



Expression of Interest for

Huntington Tri-State Armed Forces Reserve Center – Motor Pool Design

Solicitation No. CEOI 0603 ADJ1600000001



AMT

CONSULTING ENGINEERS

300 Summers Street, Suite 1280
Charleston, West Virginia 25301

07/06/16 09:34:37
WV Purchasing Division

July 6, 2016

State of West Virginia
Department of Administration, Purchasing Division
2019 Washington Street East
Charleston, West Virginia 25305-0130



July 6, 2016

Ms. Crystal Rink, Senior Buyer
State of West Virginia
Department of Administration, Purchasing Division
2019 Washington Street East
Charleston, West Virginia 25305-0130

RE: **Huntington Tri-State Armed Forces Reserve Center – Motor Pool Design**
Solicitation No. CEOI 0603 ADJ1600000001
AMT File No. P16-0499

Dear Ms. Rink:

A. Morton Thomas and Associates, Inc. (AMT) is pleased to submit this Expression of Interest to the West Virginia Army National Guard for the design and development of construction documents for the addition of a new motor pool at the Huntington Tri-State Armed Forces Reserve Center located in Kenova, West Virginia. We have extensive experience designing high quality, cost conscious military based parking lots with force protection measures and associated lighting, utilizing our knowledge of the best materials and design methods. AMT will be joined by NGE to provide geotechnical engineering services.

AMT has a proven track record of achieving excellence on our projects, including budget and schedule compliance. We have provided civil engineering and associated services for over 75 military parking lot projects in the past years, including:

- FBI Criminal Justice Information Services Division in Clarksburg, WV
- Army National Guard Readiness Center
- Arlington National Cemetery Parking Lot
- 51-Space Parking Lot Expansion for the P-561 Prototype Hangar Facility at NAVFAC Pax River
- New 83-Space Parking Lot and Access for P-140 Engineering Communication Facility at NAVFAC Pax River
- New Parking Lot and Access for Unmanned Aircraft Operation Support Facility at NAVFAC Pax River
- New 140-Space Parking Lot for the Child Development Center at Fort Myers
- New 114-Space Parking Lot and Existing Parking Lot Renovations for Atlantic Test Facility

AMT offers the West Virginia Army National Guard available staff with solid, successful experience in the design of parking lots and associated improvements. Our leaders will personally ensure not only the quality that you expect, but also the depth of manpower that will allow for 100% schedule compliance. We appreciate your consideration of our qualifications and look forward to the next stage of your selection process.

Kindly,

A. Morton Thomas and Associates, Inc.

Bartley "Bart" Schumacher, PE
Project Manager
bschumacher@amtengineering.com

Michael Wiercinski, PE, PS
Principal-in-Charge
mwiercinski@amtengineering.com

Project Understanding and Approach

Project Understanding

AMT understands that the scope of this project includes the development of drawings and specifications for the purpose of advertising and awarding a construction contract to construct a military motor pool for the Huntington Tri-State Armed Forces Reserve Center. Civil and electrical engineering will be provided to assist with the design and construction of a fully functional facility, within the proposed budget. Design services will include the preparation of all preliminary and final working drawings, specifications, detailed cost estimates, bidding and construction schedules, assistance in surveying, and analyzing and evaluating bids for construction. The proposed motor pool addition area consists of approximately 1.5 acres.

Preliminary design includes topographical and any other field survey, test bores, and other sub-surface investigations required, as well as the preparation of preliminary studies, sketches, layout plans and outline specifications and preparation of reports including cost estimates of the proposed project and of all structures, utilities and appurtenances thereto; and design and construction documents. The project scope also provides for the review and approval of samples and/or shop drawings, preparation of change orders and detailed cost estimates, evaluation of suppliers, change order proposals and recommendations for negotiation, and preparation of as-built drawings. Services also include presiding over the required construction meetings and preparing construction progress and forecast reports.

AMT has provided these services on numerous military installations, including readiness centers, training centers and military settings. Our projects have included parking facilities design and improvements (both MOV and POV), roadways and traffic controls, and Anti-Terrorism/Force Protection (AT/FP) design such as perimeter fencing with breach detecting sensors, fenced parking, gate upgrades, CCTV systems, and lighting.

Project Approach

To prepare for this proposal, AMT conducted a field review to gain a better perspective of the actual conditions for the proposed motor pool facility at the

Huntington Tri-State Armed Forces Reserve Center. AMT understands that the upgraded access road and parking lot will be configured as shown in the aerial image below:



Aerial Overview of Proposed Access Roadway and Motor Pool Parking Area

The primary goals of the project include reconstruction of the access road to the parking area to better accommodate heavy vehicles and improve the alignment at the intersection of the adjoining roadway, along with grading and creation of a parking area to accommodate heavy military equipment. Based on our field review, experience, and understanding of the project information available, AMT has developed a list of key design parameters for the construction of this facility.

Topographic and Utility Surveying

AMT will perform various types of surveys in support of the engineering design effort for the project. All survey effort will be performed to meet the Minimum Standards of Practice as outlined by the West Virginia Board for Professional Surveyors (WVBPS) in the annotated code of West Virginia as delineated in §30-13A-6. A control survey will be performed utilizing both GPS and conventional survey methods. The control survey will establish a horizontal and vertical survey control network throughout the project limits.

Utility Survey

AMT's survey team will note the location of all overhead utilities and review Army National Guard records and

available as-built plans to note any potential underground facilities.

Field Topographic Survey

AMT's survey team will develop topographic base plans extending the full length of the project and 200 feet from the anticipated boundary of the parking area and the edge of the access roadway. The survey will be produced with 2-foot contours, or as directed by the Army National Guard. Surveys will obtain the location, pipe sizes, material, and invert elevations of gravity sewer and storm drainage systems, SWM facilities, and all surface utility locations. Benchmarks and traverse points will be included in the construction plans. Spot elevations and break lines will be included in order to produce an accurate DTM surface file. All survey data and topo files will be reviewed for accuracy.

Survey Control

AMT will utilize the GPS data sheets from Cabell County to establish primary horizontal and vertical control using static GPS methods. A conventional field run closed loop traverse and differential levels will be run between the primary GPS points. We will follow the West Virginia State Plane Coordinate System, West Virginia Coordinate System of 1983 and NAVD 88 vertical datum.

Utility Coordination

AMT will coordinate with the local utility companies:

- Cable and Phone Service: *Frontier Communications and Comcast*
- Power and Electric: *Appalachian Power*
- Gas: *Mountaineer Gas*
- Water: *WV American Water*
- Sewer: *Huntington Sanitary Board*

AMT will utilize the utility information obtained during the survey to identify which utilities may be in conflict with the proposed construction. We will coordinate directly with each company to work out a relocation of their utility, or as much as possible, modify our design to avoid the utility. An existing electrical service line is located along the western boundary of the property. From our preliminary review, the existing wooden utility poles should not be impacted by construction of the motor pool facility and the location of the electrical service maybe be conducive to supporting the new lighting system for the facility.



Existing Appalachian Power Line on the Western Property Boundary

Geotechnical Engineering

NGE, as a subconsultant to AMT, will provide geotechnical engineering services for this project. NGE will review previous studies and provide supplemental investigations to establish recommendations for the pavement of the access road and the bearing capacity of the soils in the motor pool parking facility. NGE will collect soil and strata borings in the areas of the access roadway and the parking facility as part of the geotechnical report that will be utilized by the AMT design team.

Site Grading of Parking Area

The project site will be graded and drained in preparation for a motor pool constructed using an aggregate base course suitable to withstand the heavy loads of military equipment. NGE will conduct geotechnical analysis of the underlying soils and utilized for consideration of bearing design and drainage. From the geotechnical report, design of a stone pavement structure will be developed to support the anticipated vehicle loading and to ensure drainage of the parking area. The grading plan will be developed to minimize earthwork and potential sediment pollution. The grading plan will contain detailed topographical and boundary information. Fencing will be constructed surrounding the site to match the existing 6-foot fence with 3 strands of barbed wire. The fence will meet force protection standards provided by the National Guard. Although the parking area will be unmarked, the dimensions of the parking area will be designed to accommodate the large vehicles intended by the Army

National Guard and developed in accordance with the Department of Defense (DOD) Unified Facilities Criteria (UFC) and the *Parking Principles* document published by the Transportation Research Board (TRB).



Location of the Proposed Motor Pool Parking Area

Roadway and Pavement Design

After obtaining the geotechnical evaluation of the underlying soils along with the appropriate Equivalent Single Axle Load (ESAL) data, the structural features of the pavement for the access road will be developed in accordance with the Pavement Transportation Computer Assisted Structural Engineering (PCASE) software analysis tool to establish pavement thickness. Heavy loads are anticipated for the access road and it will be a critical component of this project to construct a structural pavement that will withstand the anticipated vehicle loads. The roadway will be designed according to AASHTO criteria for horizontal and vertical alignment and should be wide enough for two large vehicles to pass, with the design vehicle determined by the Army National Guard.



Location of Motor Pool Access Roadway

AMT designers will utilize InRoads software on the MicroStation CADD platform for development of the alignment and surface modeling. The final plan stage will include full construction documents including final plans, supplemental specifications, and technical specifications. AMT will prepare detailed roadway construction plans that will have sufficient detail for a successful advertisement and bid for construction. The road will be designed using UFC and AASHTO requirements for a rural local service route and an anticipated design speed of 25 mph, or as directed by the Army National Guard. This will allow us to efficiently produce cross sections and obtain quantities. Limits of disturbance and right-of-way lines will be displayed.

Stormwater Management and Erosion and Sediment Control

Site drainage will be accommodated by sheet flow, with berms, check dams, slope drains, silt fence, and seeding and mulching to avoid excessive runoff of water. Our design will also include a stormwater management system sized for the appropriate design year event. Additionally, surface water quality will be treated using manufactured BMP's from Filterra or others for compliance with all state and local requirements for stormwater treatment, including close coordination with the WV Department of Environmental Protection (DEP).

AMT will prepare separate single phase Erosion and Sediment (E/S) control plans in accordance with the

National Pollutant Discharge Elimination (NPDES) regulations as set forth by the federal Environmental Protection Agency (EPA). All local state criteria as established by the WVDEP will be adhered to as well. A detailed sequence of construction will apply for each project phase. InRoads modeling will be utilized to determine final contours. A temporary pollution control plan will be submitted as part of the contract documents.



Existing Site Drainage

Lighting Design

Lighting will be provided to illuminate the project area in accordance with federal DOD UFC and Department of Energy (DOE) standards. From our preliminary review, it is anticipated that newer LED fixtures will be utilized to reduce electricity usage and maintenance costs. LED lighting also provides a more natural light that enhances nighttime visibility in comparison with other available illumination, such as high pressure sodium, mercury vapor, or halide lighting. Electrical Service, cable, conduit, trenches, pull boxes, grounding, and hardware will be designed according to the National Electric Code. After determining the line voltage and location of the existing power service, AMT will calculate the voltage drop in the proposed lighting to determine the proper wire size needed. Additionally, photometric analysis will be performed to determine the appropriate spacing and height of light fixtures to illuminate the parking area.

Permits and Approvals

AMT will prepare all the necessary applications, sketches, and supporting documentation for the environmental permits and authorizations. AMT's staff

includes experts dedicated to processing and tracking permits. They are familiar with the permits and approvals administered by WVDEP and other resource agencies. Since the limit of disturbance will exceed 1.5 acres, an NPDES permit will be required for this project in accordance with Section 404 of the Clean Water Act.



Area of Likely Stormwater Outflow

Construction Cost Estimate and Contract Time Determination

AMT will prepare a construction cost estimate for all submittal stages. Quantities will be measured based on the standard Department of the Army specifications and bid prices will be current market rate prices. We will review current unit bid prices for the development of a detailed project estimate. Project construction items and quantities will be summarized in a table and the appropriate contingency will be added dependent on the level of completion of the project. The Estimate will be submitted for review at the Preliminary and Final submittal stage.

Construction Administration

Construction Administration services will be provided including shop drawing and request for information (RFI) reviews, progress meeting attendance and meeting minute preparation, change order review and recommendation, punch list for substantial completion and final acceptance, and record drawings based on contractor-provided redline markups.

Staffing Plan

AMT is committed to providing the following key staff to the West Virginia Army National Guard for the duration of the Huntington Tri-State Armed Forces Reserve Center – Motor Pool Design Project:



Key staff are AMT employees unless noted as follows:
NGE – NGE (*Geotechnical Engineering*)

Principal-in-Charge

Michael Wiercinski, PE, PS

Project Manager

Bart Schumacher, PE

Project Team

Civil Engineering

Matthew Ernest, PE, LEED AP BD+C

Lighting Design

Aaron Wenger, PE

Support Services

Geotechnical Engineering

John Nottingham, PE (NGE)

Surveying

John Claytor, PS

Staff Qualifications and Experience



Bart Schumacher, PE

Project Manager

Years of Experience: 21 With AMT: 11

Why selected for this project

- Intimately familiar with standards and requirements necessary for parking projects involving transportation improvements

REPRESENTATIVE PROJECTS

New Wirt County Headquarters, Wirt County, WV: Design Leader for a project to demolish and construct new Wirt County Headquarters. The project included site layout for new building, access road, parking, utility relocations, erosion and sediment control, and environmental permitting.

New Ellenboro Substation, Ritchie County, WV: Design Leader for a project to construct new office building, salt shed, spreader shed, construct new access road, and fence around the entire property. The project including site layout for new building, access road, parking, utility relocations, erosion and sediment control, and environmental permitting.

Camden Avenue Park and Ride Expansion, Wood County, WV: Design Leader for a project to expand the existing park and ride facility. The project included site layout, modification of drainage, revised layout of parking spaces, design of erosion and sediment control features, and environmental permitting.

Conley Fabrication, Wood County, WV: Design Leader for a project to build a new road into a new industrial access facility at Conley Fabrication. The road was built to accommodate large vehicles with heavy loads.

Interstate Salt Shed, Wood County, WV: Design Leader for a project to build a new salt shed and construct new roadway into the facility. The project included adding additional fencing to restrict access to the facility.

EDUCATION

BS, 1993, Civil Engineering, West Virginia Institute of Technology

REGISTRATION

West Virginia Professional Engineer #14185



Michael Wiercinski, PE, PS

Principal-in-Charge (PIC)

Years of Experience: 40 With AMT: 30

Why selected for this project

- 40 years military project experience
- Directs the firm's engineering operations and leads AMT's QA/QC efforts

REPRESENTATIVE PROJECTS

Fort Myer Fitness Center Parking Lot, Fort Myer, VA: PIC for comprehensive civil engineering, permitting and construction phase services for design of a new 216-car parking lot for the fitness center at Fort Myer. Project components included site grading, erosion/sediment control plans, lighting plans, pavement markings, signing plans, landscape architecture, and National Capital Planning Commission (NCP) coordination and review.

Fort Myer Child Development Center Parking Lot, Fort Myer, VA: PIC of surveying, site layout, civil engineering, and landscape design services for a 90-space parking lot associated with a new child development center. The project also included service drives, playgrounds, fencing, and pedestrian connections.

Criminal Justice Information Services Division of the FBI, Clarksburg, WV: PIC of civil engineering services associated with several projects at the FBI facility in Clarksburg. Projects included 6" water line for CMT Building, drainage system design for West Guard House Canopy, site plan design for the repair/replacement of 10 vehicle barriers, design of corrective measures for two areas of sidewalk on East Road, and design to correct the differential settlement at North Plaza.

Army National Guard Readiness Center, Arlington, VA: PIC of civil engineering, surveying, and landscape architecture for a variety of projects at the Army National Guard Readiness Center. Services have been provided for facility additions, maintenance, security upgrades and related site work. Site improvements have included perimeter security upgrades including new access control point, active and passive vehicle barriers, double steel cable barrier system, removable bollards at low traffic areas and motorized ornamental heavy duty sliding and swinging gates at the main and north entrance.

EDUCATION

BS, 1975, Civil Engineering, West Virginia University

REGISTRATION

West Virginia Professional Engineer #8985;

West Virginia Licensed Surveyor #1303





Matt Ernest, PE, LEED AP BD+C
Civil Engineer
 Years of Experience: 19 With AMT: 19

Why selected for this project

- Designed improvements for over 50 parking lots and roadways in the past 10 years
- Expertise also includes pedestrian circulation, SWM including LID, E/S control, drainage, & utilities

REPRESENTATIVE PROJECTS

P-140 Engineering and Communication Facility (NAVFAC), Patuxent River Naval Air Station, MD: Civil Engineer responsible for providing design and permitting services for this new LEED Silver engineering communications facility with an 80-space parking lot and utility infrastructure. Loading/Service Area size was determined based on AutoTurn vehicular turning movements. The design services included Anti-Terrorism/Force Protection (AT/FP), on-site water and sewer, water system extension, storm drainage, site grading and layout, SWM, and erosion control. Coordinated electrical and communication layout and profile. Provided CA services.

Child Development Center (NAVFAC), Patuxent River Naval Air Station, MD: Civil Engineer responsible for civil/site and landscape design for the 300-child CDC. Services included topographic survey, site/utility demolition, site improvements, grading/drainage, 106-space parking area, LID SWM design/permitting, AT/FP and area of refuge coordination, erosion control, and CA phase services.

P-155 Atlantic Test Range Addition and Parking Lot, Patuxent River Naval Air Station, MD: Civil Engineer a new 8,000 GSF LEED Silver aircraft test range facility and associated 114-space parking lot with associated utility infrastructure. Services included on-site water and sewer, site storm drainage, site grading and layout, MDE SWM, erosion and sediment control, and AT/FP measures.

Unmanned Aircraft Support Facility (NAVFAC), Patuxent River Naval Air Station, MD: Civil Engineer for this new engineering support facility with a 30-space parking lot and utility infrastructure. The design services included parking lot layout, AT/FP, storm drainage, site grading and layout, SWM, and erosion control. Coordinated electrical layout and profiles.

EDUCATION

BS, 1997, Civil Engineering Technology, University of Pittsburgh

REGISTRATION

Professional Engineer: MD, VA, DC, PA;
 LEED Accredited Professional with Building Design and Construction Specialty



Aaron Wenger, PE
Lighting Designer
 Years of Experience: 19 With AMT: 3

Why selected for this project

- 19 years of experience in lighting design

REPRESENTATIVE PROJECTS

O Street NW Road Extension, Washington, DC: Civil Engineer for a new public street light system as part of a DDOT project providing a new public road extension of O Street NW. Coordinated with PEPCO for the service feed to the street lights, conducted reviews and photometric analysis, and prepared designs for the DDOT conduits, manholes, wiring, foundations and associated details for the street lights.

Rhode Island Avenue Transportation Improvement Program, Washington, DC: Project Manager/Engineer for streetscape improvements for 28 blocks (1,200 LF) of Rhode Island Avenue. Coordinated the survey effort, and managed public space LID infrastructure design to the 30% level, including conducting site visits and participating in meetings, base mapping, input for concepts and draft plans, and providing consultation and coordination regarding street light and utility infrastructure costs and existing conditions.

Minnesota Avenue NE Revitalization Project (Phase 2), Washington, DC: Project Engineer for design of the proposed PEPCO underground conduit-manhole system, for a length of approximately 1,300 LF within the roadway. Design plans for the proposed DDOT public street light system included conduits, manholes, light pole foundations, wiring, Pepco electric power source, and associated details for the full project length. The new light standards and fixtures include the decorative Washington globe and pendant poles with teardrop fixture. Included conflict resolution with utilities and bioretention facilities and also included preparing and producing photometric analysis plans for the public street light locations.

2400 24th Street South, Arlington, VA: Project Engineer for the design, coordination, submittals, and approvals for Arlington County public street light design, including conduits, handholes, light poles, foundations, and electric power source. Prepared design plans for relocation of the existing overhead utility lines and equipment to be placed underground.

EDUCATION

BS, 1996, Civil Engineering, Purdue University

REGISTRATION

Professional Engineer: VA, DC



John E. Nottingham, PE

Geotechnical Engineer

Years of Experience: 28 With NGE: 12



John Claytor, PS

Surveyor

Years of Experience: 33 With AMT: 3

Why selected for this project

- West Virginia Office Manager with extensive project experience in West Virginia
- Knowledge and expertise with geotechnical engineering aspects of roadways and parking lots

Mr. Nottingham has served as Principal Engineer and Office Manager for the West Virginia office of NGE since late 2002. In this capacity, he has served as lead Geotechnical Engineer on hundreds of government, commercial and industrial design projects.

REPRESENTATIVE PROJECTS

I-70 High Mast Light Towers, Wheeling, WV: This project consisted of a Geotechnical Investigation needed for the design of 34 high-mast light towers along an 11-mile section of I-70 in Wheeling, West Virginia for the West Virginia Department of Transportation. The geotechnical investigation included drilling one test boring at each tower location, performing laboratory testing to classify the soils and determine their engineering properties, and providing detailed recommendations for the design of the towers' foundations.

New Access Road for the VA Medical Center, Huntington, WV: Performed a Geotechnical Investigation for a new 3,000-foot long access road for the VA Medical Center. The project included drilling of 11 test borings along the planned road alignment. Laboratory testing of collected soil samples was performed. A Geotechnical Engineering Report was prepared discussing the results of the subsurface investigation and providing detailed recommendations for design of the project earthwork.

Coonskin Park Bridge and New Access Roadway, Charleston, WV: Lead Geotechnical Engineer for this design/build project to construct new access into the Coonskin Park in Charleston, West Virginia. The Geotechnical Investigation included drilling of 8 test borings and performance of laboratory testing on the collected soil and bedrock samples. Detailed recommendations for design of the project's earthwork and bridge foundations were provided.

EDUCATION

MS, 1995, Civil Engineering, West Virginia University;
BS, 1987, Civil Engineering, West Virginia University

REGISTRATION

West Virginia Professional Engineer #12357

Why selected for this project

- Over 30 years of combined experience related to field, office and management tasks involving transportation and parking improvements
- Survey experience includes aerial and field-run topographic surveys, boundary surveys, corridor mapping, GPS and conventional survey control networks, GPS-RTK surveys, hydrographic surveys, environmental surveys, utility surveys, and construction stakeout

REPRESENTATIVE PROJECTS

WV Route 2 over Proctor Creek, Wetzel County, WV: Project Surveyor for the replacement of the 3-span, approximately 230-foot long bridge carrying WV 2 over Proctor Creek. The existing rural bridge is located along a curved horizontal alignment and carries two traffic lanes in each direction with a roadway width of approximately 50 feet. The survey and mapping included approximately 35 individual properties adjacent to the public right-of-way and coordination with WVDOH staff to apply information contained in archive mapping. AMT design services involve bridge deck and superstructure design, modification of existing abutments to joint-less abutments, roadway widening design plans, and maintenance of traffic.

US Route 1 Improvements at Fort Belvoir, Fairfax County: Project Surveyor for a \$70 million, 3.68-mile design/build project. Surveying services include GPS-RTK and project control setup, supplemental surveying in areas that have been modified, subsurface utility locating and designating, and design survey QA/QC.

Shiloh Park Access Road and Parking Lots, King George County, VA: Survey Project Manager for a 33-acre county park, including a recreational access road, new parking lots with bus parking and ADA accommodations, and recreational facilities. Surveying services included a compiled boundary and supplemental topographic surveying based on county-provided mapping.

EDUCATION

Coursework, Land Surveying Technology, Austin Community College

REGISTRATION

West Virginia Professional Surveyor #2321



References

Department of the Navy, Naval Air Station – Patuxent River

Ms. Teena Wettengel

22445 Peary Road

Building 504

Patuxent River, Maryland 20670

301-757-4924 (phone)

Teena.wettengel@navy.mil

AMT provided civil engineering for this design-build renovation of Pax River Building 503 and associated site work. The project included demolition and replacement of the existing parking lot, walkways, new water, sewer and gas services, and stormwater management. The project was to achieve a LEED Silver rating.

Virginia Department of Transportation (VDOT)

Mr. Timothy Crooks

1201 East Broad Street

Richmond, Virginia 23219

804-371-6728

Tim.Crooks@VDOT.Virginia.gov

AMT provided civil engineering and surveying services on two new state facilities for VDOT – the 6-acre Manassas Traffic Field Operations (TFO) facility and 19-acre Chantilly/Clifton Area Headquarters (AHQ) facility. Surface parking lot designs included access roads, internal circulation for turning movements, space sizing for cars and maintenance vehicles, loading areas, geotechnical pavement sections, traffic signage and pavement striping, curb and gutter, retaining walls, site lighting, and related work.

West Virginia Department of Transportation, Division of Highway (DOH)

Mr. Dennis Alderson

Engineering Division

1334 Smith Street

Charleston, West Virginia 25301

304-558-9679

Dennis.R.Alderson@wv.gov

Dennis Alderson was the primary reviewer at WVDOH who reviewed all work performed by AMT's Project Manager, Bart Schumacher, PE, while working for WVDOH.

Similar Projects

Army National Guard Readiness Center

AMT provided civil engineering, surveying and landscape architectural services for a variety of projects at the Army National Guard Readiness Center in Arlington, VA. As part of a multi-discipline A/E team providing ongoing consultation to the ANGRC, AMT provided services over several years in connection with facility additions, maintenance, security upgrades and related site work. Site improvements included perimeter security upgrades including new access control point, active and passive vehicle barriers, double steel cable barrier system, removable bollards at low traffic areas and motorized ornamental heavy duty sliding and swinging gates at the main and north entrance. Other site work included storm drainage improvements at the main entrance, various sidewalk replacements and repairs, site work and new concrete truck access associated with a new storage and maintenance building, and improvements associated with a running track.



Client Contact Information:
N/A - Retired

Criminal Justice Information Services Division of the FBI

AMT provided civil engineering services associated with several improvements to the Criminal Justice Information Services Division of the Federal Bureau of Investigation in Clarksburg, WV. Specific services included:

CMT Building: Design for a new 6" water line from the exiting main to 5 feet outside the building. Plan, profile and details were provided.

West Guard House Canopy Design: Designed a drainage system for collecting and conveying stormwater runoff from the new canopy. Designed new concrete islands and bollards to separate the passenger vehicle driving lanes and to provide mounting locations for security access devices. Pavement restoration details were also provided.

Vehicle Barriers: In support of the repair or replacement of the ten (10) vehicle barriers, prepared the site plan for each of the barrier locations, indicating existing site conditions at each barrier.

East Road Drainage System: Designed corrective measures for two (2) areas of settlement/cracking in the sidewalk between the parking lot and the main building. Additionally evaluated and designed corrective measure to address erosion occurring around the road embankment. Also evaluated the hydraulic capacity of an existing inlet in a concrete channel that experienced overflows and was causing significant downstream erosion.

North Plaza: Provided plan and details to correct the differential settlement that occurred in the area based on visual site assessments.



Client Contact Information:
N/A - Retired

Fort Myer Child Development Center Parking Lot

AMT provided surveying, site layout, civil engineering and landscape design services for a new child development center, including a 90-space parking lot, service drives, playgrounds, fencing, and pedestrian connections. New utilities included water service, a sanitary sewer system, and a storm drainage system. Other existing utilities were preserved, including adjusting the site grading to avoid relocating an existing steam line.

Considerations for design of the parking lot included accessibility, handicap parking, safe access, effective drainage, and vehicular circulation. Designed the layout, parking, screening, and landscape to maintain force protection setback and in accordance with Ft. Myer Installation Design Guidelines, Military District of Washington. Plantings of shade trees, evergreen trees, shrubs, and groundcover were located to maintain security perimeters, yet provide screening, shading, and aesthetic values. Within 10 meters of the building, AMT insured that nothing could hide an item larger than 6"x6". Plantings and playground equipment in the new playground areas were strategically located to provide force protection setbacks while still providing shading and separation between younger and older children.



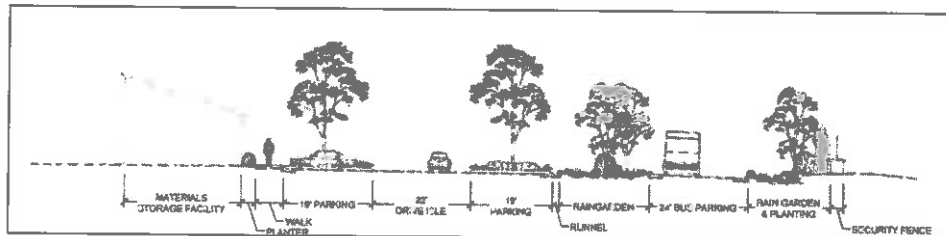
Client Contact Information:

US Army Corps of Engineers
Jose E. Burgos
410-962-4660 (phone)
jose.E.Burgos@usace.army.mil

Designed stormwater management in accordance with military and Arlington County requirements, incorporating plant material and natural processes to treat water quality and quantity. In addition to reviews by CDC, Ft. Myer DPW and USACE, the stormwater management plans and erosion and sediment control plans were submitted to Arlington County Department of Environmental Services for review and approval.

Arlington National Cemetery Parking Lot

AMT provided design of a new and expanded parking facility with retaining and decorative walls. The project also included stormwater management facilities, coordination with VDOT regarding an access permit, utility extensions and relocations, and preparation of bidding documents.



Additionally, AMT provided surveying, subsurface utility locating services, and landscape architecture. The parking lot included approximately 110 spaces which was achieved by expanding the existing parking lot and reconfiguring to meet the program for the facility. A perimeter and decorative retaining wall was designed to separate the parking spaces from the adjacent roadway. Landscape screening was provided and coordinated with the National Capitol Planning Commission for their approval and acceptance. Stormwater management controls were provided by below-ground storage facilities and bio-retention facilities for quality purposes. Telecommunication and power utility lines were relocated as part of the project. An existing 10" waterline was also relocated.

Client Contact Information:

US Army Corps of Engineers
Katherine Welton
410-962-3379 (phone)
Katherine.Welton@usace.army.mil

New Parking Lots and Access Roads for NAVFAC PAX RIVER

AMT provided comprehensive civil engineering services for two NAVFAC Patuxent River Naval Air Station facilities, including:

P-140 Engineering Communications Facility: Civil engineering services for a new 18,000 GSF LEED Silver engineering communications facility with an 80-space parking lot and associated utility infrastructure. Coordinated site lighting locations. Loading/service area size was determined based on AutoTurn vehicular turning movements. Design services included an early rough grading and drainage package to expedite construction schedule, on-site water and sewer, water system extension, storm drainage, site grading and layout, MDE SWM, and erosion and sediment control. Designed Anti-Terrorism Force Protection (AT/FP) measures. Coordinated electrical and communication layout and profile. Coordinated work adjacent to wetlands and waterways. Provided construction phase services.



P-155 Atlantic Test Range Addition and Parking Lot: Civil engineering design services for a new 8,000 GSF LEED Silver aircraft test range facility with a 114-space parking lot and associated utility infrastructure. Fire access lane size was determined based on AutoTurn vehicular turning movements. Coordinated site lighting locations. Design services included multiple packages to provide for "early start" construction, on-site water and sewer, site storm drainage, site grading and layout, MDE SWM, and erosion and sediment control. Designed Anti-Terrorism Force Protection (AT/FP) measures. Coordinated electrical and communication layout and profile. Coordinated work adjacent to wetlands and waterways.



Client Contact Information:

G-W Management Services, LLC
Andrew Phillips
301-881-8517 (phone)
aphillips@g-wms.com

On-Call A/E Services IDQ for Naval Surface Warfare Center

AMT provided civil engineering, surveying and landscape architecture services in connection with IDQ assignments for the Naval Surface Warfare Center in Dahlgren, Virginia. Project components included studies, plans, specifications and cost estimates for new construction and maintenance/repair projects including buildings, concrete structures, utilities, and parking areas. Example projects include:

Theatre Warfare Center: Civil engineering and topographic surveying for the design of an 18,000 SF addition. The design included relocation of existing water, sewer, and storm drain facilities; new utilities infrastructure; parking lot replacement; and application of force protection criteria. Stormwater management and erosion and sediment control were key environmental components.

Battleforce Command Center: Civil engineering, topographic surveying, and utilities locating for this educational facility addition. Project components included site development, parking lot improvements, road alignments, water/sewer and drainage realignment, and landscaping. Stormwater management control plans were prepared for VDSWC.

Tomahawk Mission Planning Development Laboratory: Civil engineering services for this 6,100 SF addition. Site work included parking, utilities relocation, improvements to adjacent roads, and landscaping. Stormwater management and erosion and sediment control plans were prepared in accordance with VDSWC and VDEQ regulations.

Dahlgren Housing: Prepared civil elements for design-build RFP documentation in accordance with NAVFAC Design-Build Request for Proposal. Also provided evaluation of existing water system infrastructure and cost estimates for site elements.

Client Contact Information:

N/A - Retired

New Access Road for the Huntington VA Medical Center

AMT's subconsultant, NGE, provided geotechnical drilling and engineering services for a new access roadway into the VA Medical Center in Huntington, West Virginia. The new access road will connect the southern end of the VA Medical Center to Spring Valley Drive. The new roadway will be approximately 3,000 feet long, with approximately 325 feet of elevation change. Significant cut slopes and fill embankments are required for the project. The area of the proposed roadway traverses numerous areas of past slope instability.

Client Contact Information:

Randolph Engineering
Jacob C. White, PE
304-757-9217 (phone)
jw@randolphengineering.co

NGE's scope of work for this project included the following:

- Field work coordination including site reconnaissance, drilling supervision and sample logging.
- Drilling of 11 test borings including standard penetration testing and sampling and rock coring.
- Laboratory testing of representative soil samples obtained from the test borings.
- Preparation of a geotechnical engineering report to address the following items:
 1. A description of the subsurface conditions encountered at the test boring locations including detailed typed boring logs.
 2. Results of the laboratory testing performed to classify the soils and aid in determination of their engineering properties.
 3. Slope stability analysis of planned fill embankments.
 4. Recommendations for site preparation and earthwork including cut slope design, fill embankment design, and fill placement recommendations.

Coonskin Park Bridge and New Access Roadway

AMT's subconsultant, NGE, provided geotechnical drilling and engineering services for a new bridge and access roadway into the Coonskin Park in Charleston, West Virginia. NGE provided services to the Contractor for this design/build project. The new access road and bridge carries Coonskin Drive over the Elk River and connects with US Route 119. The bridge consists of a 3-span structure approximately 470-feet in length.

Client Contact Information:

Swank Construction Company
Michael D. Bianco
724-335-6000 (phone)
mikeb@swankco.com

NGE's scope of work for this project included the following:

- Field work coordination including site reconnaissance, drilling supervision and sample logging.
- Drilling of 8 test borings including standard penetration testing and sampling and rock coring.
- Laboratory testing of representative soil and bedrock samples obtained from the test borings.
- Performance of cross-hole sonic logging of the bridge foundations during construction to verify the integrity of the drilled shaft concrete.
- Preparation of a geotechnical engineering report including the following information:
 1. Boring location plan.
 2. A description of the subsurface conditions encountered at the test boring locations including detailed typed boring logs.
 3. Results of the laboratory testing performed to classify the soils and aid in determination of their engineering properties.
 4. Slope stability analysis of planned fill embankments and bridge abutments.
 5. Recommendations for site preparation and earthwork including cut slope design, fill embankment design, and fill placement recommendations.
 6. Geotechnical foundation design recommendations for each bridge substructure unit including foundation type, depth and ultimate resistance of bearing materials.



Purchasing Division
 2019 Washington Street East
 Post Office Box 50130
 Charleston, WV 25305-0130

State of West Virginia
 Centralized Expression of Interest
 02 - Architect/Engr

Proc Folder: 220652

Doc Description: ADDENDUM 1 MOTOR POOL HUNTINGTON TRI-STATE AFRC EOI DESIGN

Proc Type: Central Purchase Order

Issued	Solicitation Closes	Solicitation No	Version
6-06-08	2016-07-06 13:30:00	CEOI 0603 ADJ1600000001	2

RECEIVING LOCATION
 CLERK
 DEPARTMENT OF ADMINISTRATION
 PURCHASING DIVISION
 2019 WASHINGTON ST E
 CHARLESTON WV 25305

ENDORSEMENT
 Vendor Name, Address and Telephone Number:
 Morton Thomas and Associates, Inc.
 300 Summers Street, Suite 1280
 Charleston, West Virginia 25301
 1-400-4952 (phone)
 1-400-4953 (fax)

FOR INFORMATION CONTACT THE BUYER
 Michael Rink
 1-400-558-2402
 michael.g.rink@wv.gov

Signature X *Michael J. Wink* FEIN # 52-0728302 DATE July 6, 2016
 All offers subject to all terms and conditions contained in this solicitation

DIVISION ENGINEERING & FACILITIES ADJUTANT GENERALS OFFICE 17 COONSKIN DR HUNTINGTON WV25311		BUILDING TRADE SPECIALIST KENOVA ARMED FORCES RESERVE CENTER 2194 BOOTH RD KENOVA WV 25530 US	
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Comm Ln Desc	Qty	Unit Issue
Motor Pool Addition Huntington Tri-State AFRC		

Item Code	Manufacturer	Specification	Model #
01508			

Item Description :
 Professional engineering design services to develop construction documents to provide for a Motor Pool addition, located at the Huntington State AFRC, Kenova, WV 25330.

ADJ160000001	Document Phase Final	Document Description ADDENDUM 1 MOTOR POOL HUNTINGTON TRI-STATE AFRC EOI DESIGN	Page 3 of 3
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ADDITIONAL TERMS AND CONDITIONS

See attached document(s) for additional Terms and Conditions

DESIGNATED CONTACT: Vendor appoints the individual identified in this Section as the Contract Administrator and the initial point of contact for matters relating to this Contract.

Timothy Kirk Timothy Kirk, PE, PTOE - Associate
(Name, Title)
Timothy Kirk, PE, PTOE - Associate
(Printed Name and Title)
300 Summers Street, Suite 1280, Charleston, West Virginia 25301
(Address)
304-400-4952 (phone number) / 304-400-4953 (fax number)
(Phone Number) / (Fax Number)
tkirk@amtengineering.com
(email address)

CERTIFICATION AND SIGNATURE: By signing below, or submitting documentation through wvOASIS, I certify that I have reviewed this Solicitation in its entirety; that I understand the requirements, terms and conditions, and other information contained herein; that this bid, offer or proposal constitutes an offer to the State that cannot be unilaterally withdrawn; that the product or service proposed meets the mandatory requirements contained in the Solicitation for that product or service, unless otherwise stated herein; that the Vendor accepts the terms and conditions contained in the Solicitation, unless otherwise stated herein; that I am submitting this bid, offer or proposal for review and consideration; that I am authorized by the vendor to execute and submit this bid, offer, or proposal, or any documents related thereto on vendor's behalf; that I am authorized to bind the vendor in a contractual relationship; and that to the best of my knowledge, the vendor has properly registered with any State agency that may require registration.

A. Morton Thomas and Associates, Inc.
(Company)
Michael J. Wiercinski (Michael Wiercinski, PE, PS - Principal)
(Authorized Signature) (Representative Name, Title)

Michael Wiercinski, PE, PS - Principal
(Printed Name and Title of Authorized Representative)

July 6, 2016
(Date)

304-400-4952 (phone number) / 304-400-4953 (fax number)
(Phone Number) (Fax Number)

STATE OF WEST VIRGINIA
Purchasing Division

PURCHASING AFFIDAVIT

MANDATE: Under W. Va. Code §5A-3-10a, no contract or renewal of any contract may be awarded by the state or any of its political subdivisions to any vendor or prospective vendor when the vendor or prospective vendor or a related party to the vendor or prospective vendor is a debtor and: (1) the debt owed is an amount greater than one thousand dollars in the aggregate; or (2) the debtor is in employer default.

EXCEPTION: The prohibition listed above does not apply where a vendor has contested any tax administered pursuant to chapter eleven of the W. Va. Code, workers' compensation premium, permit fee or environmental fee or assessment and the matter has not become final or where the vendor has entered into a payment plan or agreement and the vendor is not in default of any of the provisions of such plan or agreement.

DEFINITIONS:

"Debt" means any assessment, premium, penalty, fine, tax or other amount of money owed to the state or any of its political subdivisions because of a judgment, fine, permit violation, license assessment, defaulted workers' compensation premium, penalty or other assessment presently delinquent or due and required to be paid to the state or any of its political subdivisions, including any interest or additional penalties accrued thereon.

"Employer default" means having an outstanding balance or liability to the old fund or to the uninsured employers' fund or being in policy default, as defined in W. Va. Code § 23-2c-2, failure to maintain mandatory workers' compensation coverage, or failure to fully meet its obligations as a workers' compensation self-insured employer. An employer is not in employer default if it has entered into a repayment agreement with the Insurance Commissioner and remains in compliance with the obligations under the repayment agreement.

"Related party" means a party, whether an individual, corporation, partnership, association, limited liability company or any other form or business association or other entity whatsoever, related to any vendor by blood, marriage, ownership or contract through which the party has a relationship of ownership or other interest with the vendor so that the party will actually or by effect receive or control a portion of the benefit, profit or other consideration from performance of a vendor contract with the party receiving an amount that meets or exceeds five percent of the total contract amount.

AFFIRMATION: By signing this form, the vendor's authorized signer affirms and acknowledges under penalty of law for false swearing (W. Va. Code §61-5-3) that neither vendor nor any related party owe a debt as defined above and that neither vendor nor any related party are in employer default as defined above, unless the debt or employer default is permitted under the exception above.

WITNESS THE FOLLOWING SIGNATURE:

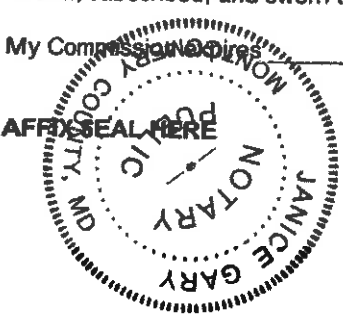
Vendor's Name: A. Morton Thomas and Associates, Inc.
Authorized Signature: *Michael J. Wuel* Date: July 6, 2016

State of Maryland

County of Montgomery, to-wit:

Taken, subscribed, and sworn to before me this 6 day of July, 2016

My Commission Expires 1/12, 2017



NOTARY PUBLIC *Janice Gary*
Purchasing Affidavit (Revised 07/01/2012)

ADDENDUM ACKNOWLEDGEMENT FORM
SOLICITATION NO.: ADJ160000001

Instructions: Please acknowledge receipt of all addenda issued with this solicitation by completing this addendum acknowledgment form. Check the box next to each addendum received and sign below. Failure to acknowledge addenda may result in bid disqualification.

Acknowledgment: I hereby acknowledge receipt of the following addenda and have made the necessary revisions to my proposal, plans and/or specification, etc.

Addendum Numbers Received:

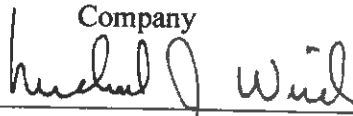
(Check the box next to each addendum received)

- | | |
|--|--|
| <input checked="" type="checkbox"/> Addendum No. 1 | <input type="checkbox"/> Addendum No. 6 |
| <input type="checkbox"/> Addendum No. 2 | <input type="checkbox"/> Addendum No. 7 |
| <input type="checkbox"/> Addendum No. 3 | <input type="checkbox"/> Addendum No. 8 |
| <input type="checkbox"/> Addendum No. 4 | <input type="checkbox"/> Addendum No. 9 |
| <input type="checkbox"/> Addendum No. 5 | <input type="checkbox"/> Addendum No. 10 |

I understand that failure to confirm the receipt of addenda may be cause for rejection of this bid. I further understand that any verbal representation made or assumed to be made during any oral discussion held between Vendor's representatives and any state personnel is not binding. Only the information issued in writing and added to the specifications by an official addendum is binding.

A. Morton Thomas and Associates, Inc.

Company



Authorized Signature

July 6, 2016

Date

NOTE: This addendum acknowledgment should be submitted with the bid to expedite document processing.
Revised 6/8/2012