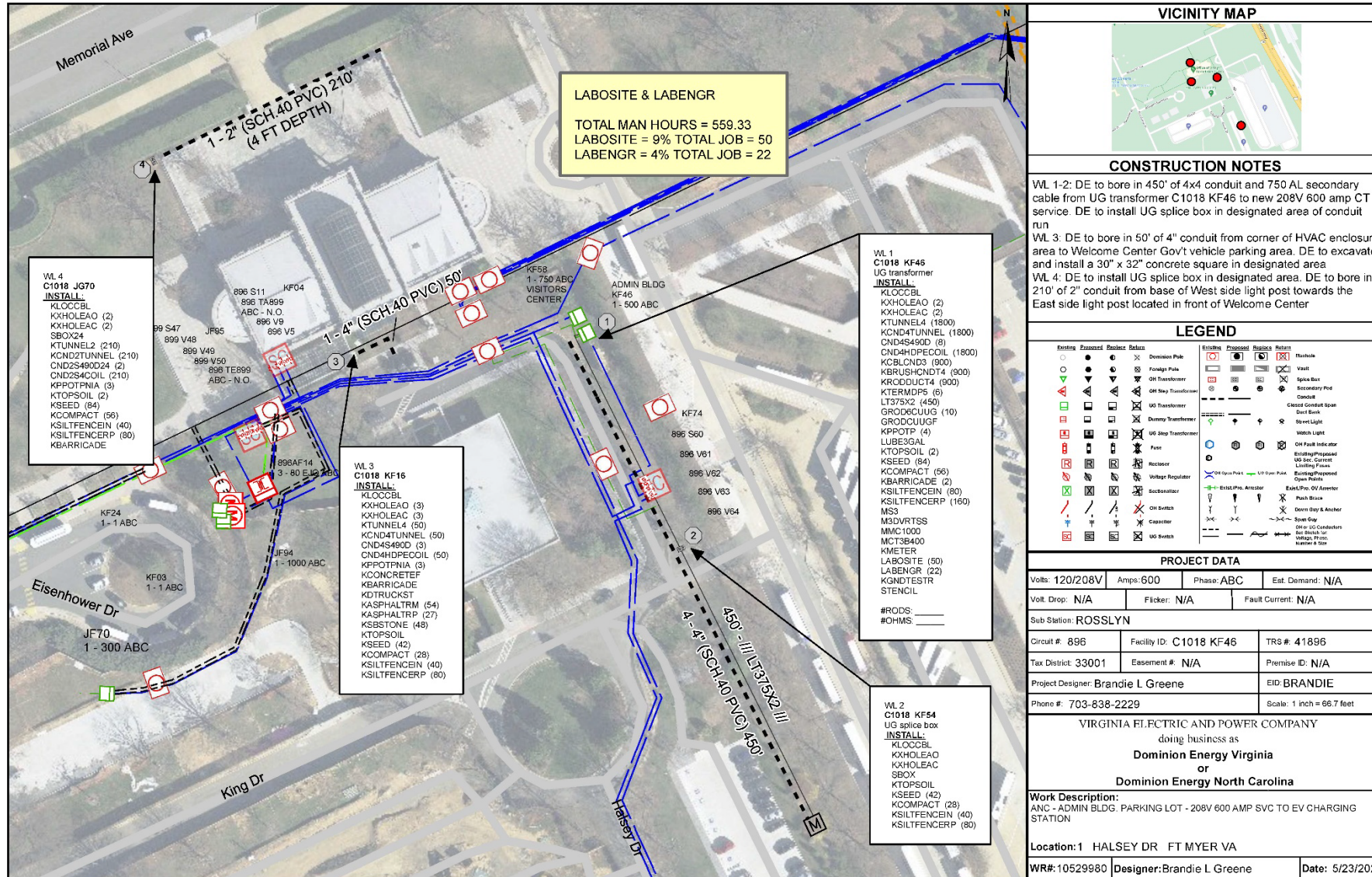
The proposed conduit lines are not visible above ground. However, the utility boxes will be visible from the Administration Building and Section 54. The utility boxes will be painted green to blend with the surrounding landscape, and plantings will further camouflage the boxes. These utility boxes may be more apparent during winter months when leaves fall from surrounding trees and other plants are not in bloom. However, this change has no effect on the character of the historic district.

The proposed undertaking would have **no adverse effect to archaeological resources**. All construction would be in areas of the APE that have been severely disturbed through prior development of the cemetery or adjacent infrastructure (reference "Archaeological Potential & Past Ground Disturbance Map from Attachment D, Application of National Register of Historic Places Criteria"). It is not expected that undiscovered cultural resources would be found during implementation of the undertaking. However, in the event of an unanticipated discovery during ground-disturbing activities, all work would cease, and the ANC Cultural Resources Manager (CRM) would be contacted. The CRM would immediately notify the Virginia Department of Historic Resources and other appropriate agencies, and standard procedures would be followed to protect the artifacts and determine their significance.

All work adheres to the Secretary of the Interior's Standards for the Treatment of Historic Properties. The project team selected materials and sited the utilities in a manner to avoid and minimize effects. I find the design avoids and/ or minimizes the direct, indirect, and cumulative effects to above- and below-ground historic properties and contributing elements in the Arlington National Cemetery and Arlington House districts.

Caitlin Smith, AIC PA
Cultural Resources Manager
Arlington National Cemetery







Welcome Center north plaza, looking northeast towards the two light posts. The boundary of the proposed project area is outlined in **red**. Shows location where conduit will be run underground. Once the work completes, there will be no visible impact to Memorial Avenue. The site, including all granite masonry and pavers, will be returned to as-found conditions. (U.S. Army photo by Caitlin Smith / Arlington National Cemetery)

VIEWS OF EXISTING CONDITIONS



Welcome Center south executive parking area, looking northwest towards the HVAC enclosure adjacent to the Welcome Center. The boundary of the proposed project area is outlined in **red**. Shows location where conduit will be run underground. (U.S. Army photo by Caitlin Smith / Arlington National Cemetery)

VIEWS OF EXISTING CONDITIONS



View looking east from the Welcome Center south executive parking area toward the visitor parking area. The boundary of the proposed project area is outlined in **red**. Shows location where conduit will be run underground. Note the existing green electrical boxes.
(U.S. Army photo by Caitlin Smith / Arlington National Cemetery)



View looking north from King Drive toward the Administration Building and the Welcome Center. The visitor parking area is to the east (right). The boundary of the proposed project area is outlined in **red**. Shows location where conduit will run underground. (U.S. Army photo by Caitlin Smith / Arlington National Cemetery)



View looking southeast from the Administration Building toward the employee parking area. The visitor parking area is to the east (left). The proposed project area is outlined in **red**. Shows location where conduit will run underground. Note the existing green electrical box. (U.S. Army photo by Caitlin Smith / Arlington National Cemetery)

VIEWS OF EXISTING CONDITIONS



View of two existing green electrical boxes near the proposed project area. Both views looking northeast toward the visitor parking area. Administration Building off to the immediate west (left side of each image). The boundary of the proposed project area is outlined in red. Shows location where conduit will run underground.
(U.S. Army photo by Caitlin Smith / Arlington National Cemetery)

VIEWS OF EXISTING CONDITIONS



View of employee parking area, looking toward the southeast (left) and toward the northeast (right). Note view of green electrical box, Administration Building, and visitor parking area both obscured by plantings. to the immediate west (left side of each image). The boundary of the proposed project area is outlined in red. Shows location where conduit will run underground. (U.S. Army photo by Caitlin Smith / Arlington National Cemetery)

VIEWS OF EXISTING CONDITIONS



View of employee parking area, looking east toward the visitor parking area. Note hillside where one of the green electrical boxes will be located, and the existing plantings in the proposed project area. The boundary of the proposed project area is outlined in red. Shows location where conduit will run underground and location of electrical box. (U.S. Army photo by Caitlin Smith / Arlington National Cemetery)



View of hillside where conduit and electrical box will be located in the employee parking area, looking toward the southeast (left) and toward the northeast (right). Note hillside with existing plantings in the proposed project area. The boundary of the proposed project area is outlined in red. Shows location where conduit will run underground and location of electrical box. (U.S. Army photo by Caitlin Smith / Arlington National Cemetery)

VIEWS OF EXISTING CONDITIONS



View from Section 54 looking northeast toward the employee parking area. Note that the visitor parking area is not visible past the hillside and plantings. The boundary of the proposed project area is outlined in red. Shows location where conduit will run underground.
(U.S. Army photo by Caitlin Smith / Arlington National Cemetery)