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Header @ 1 List View

- General Information
- Contact
- Default Values
- Discount
- Document Information
- Clarification Request

Procurement Folder: 1083203  
 Procurement Type: Central Contract - Fixed Amt  
 Vendor ID:    
 Legal Name: CMTA INC  
 Alias/DBA:  
 Total Bid: \$0.00  
 Response Date:    
 Response Time:   
 Responded By User ID:    
 First Name:   
 Last Name:   
 Email:   
 Phone:

SO Doc Code: CEO1  
 SO Dept: 0211  
 SO Doc ID: GSD2300000002  
 Published Date: 8/5/22  
 Close Date: 9/1/22  
 Close Time: 13:30  
 Status: Closed  
 Solicitation Description:

Total of Header Attachments: 1  
 Total of All Attachments: 1



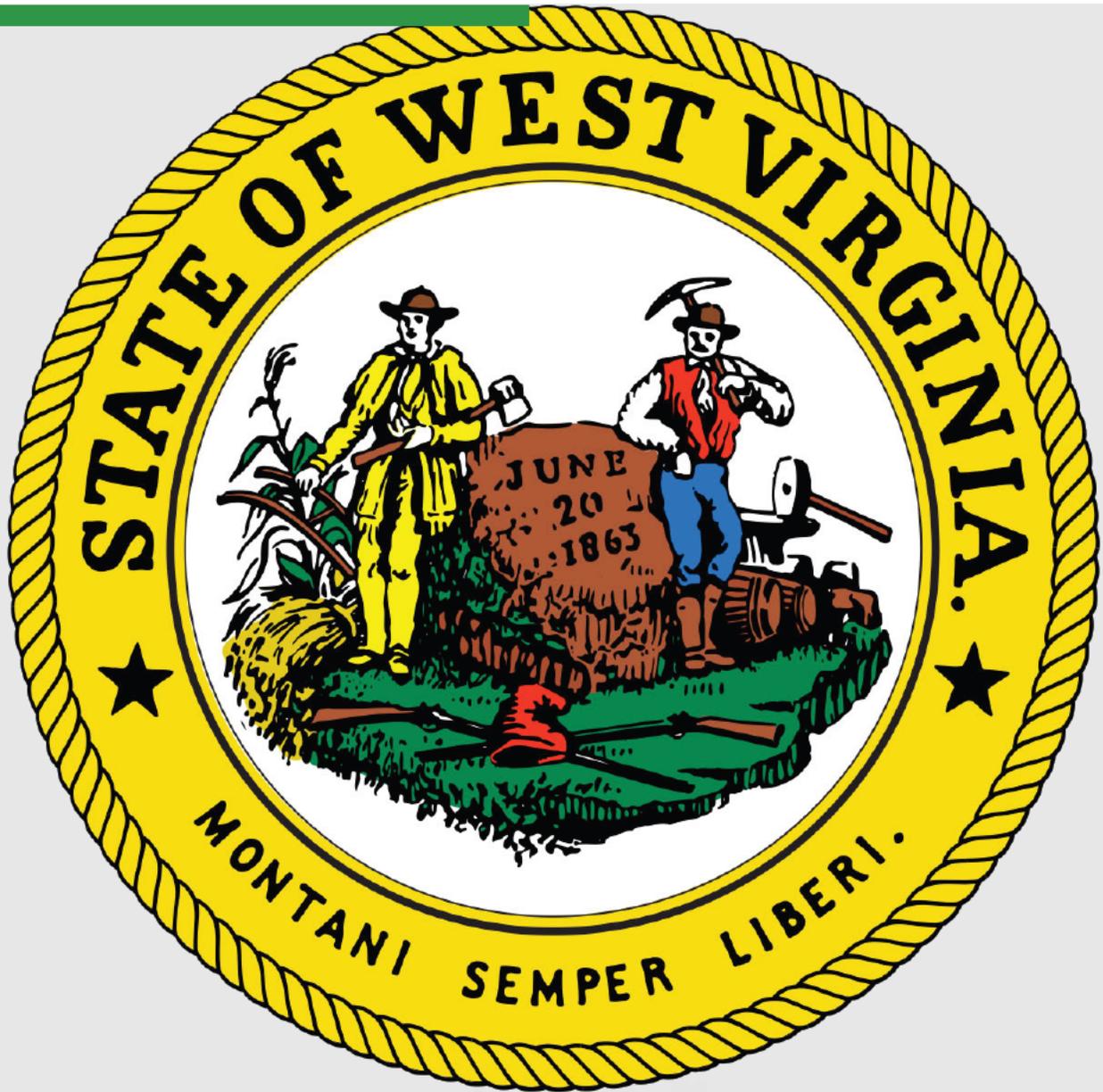
Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
1	EOI: Campus Lighting Design				0.00

Comm Code	Manufacturer	Specification	Model #
81101508			

**Commodity Line Comments:**

**Extended Description:**

EOI: Campus Lighting Design



State of West Virginia  
**Campus Lighting Design Services**

*RFP# | September 2022*



Building Science Leadership



September 1, 2022

Department of Administration  
Purchasing Division  
2019 Washington Street East  
Post Office Box 50130  
Charleston, WV

**Attn: Ms. Melissa Pettrey**

**RE: Solicitation No. CEIO 0211 GSD2300000002 | Campus Lighting Design**

**Dear Ms. Pettrey,**

We are excited and grateful for the opportunity to propose professional Campus Lighting Design services for the State of West Virginia. We understand that the purpose of this project is to provide Design Services to produce specifications and bid documents for exterior lighting upgrades on the Capitol campus areas as designated as East, South and North Campus of Building One (West Virginia State Capitol Building).

We feel CMTA is uniquely qualified to assist the State of West Virginia in making this project a success for several reasons.

CMTA brings the expertise of a 600+ person national engineering firm with the responsiveness, accountability and service of a local partner out of our West Virginia office in Lewisburg. CMTA is a national leader in delivering energy efficient local government buildings. This is not just a generic "marketing" statement; we back it up with real performance data from successful project after successful project throughout our statement of qualifications. The following document highlights the expertise, experience and approach we believe make CMTA an excellent partner to successfully deliver this project.

We would be honored to work with your team on this project and hope you will not hesitate to reach out should you have any questions or need any additional information about our approach.

Sincerely,

A handwritten signature in blue ink, appearing to read "Paula Guffey", set against a black rectangular background.

Paula Guffey, PE  
Principal in Charge  
CMTA West Virginia  
1687 Jefferson St. N, Unit 2, Suite 6  
pguffey@cmta.com  
(703) 380-2117



## The National Leader in Sustainability

Lubber Run Community Center Arlington, Virginia

### CMTA Overview

CMTA is a multi-specialty firm that focuses on building systems engineering that ensures cost effective, energy efficient, high performance buildings. We are true partners who are vested in the long-term success of our buildings, which is measured by exceeding the expectations of building owners and managers, and maintaining the health and comfort of the occupants. In addition to engineering great building systems, at CMTA, we invent products, set national goals, and work to transform the market to improve results for everyone. We define our innovative approach to engineering as ... [Building Science Leadership](#).

We are [Data Driven](#), [Results Proven](#). We have collected over 20 years of actual utility data on our projects that allows us to continually improve our approach. This database and our years of high performance design experience means we understand how to make these buildings a reality without extra first costs. No other firm possesses an energy performance database of this type.

- Mechanical Engineering
- Electrical Engineering
- Plumbing Engineering
- Fire Protection Engineering
- Zero Energy and Renewable Engineering
- Communications and Audio Visual Design
- Technology Infrastructure Design
- Security System Design
- Energy Modeling
- Lighting Design
- Geothermal Engineering
- Construction Administration
- Commissioning Services
- LEED Consulting
- WELL Building Consulting and Certification
- Energy Star Certification
- Sustainability Consulting
- Performance Contracting
- Building Energy Management

### By the Numbers

- 655 Employees
- 31 Offices Nationwide
- 164 PEs
- 9 RCDDs
- 5 Certified GeoExchange Designers
- 27 Certified Energy Managers
- 22 Commissioning Agents
- 108 LEED APs
- 20 WELL APs
- 2 AVIXA Certified Technology Specialists
- Licensed in 49 States, D.C. and Ontario, Canada



# Historical Building Renovations

- UNC Chapel Hill, Hill Hall Auditorium and Rotunda- 1907
- UNC Chapel Hill, Memorial Hall Auditorium- 1931
- UNC Chapel Hill, Dubose House (part of Rizzo Addition project)- 1933
- UNC Greensboro, Aycock Auditorium- 1927
- Academy Center of the Arts, Lynchburg, VA- 1905
- Berea College, Knapp Hall- Berea, KY-1913
- Berea College, Talcott Hall- Berea, KY- 1917
- Berea College, Lincoln Hall- Berea, KY- 1885
- Charlotte-Mecklenburg Carnegie (Main) Library- 1903
- Furman University, Furman Hall – Spartanburg, SC - 1950
- Grand Theatre- Frankfort, KY- 1911
- Harvard University, Massachusetts Hall- 1718
- Lexington Historic Courthouse Renovation- Lexington, KY- 1934
- Lexington History Museum- Lexington, KY- 1846
- Morehead State University, Breckinridge Hall – Morehead, KY- 1892
- Marshall University, Old Main Complex- Huntington, West Virginia- 1868
- National Archives and Records Administration Building- Washington, DC- 1934
- Opera House - Lexington, KY- 1886
- Paramount Arts Center- Ashland, KY- 1931
- Sacred Heart Model School- Louisville, KY- 1924
- Vanderbilt University, Peabody Library- Nashville, TN- 1917
- Western Kentucky University, Van Meter Hall- Bowling Green, KY- 1911



Hill Hall, circa 1907  
UNC Chapel Hill



Memorial Hall, circa 1931  
UNC Chapel Hill



DuBose House, circa 1933  
UNC Chapel Hill



Aycock Auditorium, circa 1927  
UNC Greensboro

## Additional Relevant Experience

- Iwo Jim Memorial, VE Lighting Design | Arlington, VA
- Martin Luther King Memorial Lighting Design | Washington, DC
- Smithsonian Castle Facility Lighting Design | Washington, DC
- Smithsonian Pennsy Center Lighting Design for Laboratories/Storage/Processing | Landover, MD
- Town of Chesapeake Beach Streetscape Lighting | Chesapeake Beach, MD
- Defense Intelligence Agency Museum Lighting | Washington, DC
- Department of Homeland Security, Customs & Border Protection Campus Lighting Design | Ashburn, VA
- Kentucky Statewide LED Lighting | Various Locations, KY

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# Lighting Design Approach

## Lighting Selection & Design

CMTA is not your typical certified lighting designer. Similar to our design process, our team utilizes a very holistic approach, seeking to understand the impact on the building energy consumption and usage. Further, we understand the effects that glare and the full spectrum of lighting can have on the occupant's wellbeing and circadian rhythms.

## More than Your Typical Lighting Designer

We want occupants to feel as if at home — lighting is a large part of creating this inviting atmosphere. By using the latest technology and cost effective strategies, we aim to create a more comfortable, less-institutional feel, while still being functional.

In addition to providing natural daylight, circadian lighting strategies are utilized to help support the sleep health of both patients and staff. This is accomplished by providing high-energy melanopic lighting during the day, and warmer, more soothing lighting after hours.

## Cost Efficiency

By focusing on “right-lighting” spaces and reducing the complexity of the lighting controls, we are able to achieve significant cost savings. Right-lighting is accomplished with extensive light modeling to select the precise light fixtures for each space while optimizing lumen packages to ensure maximum energy savings. Lighting controls are kept simple to avoid frustration while still realizing maximum energy savings and code compliance. These methods deliver a more energy efficient and functional end result without sacrificing aesthetics and visual comfort.



US Department of Homeland Security

# Customs & Border Protection

*Ashburn, Virginia*



## Summary

Cost: \$90,000,000

Size: 390,000 SF

Completed: 2021

Construction Type: Renovation & Addition

Delivery Method: Design Bid Build

## Reference

Gary Schuh

202-306-9956

CMTA provided Site Lighting, Mechanical, Electrical, Plumbing, Information Technology, Audio Visual, and Security Design for the US Customs and Border Protection (CBP), an agency of the U.S. Department of Homeland Security. Due to the recent increased attention that has been placed on the security of the US border, CBP has been faced with massive and rapid expansion. This project was executed to consolidate numerous business units to improve operational and spatial efficiency in a secure location.

The project includes approximately 390,000 sf of office space for the agency as well as over 50,000 sf of specialty spaces including a wet lab, radio lab, emergency operations center, secure facilities, and IT spaces. The building is 100% backed up by standby power generation and mission critical HVAC systems and is designed to a high level of security including both physical security countermeasures as well as state of the art electronic security systems.

Site security improvements include a new perimeter K-rated fence with secure access checkpoints, electronic video surveillance, site lighting design, and relocation of the loading dock for the portion of the building that is not government controlled to minimize traffic through the secure perimeter.

In addition to the interior fit-out of the space, to meet these demanding requirements CMTA designed upgrades to the central plant systems, provided all new HVAC systems and completed the shell design for a portion of the building that was previously only built to cold dark shell condition.

The building includes a number of energy efficient technologies including all LED lighting with daylight harvesting, high efficiency four pipe VAV HVAC systems and an advanced DDC building automation controls platform.



# Smithsonian Institution Pennsy Collections and Support

## Pennsy Collections and Support

Landover, Maryland



### Summary

Cost: \$5,250,000

Size: 64,000 SF

Completed: 2014

Construction Type: Renovation

Delivery Method: Design Bid Build

### Reference

Josh Shaw

703-633-4072

The Smithsonian Institution opened the first phase of the Pennsy Collections in 2008 to support the Smithsonian Institution Libraries, National Museum of American History, and National Museum of African American History and Culture. This 360,000 square foot structure features specialized office and training space, exhibit design and fabrication shops, conservation facilities, and climate-controlled areas to house the Institution's collections. Once an old warehouse on an eight-acre site, the new center adopted needed technical and security requirements. Organized around a community plaza, its design is enhanced by a wayfinding system that creates a sense of community.

CMTA provided full MEP services for a 64,000 square foot, two-phased renovation at the Pennsy Collections. Our engineering designs focused on creating systems for artifact processing and storage, advanced fire detection and suppression, museum temperature and humidity requirements,

cold storage spaces, laboratory exhaust, 100% outside air systems, secure spaces, access control, reverse osmosis / de-ionized water systems, sediment trap, a central neutralization tank, and power drop cord reels.

Phase II featured tenant fit out work to relocate staff from the National Museum of African American History and Culture.

Phase III involved renovating space that required more advanced temperature and humidity-controlled storage, as well as processing and conservation laboratories. Cold storage rooms were designed to house temperature-sensitive items, such as film and photographs. CMTI also developed MEP designs for special waste systems that process hazardous laboratory waste, including a sediment trap upstream of a central neutralization tank.



# McCormick Spice Global Headquarters

Hunt Valley, Maryland



## Summary

Cost: \$125,000,000  
Size: 380,000 SF  
Completed: 2018  
Construction Type: New Facility

## Energy Efficiency

Energy Use Intensity: 38  
Renewable Design: 12,300

## Building Certifications

LEED NC Gold

## Owner Contact

Jason Messersmith  
(410) 527-6159  
Jason\_Messersmith@mccormick.com

McCormick Spice, the global leader in spices and flavorings, contracted CMTA to help plan and execute a new 380,000 square foot headquarters to consolidate over one thousand staff members from four buildings into a single facility.

McCormick's goal for the project was to improve collaboration and communication across its departments and create a facility that represented the brand principles of sustainability, purity, innovation, and passion for flavor. This process started with helping McCormick identify facility needs, set energy and sustainability goals, evaluate different developer proposals, and eventually design and construct a building that is targeting LEED NC Gold certification.

In addition to containing administrative offices, the building has a 30,000 square foot suite of sensory and culinary test kitchens as well as a cafeteria kitchen and dining area, full conference center, on-site

medical center, and stunning "vertical main street" atrium that allows nearly all of the building to take advantage of daylight harvesting.

The building is designed to operate at 38 EUI. Solar domestic water heating and rough-ins for a future 915KW solar photovoltaic parking canopy system will offset over 25% of the predicted annual energy use for the building.

CMTA's Consulting and Commissioning teams worked to make the owner's goals and targets a reality. A CMTA SPHERE virtual building energy dashboard was equipped to the building to allow users to view live energy data and explore the building and its sustainable features.





# Kentucky Transportation Cabinet & Finance Cabinet

## Kentucky Statewide LED Lighting Retrofit

Various Locations, Kentucky



### Summary

Cost: \$24,752,274

Completed: Spring 2022 (96% complete)

Guaranteed Savings: \$2,889,524

Actual Savings: In 1st year of calculations

### Reference

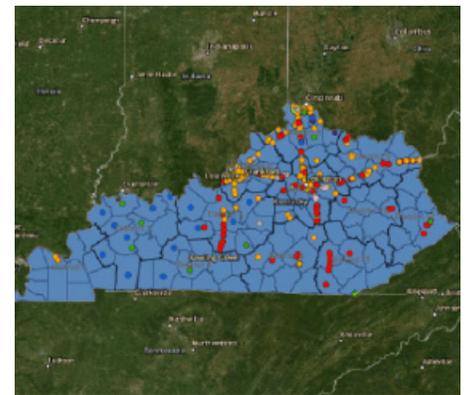
Tim Spencer, Project Manager for the Finance & Administrative Cabinet, Division of Facility Efficiency  
502.782.0350

For this Guaranteed Energy Savings Performance Contract project with the Kentucky Transportation Cabinet (KYTC) and Finance Cabinet, CMTA is retrofitting KYTC-maintained roadway lighting with energy-efficient LED fixtures statewide. The energy savings from the project will pay for the overall cost of the effort in ten years.

Recent advancements to LED-lighting technology have made it advisable to pursue this retrofit effort. The upgrades will reduce the energy consumption of the roadway lighting systems by more than 50 percent, saving tax dollars.

This effort provides the following benefits to KYTC and the public:

- Replacement of state-maintained high-mast (5,780 fixtures) and cobrahead lighting (12,692 fixtures)
- Replacement of lights at state-owned maintenance garages/parking lots (currently 1,573 fixtures)
- Upgraded lighting in Cochrane Tunnel (I-64, Jefferson County, 154 fixtures) and Cumberland Gap Tunnel (US 25-E, Bell County, 824 fixtures)
- More than \$2,800,000 will be saved annually through reduced utility and maintenance costs
- Environmental enhancements due to reduced energy consumption
- Potential safety enhancement due to improved color spectrum (whiter light) and fewer outages
- Longer lasting fixtures will potentially enhance employee safety and create less congestion due to reduced work zones and lane closures for maintenance
- Replacement of problematic cabinets and relocation of poles that are frequently hit
- LED technology will permit the potential use of adaptive lighting/light curfews that could allow for additional savings in the future





# Paula Guffey PE

ROLE: Project Manager / Principal in Charge

## Profile

Ms. Guffey is a Principal and Electrical Engineer at CMTA. She brings over 35 years of multi-disciplinary electrical and mechanical design experience, working on both new construction and renovation projects. She has significant experience in higher education, governmental, industrial, institutional, pharmaceutical, multi-family, commercial, hazardous, power generation and health care facilities.

She is knowledgeable with many specialized aspects of electrical design such as high voltage system distribution and low voltage internal and external communications design. Throughout her career, Ms. Guffey has gained extensive knowledge of renewable energy systems, energy efficient lighting, security lighting, IT infrastructure and general building electrical systems design.

## Role

As Project Manager/Principal in Charge, Ms. Guffey will coordinate with the design team to meet the expectations of the project. She will be responsible for the design of electrical systems and the production of plans and specifications for the electrical systems to ensure the design developed by the team will be executed properly. She will ensure that energy efficient design principles are incorporated into the MEP systems.

## Education

- Bachelor of Science, Electrical Engineering, West Virginia Institute of Technology- 1991

## Registrations

- Licensed Professional Engineer (PE)- Virginia (# [REDACTED]) DC (# [REDACTED]) Maryland (# [REDACTED]) West Virginia (# [REDACTED])

Years Experience: 36

Years with Firm: 11



## Related Projects

### US Department of Homeland Security, Customs and Border Protection

Ashburn, VA

- Renovation & Addition
- Site Lighting Design
- Cost: \$90,000,000
- Size: 390,000 SF
- Completed: 2021

### Smithsonian Institution, Pennsy Collections and Support

Landover, MD

- 64,000 SF
- Renovation
- Lighting Design
- Cost: \$5,250,000
- Completed: 2014

### Town of Chesapeake Beach

Chesapeake Beach, MD

- Streetscape Lighting Design

### Iwo Jima Memorial

Arlington, VA

- Memorial Lighting Design

### Martin Luther King Memorial

Washington, DC

- Memorial Lighting Design

### Defense Intelligence Agency

Washington, DC

- Museum Lighting Design



# Hamid Hashime PE

ROLE: Lead Electrical Engineer

## Profile

Mr. Hashime is an Electrical Engineer at CMTA. He has over 10 years of experience in the consulting engineering field with both new construction and renovation projects.

His experience includes planning and designing power distribution, lighting, communications, fire alarm and security systems for educational, commercial and government facilities. Mr. Hashime's effective ability to coordinate electrical design with other disciplines and the client consistently supports the construction phase and the delivery of project goals. Conversant with NEC, NFPA, IECC, IBC, and ANSI standards, Mr. Hashime is a key team player with high integrity, technically competent and driven to produce high quality design. He has also supervised designers and CAD operators.

## Role

As lead electrical engineer, Mr. Hashime is responsible for the design and assessment of the electrical systems. He is also responsible for the production of plans and specifications for the electrical systems to ensure the design developed by the team is executed properly.

## Education

- Bachelor of Science, Electrical Engineering, University of Virginia- 2008

## Registrations

- Licensed Professional Engineer (PE)- Virginia (# [REDACTED] DC (# [REDACTED])

Years Experience: 14

Years with Firm: 14



## Related Projects

### US Department of Homeland Security, Customs and Border Protection

*Ashburn, VA*

- Renovation & Addition
- Site Lighting Design
- Cost: \$90,000,000
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*Landover, MD*

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- Streetscape Lighting Design

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*Arlington, VA*

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- Memorial Lighting Design

### Defense Intelligence Agency

*Washington, DC*

- Museum Lighting Design