





**Statement of Qualfications** 

**CIVIL & STRUCTURAL ENGINEERING** 

### FIRM PROFILE



Statement of Qualifications: Civil and Structural Engineering Services

# **OVERVIEW**

Delon Hampton & Associates, Chartered (DHA), is a minority-owned professional consulting engineering firm headquartered in Washington, DC for 46 years. We specialize in civil and structural engineering, as well as, program and construction management services. Our market sectors include land development/buildings, water and wastewater, transportation, transit, and aviation. We take pride in our tradition of providing high quality services to our federal, state and local government clients, as well as private sector clients.

We have a solid background in providing structural and civil design services for building projects. We have successfully developed and delivered cost-effective engineering solutions for office towers, academic facilities, hotels, healthcare, entertainment complexes, residential developments, transportation facilities, and many other types of building structures. Our strong project management abilities and our depth of resources enable us to perform equally well on small, single service and large, one-of-a-kind engineering projects.

Our corporate headquarters is located in one of the most accessible and highly-visited areas of the District, two blocks from the Capital One Arena. We have spent the past 46 years in the District building a reputation of excellence by delivering a wide range of projects in every Ward of the District, including the Jefferson Memorial Perimeter Security, VIDA Senior Residences, Shaw (Watha T. Daniel) Library, the Gallery Place mixed-use development, Nationals Park, DC USA mixed-use development, Capital One Arena and most recently CityCenter DC, another massive mixed-use development. As the District has grown through various Ward revitalizations, so has DHA. Not only in size, but in our innovative capabilities and knowledge. We have worked with local government agencies in many capacities, from processing and getting approvals for permits, to determining potential project schedule impacts because of the various utilities placed around a site. We have the local experience to guide our clients through the proper channels in a timely and efficient manner.

We are staffed with nearly 70 technical and support professionals, including 16 licensed professional engineers. We hold professional engineering services licenses in 11 states and the District of Columbia.

Our strength and leadership in the engineering industry has been proven by our long-term client relationships and our ability to deliver our projects on time and within budget. We bring the experience, resources, and technical expertise to provide engineering design, construction and program management services in response to the needs of our clients.

The key to our success is the delivery of quality service to our clients; a long-standing tradition established by our founder, Delon Hampton, PhD, PE. We have built our reputation on excellence, innovation, and the application of cost-effective solutions that meet our client's needs. We are committed to these standards and the successful execution of every project under our watch.

# At a glance...

#### DHA is...

- Client-Focused
- Solution-Oriented
- Nationally Recognized

#### DHA's staff...

- Delivers what is promised
- Individualizes each client's experience
- Provides each client with innovative and cost-effective solutions
- Values open lines of communication

### DHA is committed to...

- Excellence
- Quality
- Client Satisfaction

### DHA is located in...

- ▶ Washington, DC\*
- ▶ Silver Spring, MD
- Baltimore, MD

### Areas of Specialty/ Concentration:

- Civil and structural design
- Program and construction management

### **NAICS Codes:**

- ► **541330**: Engineering Services (Primary code)
- 236116: CM Multi-Family Buildings
- ▶ 236210: CM Industrial Buildings
- 237990: CM Mass Transit/ Tunnels/Outdoor Recreation Facilities
- 237310: CM Highways/Roads/ Streets/Bridges
- 237110: CM Water Sewer Line & Facilities
- 236220: CM Commercial & Industrial Buildings

\*Corporate Headquarters

### **Services**

We have some of the most talented people in the country on staff as structural and civil engineers. Our engineers provide practical solutions to issues confronting our clients. Our civil engineers are noted for developing and executing plans, management programs, and procedures on fast-track projects consisting of several design and construction phases; grading and drainage; water and sanitary sewer services; new and relocated utilities; storm water management; paving; restoration of streets and access roads; and handicap accessible structures.

Our engineers have successfully developed cost-effective engineering solutions for land development projects, various building structures, water/wastewater structures, as well as, transit and transportation facilities. Strong project management and depth of resources enable us to perform equally well on small, single service and large, one-of-a-kind engineering projects.

### Civil Design

We have successfully provided a wide range of professional civil engineering services for more than 40 years to both public and private sector clients. Our civil engineering practice involves a wide array of complex infrastructure and site design projects throughout the United States. Our civil/site engineering services have included site and roadway grading, pavement design, stormwater management facilities, erosion and sediment control plans, site utilities and relocations. Our practice involves not only the design of new facilities, but also the reconstruction, repair, and restoration of existing facilities and systems.

The main focus of our civil engineering efforts on any project is to provide the most efficient and economical design that fits the needs of the client, while satisfying the needs of all stakeholders involved in the design and approval process. From concept studies through final engineering and construction, DHA staff members have the technical and communications skills needed to make all project a resounding success.

### Structural Design

We have a successful history providing structural designs under aggressive, fast-tracked procurement methods and schedules. Our structural engineers are experienced with design and renovation for steel-framed, reinforced concrete, and post-tensioned structures. They are knowledgeable about specialized loading and vibration requirements. They successfully develop cost effective engineering solutions for a wide variety of clients in the public and private sectors. Strong project management skills and our depth of resources enable us to treat each project equally, regardless of size, scope and complexity.

It is the overall goal of the firm to provide proactive, responsive service and a high-quality end product that will function as designed for years to come.

# **Representative Library Project Experience**

We have provided engineering design services for the development of program requirements and final design schemes, preparation of plans, specifications, and detailed cost estimates; contract administration, and construction management services for public facilities to include libraries throughout the United States. We offer a full-range of capabilities to meet the specialized requirements for public facilities.

### Shaw (Watha T. Daniel) Neighborhood Library | District of Columbia Public Library (Washington, DC)

We provided structural and civil engineering design services, including structural analysis, design, and related construction administration services for this \$10 million, 20,000 SF, LEED\* certified facility in the District. The structural design included extensive seismic engineering and detailed coordination with intricate architecture. We provided construction administration services, such as structural shop drawings and submittal reviews, response to design RFI's, site visits during construction of the structural frame and site work to ensure quality of work and monitor progress. This project received the 2011 Merit Award – Cultural, from Mid-Atlantic Construction and the 2011 National Certificate of Recognition, from the AlSC's Innovative Design in Engineering and Architecture with Structural Steel (IDEAS2).



### Anacostia Neighborhood Library | District of Columbia Public Library (Washington, DC)

We provided structural and civil engineering design services, including structural analysis, design, and related



construction administration services for the new library. The site was surrounded by native landscaping that required no irrigation and bordered a bioretention pond that treats rainwater runoff before it flows into the Anacostia River. A biosaver filter, located under a parking lot in the vicinity of the facility, also helps filter storm water. The facility also encompasses a TPO white roof , which reflects sunlight to manage solar heat gain, while solar hot water collectors heat the water for the building. A large overhang on the south façade, a baffled skylight, an east-facing clerestory, and an exterior shade scrim on the west curtain

wall contribute to the naturally illuminated interiors.

### Dorothy I. Height/Benning Neighborhood Library | District of Columbia Public Library (Washington, DC)

We provided structural and civil engineering services, including structural analysis, design, and related construction administration services for the two- to three story library in Washington, DC. The building encompasses approximately 20,000 GSF. In addition to civil and structural engineering, we provided construction administration services, inclusive of structural shop drawings and submittal reviews, response to design RFI's, site visits during construction of the structural frame and site work to ensure quality of work, and monitored progress. This project received the 2011 Outstanding Project Award Winner for New Construction Under \$10 million, from the Structural Engineers Associations of Metropolitan Washington.



### Tenley-Friendship Neighborhood Library | District of Columbia Public Library (Washington, DC)

We provided structural and civil engineering design services, including structural analysis, design, and related



construction administration services for this \$10 million, 20,000 SF, LEED® certified facility in the District. This high-tech library facility encompasses computer laboratories, wireless internet, and reading rooms. Civil design services involved site utility and grading design, cutting-edge design for site drainage and LEEDS strategies, which included a green roof and various other sustainability features. Our civil engineers coordinated with the project architects to position the building on this site to work within the constraints of the existing landform.



# Representative University/College Project Experience

Our project experience includes the analysis, design and rehabilitation of university, education, and training facilities for various private, state and local clients. Our engineers are familiar with specialized loading and vibration requirements for medical equipment and unique medical systems. They are experienced in the design of concrete, steel, wood and composite structures; fast-track projects consisting of several design and construction phases; grading and drainage; water and sanitary sewer services; new and relocated utilities; stormwater management; paving; restoration of streets and access roads; and handicap accessible structures.

### Howard University | Interdisciplinary Research Building (Washington, DC)

We provided structural design services for this new building as the home of the University's core science and research facilitates. The new 81,000 SF mixed-use academic building supports and promotes interdisciplinary research and educational collaboration. The research building was designed as an energy-efficient (LEED) facility which incorporates cutting-edge technology and the latest educational, environmental and research standards. It includes wet and dry laboratories, instructional space, research support space, ground floor retail, and centralized offices for faculty, students and academic staff.



This six-level building had stringent requirements for vibration restriction on slabs due to sensitive laboratory equipment. The project had an aggressive design and construction schedule, also requiring the release of an early foundation-to-grade design package.

### University of Maryland College Park | Jeong H. Kim Engineering Building (College Park, MD)

We provided civil and structural design services for a new, 138,300 SF science building containing both research



labs and instructional labs, a high technology clean room, a 100-seat lecture hall, seminar and conference rooms, office space, display areas, and building support spaces. The building consists of three, abovegrade levels with a partial basement, and was designed for a minimum 125-psf live load to provide future flexibility. The building is established on a deep foundation system along with conventional slab on grade construction. The 10,400 SF clean room facility is vibration sensitive and was designed with a sophisticated isolated floor system to minimize

vibration transmission. A special cast in-place, waffle slab was utilized to provide additional stiffness beyond the typical structural framing system. In addition, a 4,600 SF Satellite Central Utility Building was incorporated, containing a mechanical plant for adjacent buildings.

### Towson University | Center for the Arts (Towson, MD)

We were responsible for all civil and structural design services for this facility. Our initial tasks involved conceptual design and programming followed by the development of full design documents. The objectives of this project were to consolidate the Theater, Music and Dance Departments in one facility to promote interaction between the various fine and performing arts disciplines; construct an addition to the existing building to meet the long-term space needs of the College of Fine Arts and Communication; and to renovate and upgrade the existing 27-year old building and infrastructure. To meet the above objectives, a new 122,000 GSF addition consisting of several separate additions each approximately two to three stories was constructed, as well as 165,000 GSF of existing space was renovated.



### Morgan State University | Academic Research Center (Baltimore, MD)

We designed the site and utility infrastructure for a 44,000+ gross SF, multi-story, academic research center, with a teaching greenhouse. Our work included: relocation of water and sewer lines that are within the new building foot print; provision of utility connections for water, sewer, storm drainage, steam, telecommunications, and electrical services; expansion of a parking lot to include new earth retaining structures; preparation of demolition plans; preparation of sediment and erosion control and stormwater plans; permit processing for storm water management and sediment and erosion control; and construction administration services.

# Representative Healthcare Project Experience

Our project experience includes the analysis, design and rehabilitation of hospitals, healthcare, clean room, laboratory, university, and administrative facilities. Our engineers are familiar with specialized loading and vibration requirements for medical equipment and unique medical systems. They are experienced in the design of concrete, steel, wood and composite structures; fast-track projects consisting of several design and construction phases; grading and drainage; water and sanitary sewer services; new and relocated utilities; stormwater management; paving; restoration of streets and access roads; and handicap accessible structures.

### Prince George's Hospital Center | Renovation of the Maternity and Child Healthcare Wards (Cheverly, MD)

We provided structural and civil engineering design for the acute care teaching hospital. The civil aspect of this project consisted of site survey and the design of new and relocated utilities for the addition to the maternity ward at the hospital. We prepared site and grading, paving, curbing and other site feature plans. Forest conservation letter and storm water management waiver applications, in addition to sediment and erosion control plans were also prepared. The structural component of this project consisted of the design and detail of a new steel floor and roof/mechanical equipment support framing for the building addition which is founded on a shallow slab-on-grade.



Other services included performing existing building structural surveys such as mechanical openings or core holes in floors, penning's in beams, and strengthening schemes for the existing building.

# Sibley Memorial Hospital | Medical Office Building, Parking Garage, and Radiation Oncology Addition (Washington, DC)

We provided civil engineering services for the design of the new office building and parking garage. We also



designed a separate off-site roadway improvements package that was approved by the District Department of Transportation (DDOT). We coordinated with several District agencies to determine specific items that would have affected utility sizing, stormwater management requirements, and water/sewer requirements. We obtained and reviewed the existing utility records, developed a proposed building footprint, inclusive of the proposed size; location; and connection points for utilities (water, wastewater, and storm water), paving and other civil requirements for the project.

We provided civil and structural engineering services for the design of the new addition and roadway modifications. The new, single story structure was designed with a concrete frame to match the existing adjacent building. The addition contained three linear accelerator structures, which were constructed of thick concrete sections to provide the mass necessary for equipment shielding. The roof structure was designed as a future floor. Additional load capacity was provided in the columns and foundations to support future vertical expansion.

The new addition included parking and roadway modifications to support current and future building additions. While there was some overlap in the work required for the two projects, they were designed and constructed as separate capital projects.

### Saint Elizabeths Hospital | Framework Plan (Washington, DC)

We provided civil engineering and regulatory review services for this study. We researched the existing master plan, zoning ordinances, topography, and utility records to verify the existing property characters. We performed an assessment and analysis of the existing facilities, land use, utilities, transportation, pedestrian and bicycle accessibility. We also assisted with the Phase 1 environmental assessment. We assisted with the generation of three conceptual redevelopment site plan alternatives for the campus.



# Representative Residential/Housing Project Experience

Our technical professionals are extensively familiar with the engineering design and construction management of housing/residential facilities. They are knowledgeable of the procedures, standards and regulations required to successfully provide engineering services for such buildings. This familiarity facilitates the understanding of potential construction impacts and ensures current knowledge of pertinent technical regulations, standards, practices, and review/permitting processes that are critical for providing our services.

### Hopkins Gateway Hotel (Baltimore, MD)

We provided structural and civil engineering services for this 15-story, 194-room extended stay hotel that also includes a full-service health club, retail marketplace, conference and lounge areas, and a monumental stair. The design of this facility was to contribute positively to the overall master plan objectives of the Science + Technology Park at Johns Hopkins and therefore, consideration had to be given to future additions and modifications. Due to unfavorable ground conditions, a foundations system consisting of a mix of a thick foundation mat, and spread footings founded on aggregate piers had to be devised. The building structure is reinforced concrete flat plates on columns with shear walls as the lateral resisting system.



### Progression Place (Washington, DC)

We provided civil and structural engineering consulting services for a \$25 million office, residential and below-



grade parking structure located at the intersection of 7<sup>th</sup> and T Streets, Northwest. We performed framing studies during Schematic Design to compare applicable framing solutions and explore project limitations and constraints. Deep foundations were utilized due to a portion of the office tower extends beyond the footprint of the garage and which is adjacent to the existing WMATA escalator and elevator.

The condominium building is comprised of approximately 187,000 GSF of "useable" above grade space. In addition, the complex consists of 2 1/2 levels below grade parking encompassing 165,000 GSF space. The

below grade parking garage structure and ground floor slab was constructed of a two-way, mildly reinforced cast-in-place concrete system.

### Henry Adams House, Cleveland Park (Washington, DC)

We provided civil and structural engineering design and related construction administration services for a new, multi-story condominium building in the District. This 211-unit luxury apartment building has peerless views of Rock Creek Park and downtown Washington. The building next to the Oyster School is 12 stories above grade. Housing approximately 210 condominium units. Two below grade levels of parking was provided for about 150 cars. Design services were on a fast-track.



### City Vista (Washington, DC)

We provided civil engineering design for a feasibility assessment, preliminary and final design, and



prepared contract documents including drawings and specifications. Services consisted of grading and drainage; water and sanitary sewer services; new and relocated utilities affected by the proposed improvement; roof stormwater management; and pavement restoration. In addition, DHA managed the surveying consultant. The project is a mixed-use development consisting of 685 residential units, 163,000 SF of retail space, and approximately 800 below-grade parking spaces. The project was comprised of two phases. Phase I consisted of two buildings: A twelve-story building, "K Street Condominiums," with 292

residential units and an eight-story building, "L Street Apartments," with 244 rental units. Phase II consisted of 149 additional residential condominium units in an eleven-story building called the "L Street Condominiums." A 1,600 SF courtyard welcomes pedestrian traffic at the corner of 5th & K Streets.

# Representative Mixed-use Development Project Experience

Our land development and building experience encompasses new construction, as well as renovation and re-use of existing buildings for the redevelopment of property that combines all the amenities of a thriving community: learning environments, places to shop, dine, live, work, and be entertained. We have performed engineering design services for developments encompassing mixed-use, waterfront, retail, residential, and office facilities.

### CityCenter DC (Washington, DC)

We provided civil engineering and construction management services, while managing a design team during the redevelopment of 13-acres of land in the heart of the District. We advised the developer and the architect on the utility layout, grading, permit requirements and stormwater management issues for developing the site. We are currently providing inspection of the installation of utilities for the site. Our staff developed a composite plan of the existing utilities on the site for master planning purposes.



### Gallery Place (Washington, DC)

We provided all structural and civil engineering services on this \$350 million, 1.3 million SF, multi-use



urban facility. It is composed of six parts: retail, cinema, residential, parking garage, atrium office floors and an office tower building.

The retail and cinema levels are multi-story steel braced frames with supplemental moment frames. These floors are composite slabs and composite steel beams. The nine story residential portion is post-tensioned flat slabs with concrete columns supported on and by the steel braced building.

The below grade parking garage is a regularly reinforced flat slab supported by concrete building columns and concrete walls. The main

building is supported on a 3 feet, 6 inches (3' 6") thick cast in place mat. The proposed office tower building is structurally separate from the rest of the multi-use facility and is a steel framed building with a braced vertical transportation core. This tower is founded on caissons extending to below the lowest adjacent parking level.

### DC USA Mixed-use Development (Washington, DC)

We provided civil and structural engineering design and related construction administration services for the redevelopment of a 13-acre site. DC USA is a 900,000 SF, mixed use, family oriented retail and sports complex with an underground parking structure.

We utilized creativity in the structural engineering design with the incorporation of knee braces; a structural element derived from wood carpentry. Knee braces were used to provide simple construction of two-way sheared bracing, and eliminated the need for moment connections in this expansive 20' - 21' high building.



Another unusual feature in the building is the use of pot-bearings that are common to bridge practice, but to our knowledge had not been used in a building in the Washington, DC area. The use was driven by the need to transfer large vertical loads directly through plate girders on the second floor rather than framing these same girders with high reactions onto the columns.





















Washington, DC\* | Baltimore, MD | Silver Spring, MD Established: January 1973

### Who we are:

Delon Hampton and Associates, Chartered (DHA), a minority-owned business, headquartered in Washington, DC for the last 46 years; provides comprehensive engineering and program and construction management services to both public and private clients. Our comprehensive engineering and program and construction management services are provided for the following markets: Aviation, Buildings & Land Development, Transit, Transportation, and Water/Wastewater. We have performed and managed comprehensive design, engineering and program and construction management projects with a construction value in excess of \$20 billion for several of the largest agencies in the United States. We have nearly 20 licensed PE's, technical professionals, construction support personnel with national experience.

### **DHA at a Glance:**

- ▶ Certifications: Minority Business Enterprise (MBE); Small Business Reserve (SBR); Certified Business Enterprise (CBE) (12 Preference Points); Local Disadvantaged Business Enterprise (LDBE); U.S. Small Business Administration
- ▶ NAICS Codes: 541330\*, 236116, 236210, 236220, 237110, 237310, 237990
- ▶ NIGP Commodity Codes: 925-00-00, 925-17-00, 925-17-20, 925-88-00, 958-26-00
- Licensed in the following states: District of Columbia, Florida, Maryland, New Jersey, New York, North Carolina, Pennsylvania, South Carolina, Virginia

# **Structural Engineering**



The Conrad Washington, DC



Marriott Residence Inn Baltimore at The Johns Hopkins Medical Campus



Shaw (Watha T. Daniel) Library



DC Water McMillan Stormwater Storag



DC USA Mixed-use Development, Atrium



Howard University Interdisciplinary Research Building

# **Civil Engineering**



Capitol Crossing Mixed-use Development



The Yards Park



Progression Place



Nationals Park



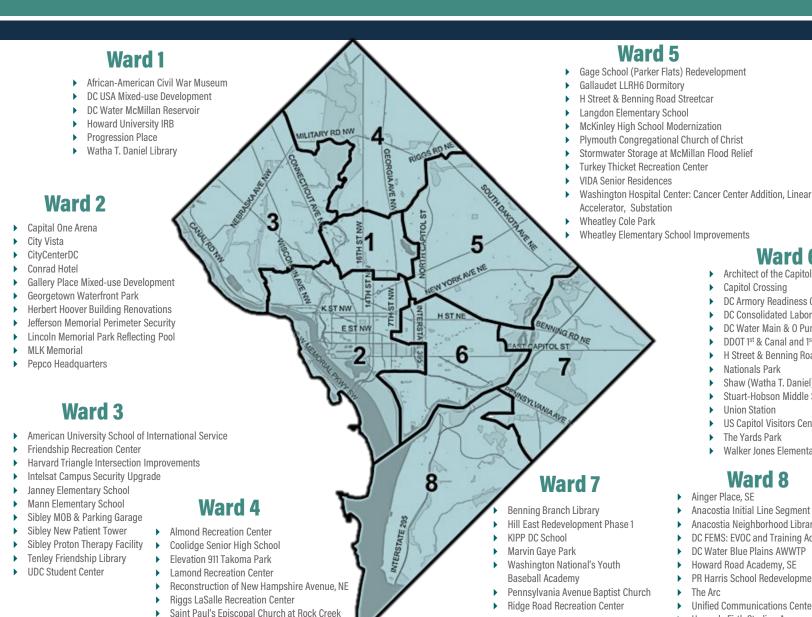
 ${\it CityCenterDC\ Mixed-use\ Development}$ 



niversity of Maryland College Park Jeong H. Kim Engineering Building

# DHA is a CBE / MBE with Years of Experience on Hundreds of Projects in the District (Civil/Structural/Permitting/CM)





Cemetery

### Ward 6

- Architect of the Capitol SW Mgmt
- Capitol Crossing
- DC Armory Readiness Center
- DC Consolidated Laboratory
- DC Water Main & O Pump Stations
- DDOT 1st & Canal and 1st & D Streets Pumping Stations
- H Street & Benning Road Streetcar
- Nationals Park
- Shaw (Watha T. Daniel) Library
- Stuart-Hobson Middle School
- Union Station
- **US Capitol Visitors Center**
- The Yards Park
- Walker Jones Elementary School

### Ward 8

- Ainger Place, SE
  - Anacostia Initial Line Segment
- Anacostia Neighborhood Library
- DC FEMS: EVOC and Training Academy
- DC Water Blue Plains AWWTP
- Howard Road Academy, SE
- PR Harris School Redevelopment
- - Unified Communications Center at Saint Elizabeths Campus
- Upgrade Firth Sterling Avenue

# **DHA is a MBE with Years of Experience on Hundreds of Projects in Maryland** (Civil/Structural/Permitting/CM)

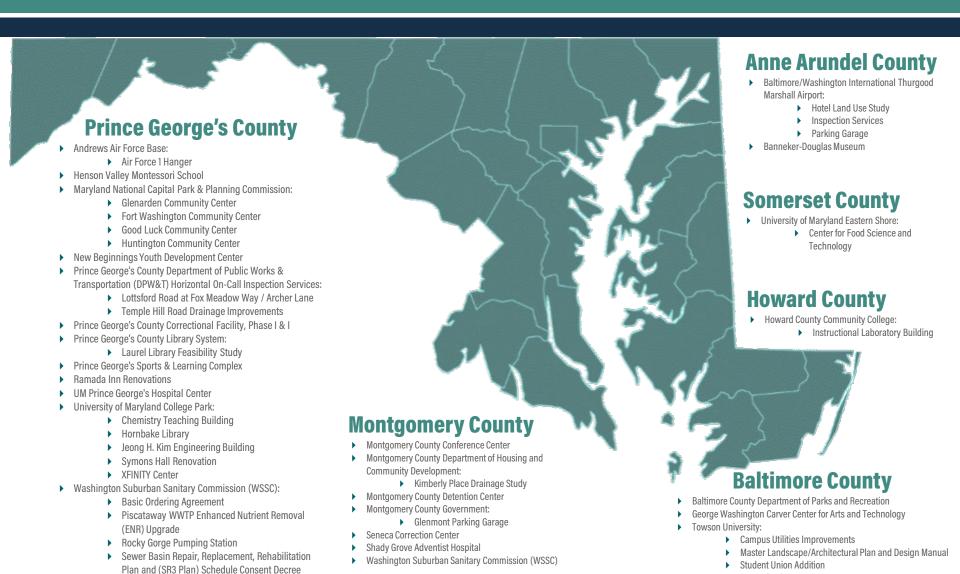
Program



Center for the Arts

Biological Sciences Building Renovation

United States Postal Service (USPS)
University of Maryland, Baltimore County:



# DHA is a MBE with a Deep History of Experience within the City of Baltimore (Civil/Structural/Permitting/CM)



- Baltimore City Public Schools:
  - Paul Laurence Dunbar Middle School Renovations
  - Dunbar High School
  - ▶ Booker T. Washington School
  - Carver Vocational Technical High School
- Baltimore Convention Center
- Camden Yards Stadium
- Christopher Columbus Center Piers 5 & 6
- Coppin State University:
  - Nursing Center Renovation and Addition
- Department of Public Works:
  - Back River Wastewater Treatment Plant
  - High Level Sewershed
  - Jones Falls Sewershed
  - Lower Jones Falls Gravity Interceptor
- Johns Hopkins University School of Medicine:
  - Broadway Research Building
  - Comprehensive Care Center
- Liberty Medical Center
- Linden Apartment at Druid Park
- Marriott Residence Inn Baltimore at Johns Hopkins Medical Campus
- Maryland Museum of African American History and Culture
- Maryland State Highway Administration:
  - Highway Design and Engineering Services for Statewide Projects
  - Maryland Route 100 & Route 713 Interchange
- Maryland Transit Administration (MTA):
  - ▶ Baltimore Central Corridor Light Rail System
- Morgan State University:
  - Academic Research Facility
  - Campus-Wide Master Plan
  - Holmes Hall
  - Howard Hal
  - Hughes Memorial Stadium (formerly Baltimore Memorial Stadium)
  - Verda Welcome Bridge
- Patterson Park Master Plan
- Port Discovery Children's Museum
- The Johns Hopkins University:
  - ▶ John G. Rangos Life Sciences Building | Johns Hopkins Science + Technology
  - Weinberg Linear Accelerator
- U.S. Army Corps of Engineers Baltimore District
- University of Maryland Medical Center
- University of Maryland Medical System (UMMS):
  - Lombard Street Building
- University of Maryland, Baltimore:
  - Biological Sciences Facility
  - Dental School Building
  - ▶ Health Sciences Facility Phase I & II

