

1. SCOPE OF WORK

The Culvert Replacement on Kalmia Road over Rock Creek Tributary, West Beach Drive to East Beach Drive (Culvert 103C) is a part of a package that also includes Reconstruction of 16th Street Bridge over Military Road, N.W. and Median Barrier & Streetlight Improvements on Military Road & Ramps (Bridge No. 209) and the work on the two structures is bid as one project.

The work is divided in two parts, Part I and Part II:

Part I – Culvert Replacement on Kalmia Road over Rock Creek Tributary, West Beach Drive to East Beach Drive

Part II – Reconstruction of 16th Street Bridge over Military Road, N. W. and Median Barrier & Streetlight Improvements on Military Road & Ramps

Reconstruction of 16th Street Bridge over Military Road, N. W. and Median Barrier & Streetlight Improvements on Military Road & Ramps shall not commence until the work on the Culvert Replacement on Kalmia Road over Rock Creek Tributary, West Beach Drive to East Beach Drive is completed in its entirety.

Work under the Culvert Replacement on Kalmia Road over Rock Creek Tributary, West Beach Drive to East Beach Drive, is shown on project plans and indicated in specifications and special provisions. All work on culvert and roadways shall be performed within existing right-of-way or by permit.

Work under the Reconstruction of 16th Street Bridge over Military Road, N. W. and Median Barrier & Streetlight Improvements on Military Road & Ramps includes work on Ramps A, B, C, & D, and Military Road from Oregon Avenue to 14th Street as shown on project plans and indicated in specifications and special provisions. All work on bridge and roadways shall be performed within existing right-of-way.

The work shall include mobilization and demobilization, performance of field layout, employee training, provision and maintenance of work and storage areas, Engineer's field facilities, and the proper maintenance of vehicular and pedestrian traffic including temporary signage for pedestrians during all phases of construction. The location of the Engineer's field facilities shall be within one mile of the Intersection of Military Road and 16th Street for the contract including Part I and Part II work.

A. CULVERT REPLACEMENT ON KALMIA ROAD, NW (PART I)

The work includes, but is not limited to, the following items:

1. Coordination with utility companies and maintenance of specific utility services:
 - a. Coordination with DC Water regarding to Contractor activities for maintaining continuous water service and for the replacement of a 12” water line;
 - b. Coordination with Washington Gas regarding Contractor activities. Washington Gas will cut and cap gas lines and re-install/connect at appropriate time;
2. Design, construction, maintenance and removal of temporary utility support systems and protection shields;
3. Coordination with NPS and adjacent projects;
4. Implementation, monitoring and maintenance of vehicular and pedestrian traffic for the duration of the construction period, installation and maintenance of temporary traffic signs (including pedestrian), barricades and other transition devices; reconfiguring the devices in conjunction with changes in work area; and their removal and disposal upon project completion;
5. Implementation of sediment and erosion control measures;
6. Design and installation, maintenance and removal of a Temporary Pedestrian Access;
7. Clearing and grubbing;
8. Removal of existing pavement and sidewalk;
9. Removal of existing abandoned utilities within the excavation limits;
10. Excavation including the design and installation and removal of temporary supports for excavation;
11. Demolition (including removal) of the entire existing culvert structure and wingwalls;
12. Construction of new precast culvert, headwalls and wingwalls;
13. Construction of cast-in-place concrete wingwalls and barrier wall and fencing;
14. Placing riprap;
15. Modifying existing storm sewer;
16. Construction of new storm drains and inlets;
17. Construction of ADA ramps;
18. Performing cut and fill operations and grade the slopes in the designated areas to the slopes and grades shown;
19. Construction of new pavement and milling and overlay;
20. Site restoration and landscaping.

In addition to the above, any incidental items of work necessary for a complete and finished product is included as part of this contract.

The Contractor shall produce design calculations and shop drawings in connection with his or her chosen system for temporary support structures or devices, protection shields, and other significant temporary work affecting the safety of the traveling public or workers on the project.

The Contractor shall be fully responsible for protection against damage for the duration of the contract of all the utility structures within the contract limits and adjacent thereto. The utilities include but are not limited to public and/or private water, sewer, electricity, gas, electric and communication lines. No separate measurement or payment will be made. Cost of this protective work will be covered and distributed among the contract pay items.

B. 16th STREET BRIDGE OVER MILITARY ROAD, NW (PART II):

The work includes, but is not limited to, the following items:

1. Phased demolition of the entire existing reinforced concrete rigid frame bridge and portions of adjoining wing walls and retaining walls. The entire existing bridge superstructure shall be removed to the limits shown on the plans in two stages in one complete unit for each stage. The bridge substructure removal for each phase shall follow after the superstructure is removed. Accelerated bridge construction techniques are expected to be used.
2. Excavations behind abutments and wing walls, design and installation and/or removal of temporary supports for excavation and maintenance of traffic during the installation of the temporary support systems. Excavations may extend through decomposed soil to solid rock.
3. Implementation and monitoring of vehicular traffic and its maintenance for the construction period including temporary lane closures, lane shifts and associated signing.
4. Clearing and grubbing, as directed by the Engineer, within the limits of the project and as shown on the contract plans.
5. Implementation of sediment and erosion control measures.
6. Painting of metal work and protective coating of concrete work as per plans.
7. Removal and disposal of selected areas of the existing roadway to the extent and depth as shown on the contract plans.
8. Reconstruction of roadway mainline and side streets including pavement overlay as shown on the plans.
9. Construction of storm drainage system. This includes the replacement of curb inlets.
10. Demolition and removal of existing approach slabs.
11. Construction of new bridge with prefabricated haunched and straight steel girders, deck slab, bearings, abutments, wingwalls, sidewalks, parapets, fence, railing, etc. as shown on plans. The complete new bridge superstructure shall be erected in one complete piece for each construction stage.
12. The surface stones for concrete parapets, abutments, and wingwalls shall be re-installed. The removed existing stone shall blend with the surrounding stone masonry.
13. Construction of new approach slabs at approach roadways along 16th Street. For milling and resurfacing of existing ramps, see roadway work below.

14. Construction of new electrical and telephone utilities under 16th Street and supported under bridge including light poles, conduits, cables and supports, etc. All existing utilities shall remain in service. These include the street light and traffic signal conduits and Verizon telecom utility conduits.
15. Design and installation, maintenance and removal of temporary support systems and protection shields under the bridge during all phases of construction and demolition.

In addition to the above, any incidental items of work necessary for a complete and finished product is included as part of this contract.

C. 16th STREET ROADWAY RECONSTRUCTION (PART II):

The work includes, but is not limited to the following items:

1. Total removal of the existing roadway to the limits shown on the drawings including undercutting or backfilling as necessary to replace existing unsuitable road bed soils; removal of existing curb and miscellaneous items.
2. Construction of a pavement consisting of eight (8) inches thick aggregate base, eleven (11) inches thick Superpave base course 25mm, two (2) inches thick Superpave Surface course 12.5, granite curb and PCC gutter.
3. Repair/ Replace PCC sidewalks; replace PCC/Brick median; install wheelchair/bicycle ramps.
4. Removal and replacement of inlets with water quality type double basins. Adjustment of utility structures to grade.
5. Traffic signal and street light work and Verizon conduit work.
6. Installation of permanent lane markings and signage.
7. Replacement of existing fire hydrants with breakaway type fire hydrants.
8. Milling and resurfacing at ends of new pavements and on Ramps 'C' and 'D', to limits shown on the plans.

D. MILITARY ROAD MEDIAN BARRIER & STREETLIGHT IMPROVEMENT (PART II):

The work includes, but is not limited to the following items:

1. Removal of existing guard rails, removal of existing median including curb and gutter and reconstruction of the existing median barrier with stone faced median barrier from Oregon Avenue to 14th Street. No work will be done in area where PCC barrier is existing.
2. Provision of end treatment (impact attenuators) for median barrier at Oregon Avenue and 14th Street and transition of new stone faced PCC barrier to existing concrete barrier.

3. Removal and replacement of existing catch basins along Military Road with dual throat water quality basins. Adjustment of utility structures to grade within the median area.
4. Traffic signal and street light work. All streetlights in the project area will be placed on the proposed median barrier.
5. Installation of permanent lane markings.
6. Modification of overhead sign structures on East and West side of the 16th Street Bridge.
7. Miscellaneous repairs to stone faced retaining walls and wing walls.

The Contractor shall obtain necessary permits related to the removal and disposal of asbestos materials in the project at no additional cost to the DDOT.

The Contractor shall produce design calculations and shop drawings in connection with the chosen system for temporary support structures or devices, protection shields, and other significant temporary work affecting the safety of the traveling public or workers on the project.

The Contractor shall be fully responsible for protection against damage for the duration of the contract of all the utility structures within the contract limits and adjacent thereto. The utilities include but are not limited to public and/or private water, sewer, electricity, gas, electric and communication lines. No separate measurement or payment will be made. Cost of this protective work shall be covered and distributed among the contract pay items.