The following documentation is an electronically-submitted vendor response to an advertised solicitation from the *West Virginia Purchasing Bulletin* within the Vendor Self-Service portal at ***wvOASIS.gov***. As part of the State of West Virginia's procurement process, and to maintain the transparency of the bid-opening process, this documentation submitted online is publicly posted by the West Virginia Purchasing Division at ***WVPurchasing.gov*** with any other vendor responses to this solicitation submitted to the Purchasing Division in hard copy format.

Header 1

List View

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

Procurement Folder: 1274101
Procurement Type: Central Contract - Fixed Amt
Vendor ID: 000000186428
Legal Name: HELLMUTH OBATA & KASSABAUM PC
Alias/DBA:
Total Bid: $0.00
Response Date: 11/14/2023
Response Time: 13:08
Responded By User ID: HOKDC
First Name: Sarah
Last Name: Keane
Email: sarah.keane@hok.com
Phone: 202-944-1462

SO Doc Code: CEOI
SO Dept: 0211
SO Doc ID: GSD2400000002
Published Date: 11/7/23
Close Date: 11/14/23
Close Time: 13:30
Status: Closed
Solicitation Description: EOI: New Consolidated State Laboratory Facility Project
Total of Header Attachments: 1
Total of All Attachments: 1

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

State of West Virginia
Solicitation Response

Proc Folder:	1274101
Solicitation Description:	EOI: New Consolidated State Laboratory Facility Project
Proc Type:	Central Contract - Fixed Amt

Solicitation Closes	Solicitation Response	Version
2023-11-14 13:30	SR 0211 ESR11142300000002344	1

VENDOR

000000186428
HELLMUTH OBATA & KASSABAUM PC

Solicitation Number: CEOI 0211 GSD2400000002

Total Bid: 0 **Response Date:** 2023-11-14 **Response Time:** 13:08:32

Comments:

FOR INFORMATION CONTACT THE BUYER
Melissa Pettrey
(304) 558-0094
melissa.k.pettrey@wv.gov

Vendor
Signature X **FEIN#** **DATE**

All offers subject to all terms and conditions contained in this solicitation

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
1	EOI: New Consolidated State Laboratory Facility Project				0.00

Comm Code	Manufacturer	Specification	Model #
81101508			

Commodity Line Comments:

Extended Description:

EOI: New Consolidated State Laboratory Facility Project

Proposal for

STATE OF WEST VIRGINIA, DEPARTMENT OF ADMINISTRATION PURCHASING DIVISON

NEW CONSOLIDATED STATE LAB FACILITY

Solicitation No. CEOI 0211 GSD4200000002 | November 14, 2023

CONTENTS

November 14, 2023

West Virginia Department of Administration, Purchasing Division
Buyer: Melissa Pettrey, Senior Buyer

RE: 1274101 EOI: New Consolidated State Laboratory Facility Project

On behalf of the HOK team we are excited to submit our proposal for the New Consolidated State Laboratory Facility in South Charlston, West Virginia. A project of this importance to the State of West Virginia requires a seasoned team of experts to ensure its success, and we believe our team is simply the best choice, having designed more than a dozen projects for agencies focused on public health and safety in the past fifteen years. As expertise-based architectural and engineering practices, HOK and AEI are at the top of the industry in designing Public Health facilities, and many of the projects highlighted in our proposal were designed collectively by this team.

HOK brings very specific current experience to joint lab facilities. This team specifically has worked with the FBI for decades, NIH for more than a decade, designed and built the EPA's headquarters as well as major projects for the USDA as well. Two of our most relevant projects are the New Jersey Public Health and Environmental Agricultural Laboratory (NJPHEAL) which was a marriage between the Dept. of Health and the Dept. of Agriculture and DC Consolidated Forensics Laboratory which consolidated Forensics, Public Health and the Office of Medical Examiner under one LEED Platinum roof. We would welcome the opportunity to tour you through both facilities as they are great examples of modern and flexible public safety/health labs.

We know that these facilities are precious to the directors and people that run them. They are critical to the success of governments to provide some of the most basic services that of society depends on: provisions for a healthy population, maintenance of public safety, and the faithful execution of the law. Yet they are frequently underfunded and in improper facilities due to the nature of how their missions grow and change over time while their facilities do not. It is part of why we find these projects to be such rewarding projects: we are proud of the impact we can have enabling the people who have dedicated their careers to the people of West Virginia will have a safe and functional space to do their work.

The programming and design of your new building is by no means an easy task given the need to marry at least six different State entities under one roof with a limited budget. We will work together with all of these entities to find the synergies between the programs to make an efficient programmatic building yet be respectful of all the specific needs of each department. The programming solution that is a result of this effort at the very beginning of this project will be one of the keys to success. Having an outstanding experienced Science &Technology team of designers, architects, and lab planners alongside your team is what you need. Knowing that the people dedicating their careers to the people of West Virginia will have a safe and functional lab to do their work is critical.

We look forward to the opportunity to collaborate with all of the agencies on this milestone project. Working together, I am confident we will deliver an outstanding building which will meet the needs of the residents of West Virginia for the foreseeable future.

Thank you again for your consideration.

Aaron Altman, AIA, LEED AP BD+C
Principal in Charge
aaron.altman@hok.com
+1 202-944-1548

TEAM OVERVIEW

STAFFING PLAN

HOK confirms the individuals listed on this org chart will be committed to the client for the duration of this project. Resumes for the Core Design Team are included in the pages to follow.

STATE OF WEST VIRGINIA, DEPARTMENT OF ADMINISTRATION PURCHASING DIVISON

MANAGEMENT TEAM

Aaron Altman AIA, LEED AP BD+C
Principal in Charge

Wayne Nickles AIA, LEED AP
Project Manager

DESIGN TEAM

Roger Schwabacher AIA, LEED AP BD+C
Project Designer

Carrie Hsu, AIA, LEED AP
Project Architect

Tim O'Connell, AIA, LEED AP BD+C
Science + Technology
Subject Matter Expert

Damon Sheppard, AIA, LEED AP BD+C
Project Programmer / Planner

Jack Baker, AIA, LEED AP BD+C
Lab Planner

CONSULTANT TEAM

AEI
MEP Engineer

Kimley Horn
Civil Engineer

MBP
Cost Estimator / Commissioning

Jensen Hughes
Fire Protection / Life Safety Consultant

NV5
Technology / Security / Acoustics

Colin Gordon
Vibration Consultant

Michael Blades
Vertical Transportation

RWDI
Wind / Wake Consultant

**Specialty Services as Required : Shielding , Envelope, ATFP

AARON ALTMAN, AIA, LEED AP BD+C

PRINCIPAL IN CHARGE

Aaron has 27 years of experience in architecture and design, working on a number of large, complex projects such as governmental offices, laboratories, and airport terminals. As Principal in Charge, he conducts concept, schematic, design development and contract document work sessions, maintains client relationships throughout project, communicates with consultants and contractors, manages project budget, work plans, consultants and schedule, and develops detailed project schedules and communicates key deliverable dates to the project team.

EDUCATION

University of Kansas
Bachelor of Architecture

PROFESSIONAL REGISTRATIONS

Architect: Maryland
LEED Accredited Professional, Building Design + Construction

MEMBERSHIPS

American Institute of Architects
U.S. Green Building Council

SELECT EXPERIENCE

1. DC Consolidated Forensic Laboratory
Washington, DC

2. National Institutes of Health Surgery, Radiology, Laboratory Medicine Building
Bethesda, Maryland

3. Confidential Department of Justice Forensics Laboratory
Confidential Location

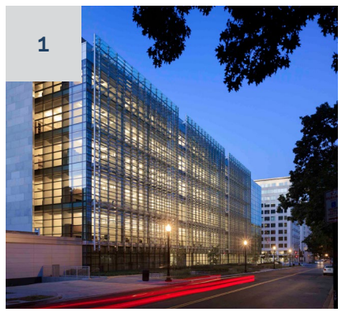
Confidential Department of Justice AEP IDIQ Contract
Confidential Location

Confidential Department of Justice Forensics Laboratory
Quantico, Virginia

National Institutes of Health Unrestricted Specialized A/E Services, IDIQ Contract (35 Task Orders)
Bethesda, Maryland

Confidential Biopharmaceutical Company
Cambridge, Massachusetts

Confidential Department of Justice Interim Forensic Laboratory
Lorton, Virginia



WAYNE NICKLES, AIA, LEED AP

PROJECT MANAGER

Wayne has more than 20 years of experience working on complex projects from programming through construction, with a particular focus on the science and technology market. He has an extensive technical knowledge of architectural systems that is supported by a keen eye for design excellence and a firm understanding of engineering and sustainable design principles. Wayne utilizes these skills to produce well-coordinated projects in which all systems are integrated into a unified design.

EDUCATION

Carnegie Mellon University
Bachelor of Architecture

PROFESSIONAL REGISTRATIONS

Architect: Maryland, Pennsylvania, Virginia, West Virginia(License Pending)
LEED Accredited Professional

MEMBERSHIPS

American Institute of Architects
U.S. Green Building Council

SELECT EXPERIENCE

1. UPMC Mercy Pavilion
Pittsburgh, Pennsylvania

2. AstraZeneca California Consolidation
South San Francisco, California

3. Confidential Biopharmaceutical Company Area 6, Levels 5 And 6
Gaithersburg, Maryland

National Institutes of Health Grants Review
Various Locations

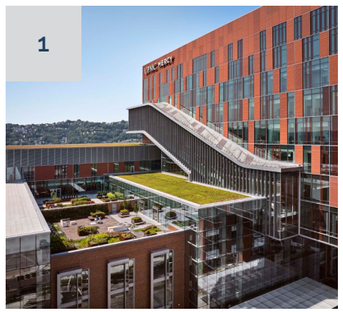
QIAGEN North American HQ
Germantown, Maryland

Confidential Biopharmaceutical Company, Master Plan
Gaithersburg, Maryland

AstraZeneca Kendall Square R+D Hub
Cambridge, Massachusetts

Confidential Biopharmaceutical Company Cell Therapy Suite
Gaithersburg, Maryland

Confidential Biopharmaceutical Company ADC Lab
Gaithersburg, Maryland



TIM O'CONNELL, AIA, LEED AP BD+C

SCIENCE + TECHNOLOGY SUBJECT MATTER EXPERT

Tim O'Connell is a Senior Principal and Firmwide Director of HOK's Science + Technology group. With over 20 years of architectural experience, he has served as Lab Planner, Lab Architect, Project Manager and Project Architect on many of HOK's complex Science + Technology projects including the LEED-NC Platinum DC Consolidated Forensic Laboratory Facility, which was also the recipient of the 2013 R&D Lab of the Year Special Mention Award for Collaborative Science. A thought leader for Government Public Health + Safety facilities, Tim combines subject matter expertise with a distinct ability to communicate and collaborate with multifaceted government agencies.

EDUCATION

Pratt Institute
Bachelor of Architecture

PROFESSIONAL REGISTRATIONS

Registered Architect: DC, Maryland, Massachusetts, North Carolina
LEED Accredited Professional
NCARB Certified

MEMBERSHIPS

American Institute of Architects

SELECT EXPERIENCE

1. DC Consolidated Forensic Laboratory
Washington, DC

2. San Francisco Crime Laboratory
San Francisco, California

3. National Institutes of Health Unrestricted Specialized A/E Services, IDIQ Contract (35 Task Orders)
Bethesda, Maryland

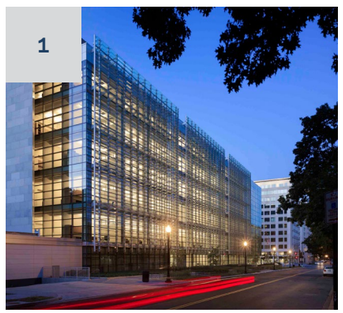
Confidential Department of Justice Forensics Laboratory
Confidential Location

National Oceanic and Atmospheric Administration National Center for Weather and Climate Prediction
Riverdale Park, Maryland

National Institutes of Health Surgery, Radiology, Laboratory Medicine Building
Bethesda, Maryland

Confidential Biopharmaceutical Company
Cambridge, Massachusetts

UPMC Mercy Pavilion
Pittsburgh, Pennsylvania



ROGER SCHWABACHER, AIA, LEED AP BD+C

PROJECT DESIGNER

Roger is the design principal in HOK's Washington, D.C., studio. His experience includes architectural, urban and sustainable design for a wide range of building types including government, corporate, higher education, commercial office, healthcare, science + technology, hospitality, civic + cultural, retail and residential. Roger's work has earned numerous awards and has been published in various publications including Architectural Record and The Washington Post. Roger is a member of HOK's global design board, the University of Maryland School of Architecture Board of Visitors, the American Institute of Architects and the U.S. Green Building Council.

EDUCATION

University of Maryland
Master of Architecture

Northwestern University
Bachelor of Arts

PROFESSIONAL REGISTRATIONS

Registered Architect: DC
LEED Accredited Professional

MEMBERSHIPS

American Instiute of Architects
U.S. Green Building Council

SELECT EXPERIENCE

1. National Oceanic and Atmospheric Administration National Center for Weather and Climate Prediction
Riverdale Park, Maryland

2. NIH Surgery, Radiology and Laboratory Medicine Building
Bethesda, Maryland

3. UPMC Mercy Pavilion
Pittsburgh, Pennsylvania

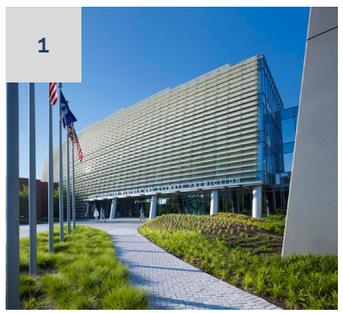
National Institutes of Health Unrestricted Specialized A/E Services, IDIQ Contract (35 Task Orders)
Bethesda, Maryland

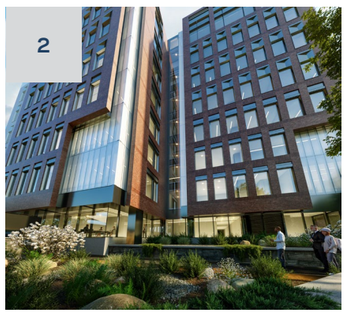
Confidential Department of Justice AEP IDIQ Contract
Confidential Location

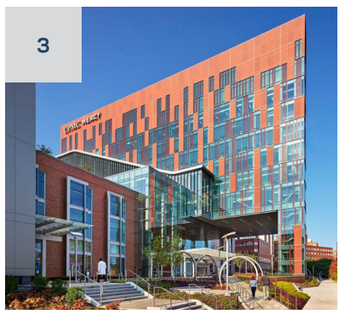
University of Maryland, Baltimore Health Sciences Facility III
Baltimore, Maryland

US Pharmacopeia Headquarters
Rockville, Maryland

Carnegie Science Ecology & Life Sciences Building
Pasadena, California







CARRIE HSU, AIA, LEED AP

PROJECT ARCHITECT

Carrie is a Project Architect, with over 20 years of experience. She is typically involved in a range of project aspects, from the layout and selection of medical equipment, to design development, production of contract documents and construction administration. Carrie has worked on a wide range of projects in a variety of markets including commerical, higher education, scientific laboratories and government spaces.

EDUCATION

Virginia Polytechnic Institute & State University
Bachelor of Architecture

PROFESSIONAL REGISTRATIONS

Registered Architect: DC, Maryland
LEED Accredited Professional

MEMBERSHIPS

American Instiute of Architects
U.S. Green Building Council

SELECT EXPERIENCE

1. DC Consolidated Forensic Laboratory
Washington, DC

2. National Institutes of Health Unrestricted Specialized A/E Services, IDIQ Contract (35 Task Orders)
Bethesda, Maryland

3. Confidential Department of Justice Forensics Laboratory
Confidential Location

University of Maryland, Baltimore Health Sciences Facility III
Baltimore, Maryland

Memorial University of Newfoundland
MUN Core Science Facility
St. John's, Newfoundland, Canada

GlaxoSmithKline
Collegeville, Pennsylvania

The National Institutes of Health
B10 Atrium Infill
Bethesda, Maryland

AstraZeneca
Kendall Square R+D Hub
Cambridge, Massachusetts

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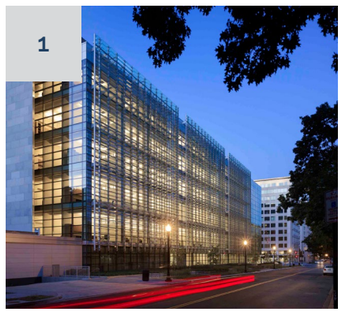

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DAMON SHEPPARD, AIA, LEED AP BD+C

PROJECT PROGRAMMER / PLANNER

Damon is the Regional Leader of Science + Technology for HOK's Washington, D.C., studio and a firm-wide thought leader for the design of higher education science facilities. He has dedicated his career to programming, planning, and designing transformational facilities for higher education, corporate life science, and institutional clients. He has a particular strength in developing innovative methods to program facilities where diverse scientific users learn, research, and collaborate. He is co-chair of HOK's Diversity Advisory Council, a national board of directors member for the ACE Mentoring Program, and a SCUP Mid-Atlantic Regional Council member.

EDUCATION

Howard University
Bachelor of Architecture

PROFESSIONAL REGISTRATIONS

Registered Architect: DC, Maryland
LEED Accredited Professional

MEMBERSHIPS

American Instiute of Architects
U.S. Green Building Council
National Organization of Minority Architects

SELECT EXPERIENCE

1. DC Consolidated Forensic Laboratory
Washington, DC

2. Morgan State University Behavioral and Social Sciences Center
Baltimore, Maryland

3. University of Maryland Baltimore Health Sciences Facility III
Baltimore, Maryland

National Institutes of Health Unrestricted Specialized A/E Services, IDIQ Contract (35 Task Orders)
Bethesda, Maryland

Confidential Biopharmaceutical Client
Cambridge, Massachusetts

ACell Expansion
Columbia, Maryland

Morgan State University Health and Human Services Center
Baltimore, Maryland

George Washington University, Corcoran Hall Renovation
Washington, DC

*USACE Fort Detrick Auditorium and Training Center
Frederick, Maryland

1

2

3

**experience prior to joining HOK*

JACK BAKER, AIA, LEED AP BD+C

LAB PLANNER

Jack Baker, Laboratory Planner/Project Architect, has programmed, designed and managed the construction of a wide range of highly complex scientific research and workspace projects for public and private clients. Most recently, Jack has worked as a Laboratory Architect as part of HOK's IDIQ with NIH. In this role, Jack has designed cleanroom space for the Clinical Center Pharmacy, a new Radiopharmacy for the Department of Nuclear Medicine and over 200,000 sq. ft. of laboratory and office space for the new Surgery, Radiology and Laboratory Medicine Building.

EDUCATION

University of Maryland,
Master of Architecture
Collegeof William & Mary,
Bachelor of Art, Fine Arts

PROFESSIONAL REGISTRATIONS

Registered Architect: DC, Maryland
Architect: Washington, DC
LEED Accredited Proessional,
Building Design + Construction

MEMBERSHIPS

American Institute of Architects
U.S. Green Building Council

SELECT EXPERIENCE

1. DC Consolidated Forensic Laboratory
Washington, DC

2. NIH Surgery, Radiology and Laboratory Medicine Building
Bethesda, Maryland

3. Confidential Department of Justice Forensics Laboratory
Confidential Location

Confidential Biopharmaceutical Company Area 6, Levels 5 And 6
Gaithursburg, Maryland

National Institutes of Health Unrestricted Specialized A/E Services, IDIQ Contract (35 Task Orders)
Bethesda, Maryland

Elanco Eli Lilly Relocation
Gaithersburg, Maryland

ACell Lab Expansion
Columbia, Maryland

Moderna
Various Locations

LUCY LOUKANOVA, PE

AEI | MEP PRINCIPAL

Throughout her 20+ year tenure, Lucy has worked on a variety of projects for research and development, federal, higher education, infrastructure and healthcare clients. Lucy's experience includes coordinating activities of design team members, layout, completing plans and specifications, performing load calculations, selecting mechanical equipment and performing surveys of project sites. She works closely with other disciplines to coordinate mechanical requirements with architectural and structural designs.

EDUCATION

University of Architecture, Civil Engineering, and Geodesy
Master of Science
Water Supply and Sewerage

PROFESSIONAL REGISTRATIONS

Registered Professional Engineer: MD

SELECT EXPERIENCE

US Department of Homeland Security - National Bio and Agro Defense Facility (NBAF) -
Manhattan, Kansas

US Army Corps of Engineers, Baltimore District - Public Health Command - Aberdeen Proving Grounds, Maryland
Grounds, Maryland

US Army Corps of Engineers, Baltimore District - Medical Research Institute of Chemical Defense (MRICD) - Aberdeen Proving Grounds, Maryland
Grounds, Maryland

National Institutes of Health - A/E Services to Renovate Building 10 E-Wing
Bethesda, Maryland

SAMUEL BUTZER, PE, LEED AP, NCEES

AEI | MECHANICAL ENGINEER

Samuel has extensive design experience in HVAC, piping/plumbing (mechanical, industrial, laboratory, medical gas), fire protection, and electrical systems for a wide range of building types. His background in design-build engineering, 3D design, and BIM coordination provides him with extensive experience in MEP system constructability, allowing him to serve as a leader at the integration of all construction disciplines and numerous building types. Samuel's expertise also includes commissioning, retrocommissioning, and energy modeling.

EDUCATION

University of Wisconsin-Madison
Bachelor of Science,
Mechanical Engineering
Madison Area Technical College
Associate of Science, Liberal Arts

PROFESSIONAL REGISTRATIONS

Registered Professional Engineer: KY VA, WI, WV
LEED Accredited Professional
National Council of Examiners for Engineering and Surveying

SELECT EXPERIENCE

City of Charleston – Charleston Coliseum & Convention Center
Charleston, West Virgina

Marshall University – Smith Hall
Huntington, West Virgina

Confidential Healthcare Client – Cole Eye Institute Expansion
Cleveland, Ohio

Cornell University Multi-Disciplinary Building
Ithaca, New York

Usona Institute – Research & Training Campus
Madison, Wisconsin

MICHELLE BLOSHTEYN, PE, LEED AP

AEI | MECHANICAL ENGINEER

Michelle has more than 28 years of experience as a professional engineer. Throughout her career, she has been responsible for the design and project management of mechanical systems associated with a variety of facility types including higher education, healthcare, research, and federal. Michelle's experience includes providing analysis and design of HVAC systems including load calculations, equipment/material selection, layout, sizing, control and other design considerations associated with a particular project.

EDUCATION

University of Maryland
Master of Science Mechanical Engineering
University of Michigan
Bachelor of Science Mechanical Engineering

PROFESSIONAL REGISTRATIONS

Registered Professional Engineer: MD, VA, DC
LEED Accredited Professional

SELECT EXPERIENCE

Howard University - New Stem Complex Programming & Design Services
Washington, DC

National Institutes of Health - A/E Services to Renovate Building 10 E-Wing
Bethesda, Maryland

United States Naval Academy - Center For Cyber Security Studies
Annapolis, MD

CHAD DUNBAR, PE

AEI | ELECTRICAL ENGINEER

Chad is a registered professional engineer with more than 20 years of diverse project experience in the industry involving healthcare, research laboratory, low- and high-rise commercial/office buildings, mixed use retail, higher education, radio/television broadcast, and state/federal government facilities. Chad is experienced in building level power distribution, emergency power systems, interior/exterior lighting design and illumination calculations, lightning protection systems, fire alarm design, telecom pathways infrastructure design, and critical operations power systems (COPS) facility design.

EDUCATION

Georgia Institute of Technology
Bachelor of Science, Electrical Engineering,

PROFESSIONAL REGISTRATIONS

Registered Professional Engineer: MD, VA, DC

SELECT EXPERIENCE

Howard University - New Stem Complex Programming & Design Services
Washington, DC

National Institutes of Health - A/E Services to Renovate Building 10 E-Wing
Bethesda, Maryland

University Of Maryland Medical Center - Comprehensive Clinical Cancer Center - Roslyn And Leonard Stoler Center For Advanced Medicine
Baltimore, Maryland

US Army Corps Of Engineers - Walter Reed Army Institute Of Research Building 501 Vaccine Facility,
Silver Spring, Maryland

SIMBAT MOVSESSIAN

AEI | PLUMBING CONSULTANT

Simbat has experience in designing plumbing and fire protection systems that include the renovation and new construction of laboratories, higher education, health science and institutional facilities. He is skilled in designing/calculating various plumbing systems including domestic water, sanitary waste and vent, storm, fuel-oil and fuel-gas, medical gas, pure water and fire protection and other specialty systems as required. Simbat is the head of AEI Metro DC's plumbing department and has a unique combination of technical, management, and client relation skills to bring together any type of project from start to finish.

EDUCATION

Northern Virginia Community College
Plumbing and Fire Protection Design
Montgomery College
Computer Hardware Technology and Programming
Polytechnic University, Tehran
Bachelors of Science and Engineering Studies

SELECT EXPERIENCE

University of Pittsburgh
Mid Campus Complex
Pittsburgh, Pennsylvania

US Army Corps of Engineers,
Baltimore District - Public Health Command - Aberdeen Proving
Grounds, Maryland

US Army Corps of Engineers, Baltimore District - Walter Reed Army Institute of Research Building 501 Vaccine Facility
Grounds, Maryland

US Department of Homeland Security - National Bio and Agro Defense Facility (NBAF) -
Manhattan, Kansas

BLAINE LINKOUS, PE, LEED AP

KIMLEY HORN | CIVIL ENGINEER

Blaine has 25 years of managing civil engineering and construction projects. He has worked on a wide variety of civil, environmental, and water resources projects, including numerous projects for roadway, building and site design, stormwater, wastewater, water supply, and drainage facilities in the Mid-Atlantic and other government entities.

EDUCATION

University of Texas
Master of Science, Environmental and Water Resources Engineering
University of Virginia
Bachelor of Arts, Environmental Sciences, Hydrology,

PROFESSIONAL REGISTRATIONS

Professional Engineer: WV, MD, VA, TX, PA, NY, NC, DE, ME, DC, LA, MA
LEED Accredited Professional

SELECT EXPERIENCE

Loyola University,
Donnelly Science Center
Baltimore, Maryland

Wal-Mart, Pavement Management and SWPPP Specification and Manual for Supercenter
Fairmont, West Virginia

City of Morgantown, Trail Design and Flood Study
Monongalia,West Virginia

Lonza Walkersville, Civil Master Services Agreement, Shipping and Receiving Lot Improvements, Site Surveys, Master Plan
Frederick County, Maryland

MacroGenics, Facility Renovation
Rockville, Maryland

University of Maryland, Baltimore, Campus Center
Baltimore, Maryland

KRISTEN YOUNG, PE, CEP, LEEP AP

MBP | COST ESTIMATOR

Kristen has extensive experience providing cost estimating services to various government and private clients. She has served as senior cost estimator, quality control consultant, and project manager. She also brings experience in a variety of types of construction including facilities assessments, new construction and renovation of secure facilities, healthcare, and more. She has significant experience, not only in developing full project estimates at all levels of design, but also estimating and negotiating complex change orders.

EDUCATION

The Pennsylvania State University, Masters of Engineering, Construction Management
The Pennsylvania State University, Bachelors of Engineering, Construction Management

PROFESSIONAL REGISTRATIONS

Professional Engineer: MD
Certified Estimating Professional
LEED Accredited Professional

SELECT EXPERIENCE

National Institutes of Health
Surgery, Radiology, Laboratory Medicine Building
Bethesda, Maryland

Virginia Commonwealth University Health System Molecular Diagnostics Lab CE
Richmond, VA

Central Utility Plant (CUP) Chiller Replacement, National Institutes of Health
Bethesda, MD

DONALD SCHILDT, JR., PE

JENSEN HUGHES | FIRE + LIFE SAFETY CODE CONSULTANT

Donnie provides system design, review, and code consulting services and acts as the authority having jurisdiction (AHJ) for several Federal government agencies. His experience focuses on the US Army Corps of Engineers (USACE) and Veterans Administration (VA) facilities. Donnie is well versed in nationally recognized codes and standards such as National Fire Codes, International Building and Fire Codes, Unified Facility Criteria (primarily UFC 3-600-01) and the VA Fire Protection Design Manual.

EDUCATION

University Of Maryland
Bachelor Of Science
Fire Protection Engineering

PROFESSIONAL REGISTRATIONS

PE: WV, DE, MD, SC, VA

SELECT EXPERIENCE

Joint School Of Nanoscience + Nanoengineering (JSNN),
Gateway Research Park
Greensboro, North Carolina

National Institutes Of Health (NIH)
Division Of The Fire Marshal
Various Locations, Maryland

Integrated Research Facility,
New BSL Facility
Fort Detrick, Maryland

GREGORY P. CLARK, CTS

NV5 | TECHNOLOGY PRINCIPAL

Greg brings veteran and specialized experience in all aspects of project management and delivery. With over 25 years of industry consulting and design for hundreds of projects worldwide, he offers significant depth on corporate workplace projects requiring technologies that improve productivity and collaboration. Greg's credentials span dozens Fortune 500 headquarters plus consultation on millions of square feet of multi-use, high-end residential, higher education, hospitality, institutional, and government projects.

EDUCATION

University of Hartford
Bachelor of Science, Acoustic and Music Engineering

PROFESSIONAL REGISTRATIONS

Certified Technology Specialist by AVIXA

SELECT EXPERIENCE

State Of West Virginia
Capitol Building 4
Charleston, West Virginia

West Virginia Capitol Building
Historic Renovation
Charleston, West Virginia

Ohio Development Authority
Highlands Assembly Hall
Wheeling, West Virginia

Codiak Biosciences
New Headquarters
Cambridge, Massachussetts

United States Department Of
Agriculture Animal And Plant Health
Inspection Service Facility
Ames, Idaho

JOSEPH P. HAMMETT, CTS-D

NV5 | AV CONSULTANT

Joe excels at designing high-impact visual environments featuring cutting-edge technology. He brings a special passion for next generation learning facilities, libraries, and student centers. Joe's core strengths include space planning, visioning, master planning, and developing technology standards. Joe's portfolio now spans a broad spectrum of projects including higher education, corporate, healthcare, entertainment, K-12, and performance venues.

EDUCATION

The Pennsylvania State University,
Theatre Production Studies

PROFESSIONAL REGISTRATIONS

Certified Technology Specialist - Design by AVIXA

SELECT EXPERIENCE

West Virginia University
College Of Law
Morgantown, West Virginia

Moderna, Inc.
Global Headquarters
Cambridge, Massachusetts

University Of Virginia
Physical And Life Sciences
Research Building
Charlottesville, Virginia

George Mason University
Exploratory Hall Science,
Technology, And Engineering
Building
Fairfax, Virginia

Howard Community College
Science Engineering & Technology
Building
Columbia, Maryland

JASON D. WHITFIELD, RCDD

NV5 | IT/TELECOM AND SECURITY CONSULTANT

Jason brings insight gained from his years of prior experience as an installation manager. Assignments span Telecommunications Distribution Cabling and Infrastructure Design, Security System Design and Audiovisual Design for Higher Education, Healthcare, Corporate, Government, K-12, Residential, Retail, and Mixed-Use projects. Jason's breadth of experience was called upon in the development of BICSI's Fourth Edition of the Electronic Safety and Security Design Reference Manual.

EDUCATION

Point Park University
Bachelor of Science, Business Management, Concentration in Electrical Engineering Technology

PROFESSIONAL REGISTRATIONS

Registered Communications Distribution Designer by BICSI

SELECT EXPERIENCE

Children's Hospital Of
Philadelphia Schuylkill Avenue
Research Building
Philadelphia, Pennsylvania

Moderna, Inc.
Global Headquarters
Cambridge, Massachusetts

Pennsylvania State Police *
Crime Laboratory
Pennsylvania

United States Government
National Science Foundation
Washington, DC

Morgan State University
Health And Human Services Center,
Baltimore, Maryland

RUTGERS UNIVERSITY
MEDICAL SCIENCE BUILDING
PHASE II
Newark, New Jersey

RACHEL PARLOCK, INCE BD, LEED GREEN

NV5 | ACOUSTICAL CONSULTANT

An award-winning acoustician, Rachel combines a formal mathematics and mechanical engineering education with her diverse array of experience with issues such as room acoustics, sound isolation, and the mitigation of environmental, industrial and transportation-related noise. Rachel knows how to balance functional, aesthetic, and budgetary goals to increase acoustical comfort levels in corporate, higher education, healthcare and entertainment environments.

EDUCATION

The Pennsylvania State University,
Masters of Engineering,
Construction Management
The Pennsylvania State University,
Bachelors of Engineering,
Construction Management

PROFESSIONAL REGISTRATIONS

Institute of Noise Control Engineering
Board Certified
LEED Green Assocociate

SELECT EXPERIENCE

UPMC
Hoechstetter Laboratory
Renovation
Pittsburgh, Pennsylvania

Lockheed Martin Corporation
Noise And Vibration Control For
Cleanroom And Research
Laboratories
Owego, New York

College Of William & Mary
Integrated Science Center 4
Williamsburg, Virginia

University Of Kentucky
Health Education Building
Lexington, Kentucky

State Of Oklahoma
Capitol Building Renovation
Oklahoma City, Oklahoma

STEPHEN JAEGER, PE

COLIN GORDON ASSOCIATES | VIBRATION CONSULTANT

Stephen has over 30 years of experience in noise control consulting and acoustics research and has been with Colin Gordon Associates (CGA) since 2003. Stephen is also a California-licensed Mechanical Engineer. His consulting activities at CGA have focused upon acoustical design, noise control, vibration control, vibration and noise measurements, and environmental acoustics for high-technology facilities including semiconductor fabs and university laboratories.

EDUCATION

Texas A&M University
Master of Science,
Aerospace Engineering
Texas A&M University
Bachelor of Science,
Aerospace Engineering

PROFESSIONAL REGISTRATIONS

Professional Mechanical Engineer: CA

SELECT EXPERIENCE

San Francisco Forensic Science Lab Building
San Francisco, California

The Pennsylvania State University Chemical & Biomedical Engineering Building
University Park, Pennsylvania

Rowan University/Rutgers Camden Joint Health Sciences Center
Camden, New Jersey

Emory University
Health Sciences Research Building II
Atlanta, Georgia

National Institutes of Health
Surgery, Radiology & Lab Medicine Building
Bethesda, Maryland

GlaxoSmithKline
Project Hawk Vaccines HQ for GSK
Cambridge, Massachusets

B. MICHAEL BLADES

MICHAEL BLADES & ASSOCIATES | VERTICAL TRANSPORTATION CONSULTANT

Mike possesses more than 40 years of experience in the vertical and horizontal transportation industries. For the past 32 years he has specialized in vertical transportation consulting exclusively. He has consulted on commercial, retail, industrial, residential, health care, gaming and hospitality projects throughout the world. In fact, he has been directly involved in over 11,000 elevator and escalator projects.

EDUCATION

University of Maryland
Bachelor of Science in Business Administration
National Elevator Industry Educational School Chesapeake College
Business Administration

Frostburg State University
Management

SELECT EXPERIENCE

Morgan State University Health and Human Services Center
Baltimore, Maryland

1801 K Street
Washington, DC

9501 Key West Avenue
Rockville, Maryland

1771 N Street
Washington, DC

Twinbrook ObB & Residential
Rockville, Maryland

Old Post Office Pavillion
Washington, DC

Washington Harbour
Washington, DC

RUTH MCMATH

RWDI | EXHAUST DISPERSION CONSULTANT

Ruth is an experienced exhaust dispersion specialist who supports our clients' building performance objectives by using wind tunnel and numerical dispersion modeling methods to find the optimal design solutions. Ruth has earned a reputation for big-picture thinking: situating her own work in the wider project architecture to ensure outstanding overall outcomes. Combining deep expertise in wind flows around buildings and exhaust re-entrainment with excellent communication skills and practical insights, Ruth contributes not only to her projects' technical excellence but to the smoothness of their execution.

EDUCATION

University of Guelph
Master of Science, Physical Geography
University of Guelph
Bachelor of Science,Environmental Geography

SELECT EXPERIENCE

Ryerson Centre for Urban Innovation
Toronto, Ontario

University of Cincinnati Chemistry
Cincinnati, Ohio

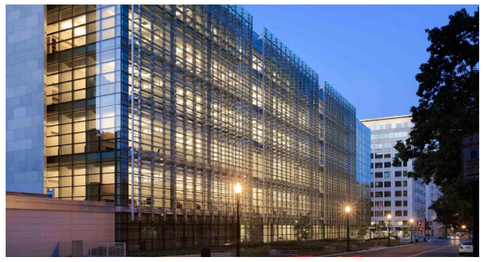
Seattle Children's Hospital
Project Copper
Seattle, Washington

Harvard Enterprise Research Campus
Boston, Massachusetts

King Abdullah University of Science and Technology
Saudi Arabia

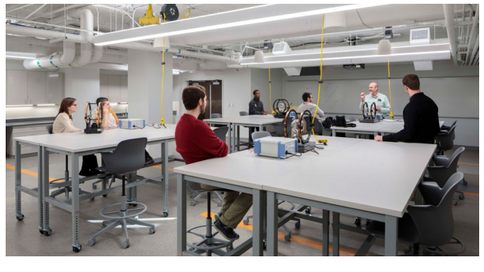
B REFERENCES

Please see requested references below.



DC CONSOLIDATED FORENSIC LAB
Allam H. Al-Alami , Operational Manager,
D.C. Department of General Services |
Capital Construction Division
202-671-2208
allam.al-alami@dc.gov

NATIONAL INSTITUTES OF HEALTH IDIQ CONTRACT
Rozario A.(Tony) Francis, Director/Chief
NIH | Office of Hospital Physical Environment
301-594-6472
francroz@ors.od.nih.gov



GEORGE WASHINGTON UNIVERSITY
Adam Aaronson, Assistant Vice President, Construction
Management and Campus Planning
George Washington University
703-725-9999
alaaro@gwu.edu

C STAFF CERTIFICATIONS

Relevant licenses are included in the table below. Please see appendix for business certificates for each firm.

TEAM MEMBER	LICENSE INFORMATION
Aaron Altman, AIA, LEED AP BD+C	Registered Architect: MD #15507
Wayne Nickles, AIA, LEED AP	Registered Architect: VA #0401013332, PA, MD, WV (License Pending)
Roger Schwabacher, AIA, LEED AP BD+C	Registered Architect: DC #ARC100578
Tim O'Connell, AIA, LEED AP BD+C	Registered Architect: DC #ARC101661, MD
Carrie Hsu, AIA, LEED AP	Registered Architect: VA #0401017315
Damon Sheppard, AIA, LEED AP BD+C	Registered Architect: DC #ARC100948, MD
Jack Baker, AIA, LEED AP BD+C	Registered Architect: DC #ARC102889
Donald Schildt, Jr., PE	Registered Professional Engineer: WV #018329, DE, MD, SC, VA
Blaine Linkous, PE, LEED AP	Registered Professional Engineer: WV #020451, MD, VA, TX, PA, NY, NC, DE, ME, DC, LA, MA
Stephen Jaeger, PE	Registered Professional Engineer: CA #30237
Kristen Young, PE, CEP	Registered Professional Engineer: MD #39955
Lucy Loukanova, PE	Registered Professional Engineer: MD #36084
Samuel Butzer, PE, LEED AP BD+C NCEES	Registered Professional Engineer: WV #020417, KY, VA, WI
Michelle Bloshteyn, PE, LEEP AP	Registered Professional Engineer: MD#26572, VA, DC
Chad Dunbar, PE	Registered Professional Engineer: MD #44677, VA, DC
Greg Clark, CTS	Certified Technology Specialist: #1252025
Joe Hammett, CTS-D	Certified Technology Specialist-Design: #2329340
Jason Whitfield, RCDD	Registered Communications Distribution Designer: #137130

PROJECTS

HOK is a global leader in the design of public health facilities for state and Federal agencies around the world. Our multidisciplinary team includes architects, interior designers, site planners, workplace strategists, and in-house lab planners, technical architects, and project managers specialized in the design of research facilities. Our designers bring both award winning facility design and a special focus on innovative new ways to create safe and effective environments for public health diagnostics and research.

We bring specialty experience in the design of high containment facilities, flexible research environments and creating environments for rapid diagnostic testing capability.

Our client-focused approach to research facility programming, lab planning, design and delivery promotes a symbiotic relationship between clients and design teams. Our flexible design solutions put the science experience at the forefront, using the most advanced technological design resources, HOK's lab specialists focus on the success of each project and client.

Our best design comes when we support the confluence of science, innovation, discovery, and creativity, then channel new ideas into flexible facilities that enable critical adjacencies; promote safety and control operational costs.

HOK has extensive experience in the design of Public Health and Safety Laboratory Facilities. From forensics, public health, clinical and biodefense facilities, we have unique insight into the operational and security requirements designed to protect public health and safety. Below is a snapshot of HOK's extensive experience with this facility type.

PROJECT	SIZE	Public Health/Public Safety Agency	Research/Diagnostic/ Testing Laboratories	Multi-Agency Facility	Animal Research/ Diagnostic/Testing	Forensic Labs	High Containment Labs (BSL-3 or higher)	LEED (Certified, Pending or Equivalent)
State of New Jersey Public Health, Environmental and Agricultural Laboratory Facility	200,000 sq. ft.	■	■	■	■		■	
District of Columbia Consolidated Forensic Lab	320,000 sq. ft.	■	■	■	■	■	■	■
New York State Dept. of Health, Wadsworth New Public Health Lab	500,000 sq. ft.	■	■		■		■	■
UK Health Science Agency Rosalind Franklin Laboratory	225,000 sq. ft.	■	■					■
New York State Dept. of Health, Wadsworth Center Rabies Replacement Laboratory	40,000 sq. ft.	■	■	■	■		■	
UK Health Science Agency Science Hub Building H50	60,000 sq. ft.	■	■		■	■	■	
USDA National Centers for Animal Health, Ames Modernization Ph. II, Consolidated Laboratory Facility	530,000 sq. ft.	■	■	■	■		■	■
USDA National Centers for Animal Health, Ames Modernization Ph. I, Supplemental Laboratory	60,000 sq. ft.	■	■		■		■	
National Institutes of Health Office, Laboratory, Healthcare IDIQ	+1 million sq. ft.	■	■	■	■		■	■
San Francisco Forensic Lab	90,000 sq. ft.	■	■	■		■		■
Rhode Island State Health Laboratories	212,000 sq. ft.	■	■	■	■		■	■
US Environmental Protection Agency, Environmental Research Center	1.2 million sq. ft.	■	■	■	■		■	■
Centers for Disease Control and Prevention Infectious Diseases Lab	300,000 sq. ft.	■	■		■		■	
Air Force Technical Applications Center	400,000 sq. ft.	■	■			■	■	■
San Mateo Sheriff's Forensics Laboratory + Coroner's Office	325,000 sq. ft.	■	■		■	■		■
US Army Criminal Investigation Laboratory, Fort Gillem	100,000 sq. ft.	■	■			■		
NOAA Pacific Region Center	310,000 sq. ft.	■	■					■
NOAA National Center for Weather and Climate Prediction	269,000 sq ft.	■						■
University of California, South Valley Animal Health Laboratory	54,000 sq. ft.	■	■		■		■	■
Department of Justice, Interim Forensic Lab	50,000 sq. ft.	■	■			■		
Department of Justice, Confidential Agency Forensic Lab	400,000 sq. ft.	■	■			■		
Fairfax County McConnell Public Safety and Transportation Operations Center	146,000 sq. ft.	■		■		■		

CONSOLIDATED FORENSIC LABORATORY

DISTRICT OF COLUMBIA

LEED- PLATINUM

LOCATION
Washington, D.C.

SIZE
361,000 sq. ft.

PROJECT TYPE
Consolidated Forensic, Public Health Lab and Medical Examiner Facility

CLIENT CONTACT + REFERENCE

Allam H. Al-Alami
Operational Manager
Capital Construction Division
D.C. Department of General Services
Office: 202.671.2208
Cell: 202.441.2027
allam.al-alami@dc.gov

Project Goals: The District of Columbia required a consolidated facility, dedicated to the District, to support forensic-based activities; and provide both operational savings through shared resources and work-flow advantages in co-locating agencies who may work together on cases.

Project Description: A model for conducting interdisciplinary forensic science, the Consolidated Forensic Laboratory (CFL) combines the District's public health and public safety forensic science efforts into one state-of-the-art building. The lab allows the city to coordinate crime, public safety and health investigations to help law enforcement officials solve crimes quickly and efficiently.

The CFL facility maintains separate but collaborative departments: The D.C. Department of Forensic Science, Forensic Science Laboratories, Public Health Laboratories, and the Office of the Chief Medical Examiner. The carefully organized consolidation of the laboratory stems from the nature of interrelated public health and safety casework. It allows all the scientists to work interactively on a common case, when necessary, balancing the proper separations and interactions of investigations.

Challenging the status quo throughout the design process, the design team sought to push the envelope by delivering more efficient, effective and integrated science environments to support the organization's mission and vision. Enhanced BSL-3 laboratories are located on an upper floor on the perimeter, allowing critical but demanding work to be performed with abundant daylight. Vehicle examination rooms operate as laminar flow clean rooms, maintaining integrity of the evidence. All the Medical Examiner's autopsy suites have natural light on the upper floors, bringing this critical work out of its traditional place in the basement.

"The work done by HOK on our new Consolidated Forensic Laboratory was phenomenal. Not a day goes by when I do not receive a compliment or positive commentary about the building, its functions, or its design. LEED Platinum status is no mean feat but for a laboratory building with two BSL-3 facilities and a morgue is unbelievable. It is truly unlike any forensic laboratory I've been in and represents a milestone for the District of Columbia."
Max Houck , Director, Department of Forensic Sciences

PROJECT GOALS: SUSTAINABILITY + ENVIRONMENTALLY FRIENDLY DESIGN

Working with many agencies and stakeholders, the design team developed common protocols and functional relationships to create a universally adaptable model that promotes interdisciplinary interaction, maintains strict chain-of-custody integrity and delivers high-performance technical space for science.

Labs are located along the north side, allowing for natural light without significant heat gain in these mechanically sensitive spaces. Building core and lab support spaces are in the center. Office spaces are on the south side, with a full-height curtain wall that takes advantage of natural light.

The building satisfies the stringent safety and reliability requirements of a first-responder facility while being designed for LEED Platinum certification. In addition to the glazed solar shading system and a high-efficiency curtain wall, sustainable features include an efficient HVAC system with chilled beams and energy recovery air handling units. Runoff from the green roof and remaining hardscape goes to a cistern sized for a 100-year storm. The water is used for cooling tower make-up, reducing annual potable water consumption by more than 2 million gallons.

PUBLIC HEALTH, ENVIRONMENTAL + AGRICULTURAL LABORATORY FACILITY

STATE OF NEW JERSEY BLDG. AUTHORITY

LOCATION
West Trenton, New Jersey

SIZE
200,000 sq. ft.

PROJECT TYPE
Public Health, Environmental, and Agricultural Laboratory Facility

CLIENT CONTACT + REFERENCE
Raymond Arcario
Executive Director,
New Jersey Building Authority
609.943.3365
Raymond.arcario@treas.state. nj.us

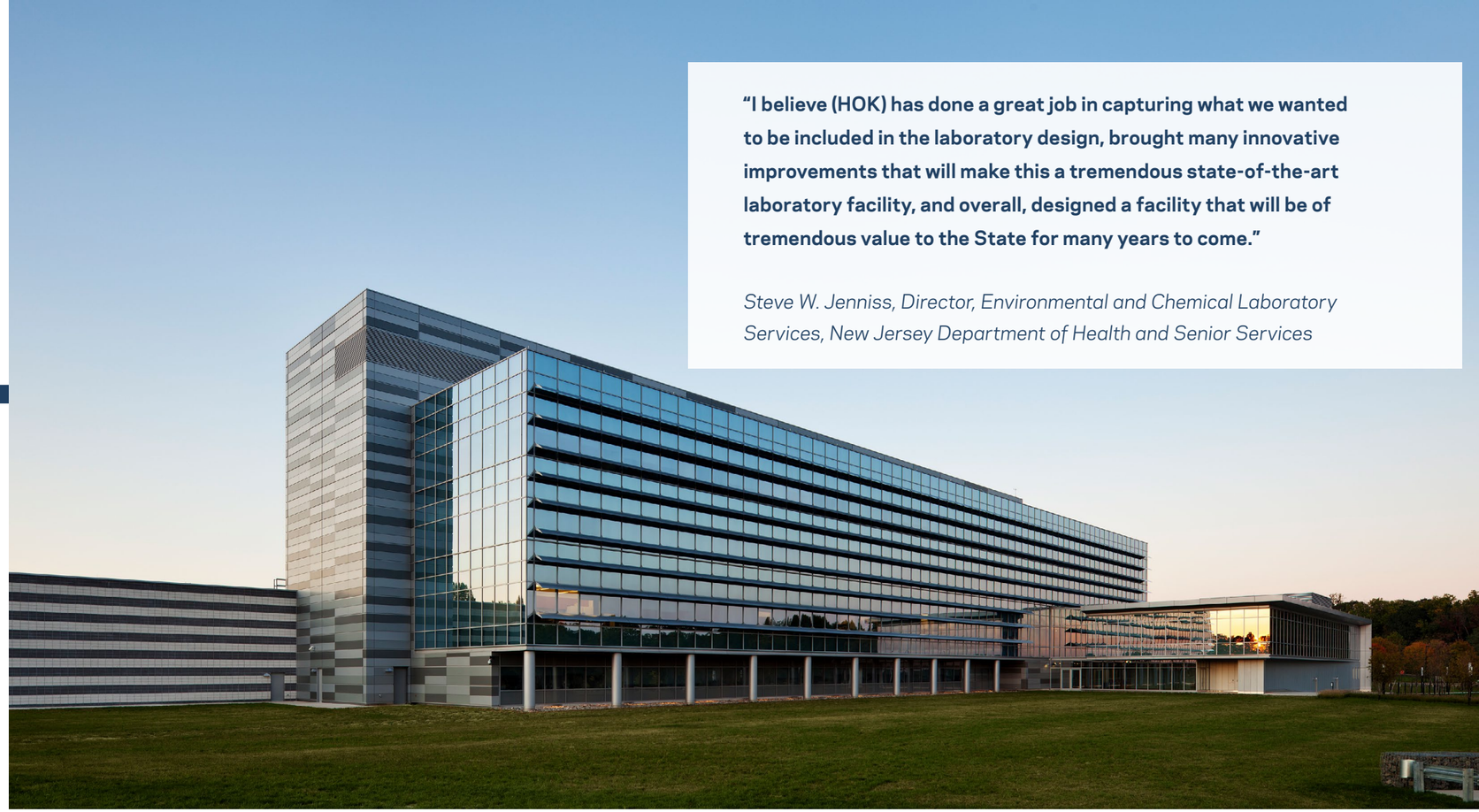
Project Goals: The State of New Jersey required a new facility to support of the Department of Public Health and Department of Agriculture. This consolidated facility would provides critical testing and lab space for bioterrorism, epidemiology, microbiology, environmental chemistry and analytical laboratories to facilitate public health surveillance, monitoring, and screening for the state.

Project Description: Housed in a simple, elegant architectural solution, this consolidated laboratory facility includes a mix of functional areas--including office and collaboration space where various agencies to perform the increasingly complex and urgent work in support of public health and environmental programs.

Offering comprehensive clinical, environmental, agricultural, and all-hazards threat response, the NJPHEAL is an integral component in the State of New Jersey's response plan. The facility features over 15,000 sq. ft. of BSL-3 labs for Clinical and Bioterrorism response. The facility includes state-of-the-art Chemical Terrorism labs for high throughput screening of clinical and environmental samples for rapid detection, as well as high density robotic freezer (-20C) storage for clinical samples.

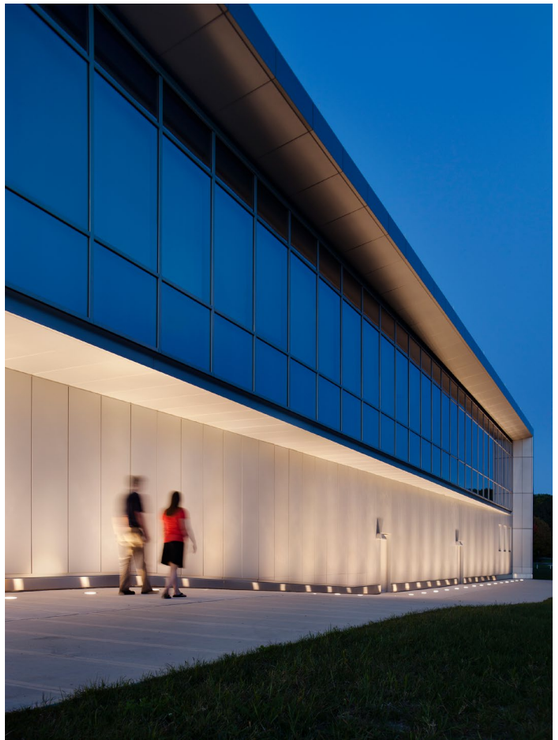
Department of Agriculture Facilities include space for plant and animal science, fisheries and markets, and monitoring and surveillance of agricultural pathogens. Project facilities feature large animal necropsy for bovine and equine species and small animal necropsy at BSL-3, as well as a plant science lab "greenhouse" to provide facilities for the evaluation and prevention of threats to the State's agricultural resources.

The project was a complex exercise in marrying very disparate programs with different needs, changing regulatory requirements, and stringent security needs -- all in a building designed and built to last for 50+ years, with the built-in flexibility to meet changing programs and advances in science.



"I believe (HOK) has done a great job in capturing what we wanted to be included in the laboratory design, brought many innovative improvements that will make this a tremendous state-of-the-art laboratory facility, and overall, designed a facility that will be of tremendous value to the State for many years to come."

Steve W. Jenniss, Director, Environmental and Chemical Laboratory Services, New Jersey Department of Health and Senior Services



PROJECT GOALS: SUSTAINABILITY + ENVIRONMENTALLY FRIENDLY DESIGN

HOK integrated significant sustainability strategies throughout the building. The building is oriented with its long dimension facing south, affording the opportunity to maximize the benefits of natural light, resulting in reduced electrical and heating costs. HOK designed the labs to receive as much daylight as possible—a must for diagnosticians who spend much of the day at their desks. The daylight is managed to control solar heat gain and glare in all the work spaces.

Photovoltaic cells are incorporated into the architectural detail of the roof, the roof of the lab block, the south facing façade, and the skylight of the atrium - all positioned to maximize the amount of energy (~ 173.5 kWdc) harnessed.

HOK sourced recycled and low-VOC construction materials, and included occupancy sensors for lights and fume hood control, as well as variable air volume hood controls.

Landscape features include a sloped outdoor gathering space, various ornamental and shade trees, native species of grasses and indigenous plants, and a naturalized retention basin. Outdoor paved areas connected to the building include a stepped and ramped walk to the main entrance.

TRAFFIC COMPANY AND FORENSIC SERVICES DIVISION

CITY OF SAN FRANCISCO, DEPARTMENT OF PUBLIC WORKS

LEED GOLD-ANTICPATED

LOCATION
San Francisco, California

SIZE
90,000 sq. ft.

PROJECT TYPE
Combined Forensic and Police Traffic Services Lab

CLIENT CONTACT + REFERENCE
Charles Higueras
Bureau of Project Management
415.557.4646
Charles.Higueras@sfdpw.org

Project Goals: "Redefining a Neighborhood" was the overarching goal for the new facility, uniting the Southeast Quadrant of the city. The city also sought to embody the highest level of forensic science in a workplace that is healthy, collaborative and demonstrates incomparable technical sophistication and security;exemplify and advance forward-thinking sustainable design principles; and serve as a catalyst to propel an appropriate redefinition and improvement of the neighborhood.

Project Description: HOK/MEI led the full design of the new Traffic Company and Forensic Services Division facility for the San Francisco Police Department. The building's program includes spaces for two unique, yet interrelated divisions of the police department - the Forensics Services and Traffic Company. The project was one of five major building and infrastructure renewal projects within the city's 2014 Earthquake Safety & Emergency Response Bond measure.

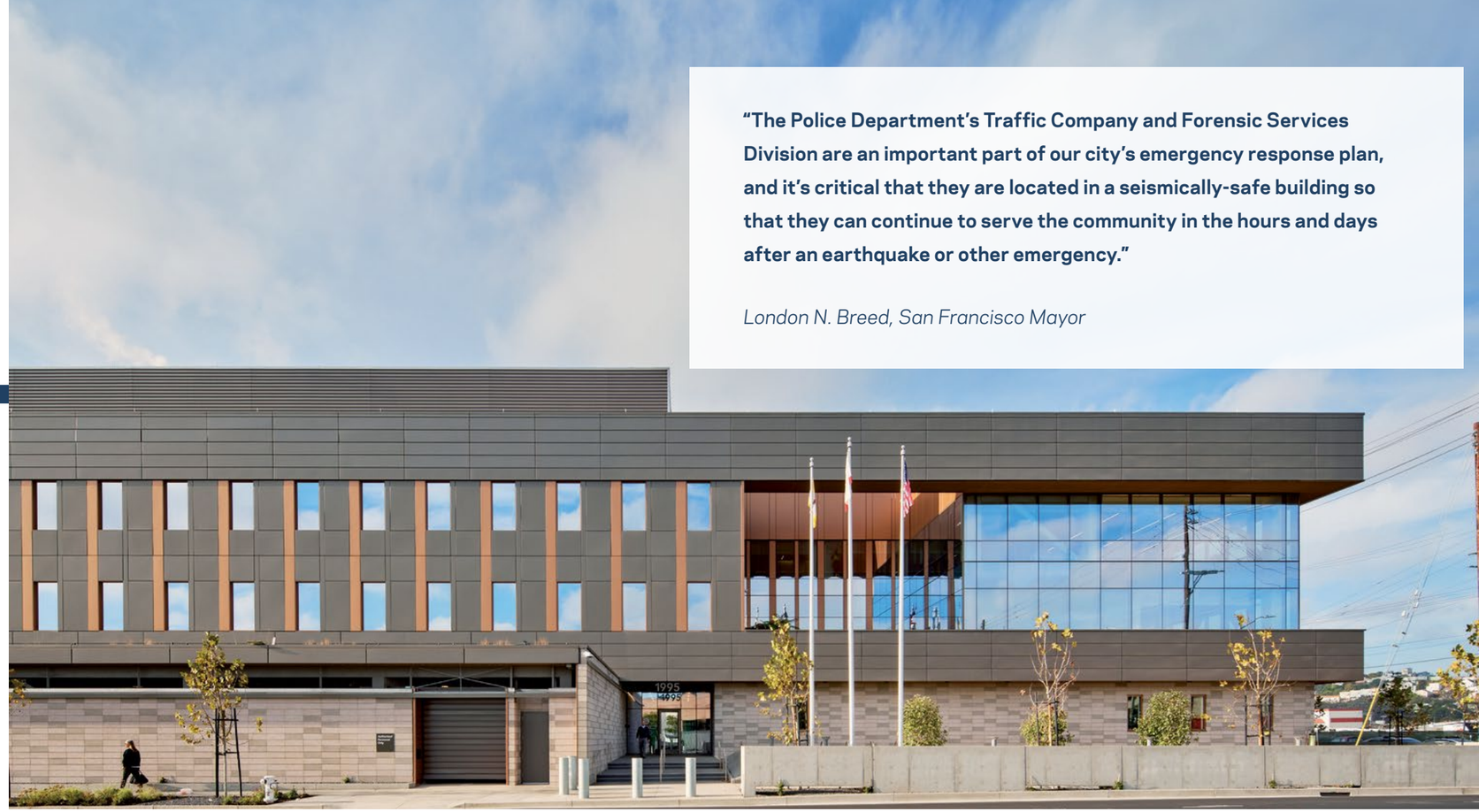
The team responded to the project's challenges by designing an innovative building that is sustainable, functional, and beautiful, while making a significant contribution to its urban location. Built on a brownfield, in-fill site at the intersection of a central thoroughfare, the facility was designed as a transformative gateway and an urban catalyst, integrating a public realm streetscape with spacious, landscaped sidewalks and a public plaza with a poignant art installation to create a welcoming front door for the community. The courtyard's landscaped berm doubles as a vehicle barrier for added protection.

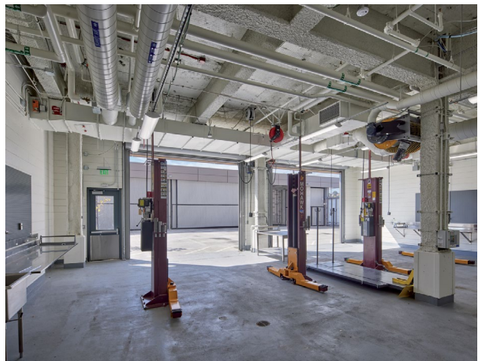
The Forensic program includes state-of-the-art forensic laboratories, laboratory support spaces, evidence/crime scene lab, test fire range and administrative offices. Also included in the program are administrative spaces and vehicle fleet/impound lot for the city's Traffic Services.

As an essential government facility, the building can remain fully operational for 96 hours after a major disaster and serves as a designated city-wide emergency response center.

"The Police Department's Traffic Company and Forensic Services Division are an important part of our city's emergency response plan, and it's critical that they are located in a seismically-safe building so that they can continue to serve the community in the hours and days after an earthquake or other emergency."

London N. Breed, San Francisco Mayor





PROJECT GOALS: SUSTAINABILITY + ENVIRONMENTALLY FRIENDLY DESIGN

The City of San Francisco challenged the team to create an innovative building that focuses on sustainable, functional, and beautiful design, while making a significant contribution to the urban location in which it is located.

From the beginning of the project, the team set out to integrate architecture and the environment, resulting in a high-performing, LEED-Gold anticipated facility that maximizes resource efficiency and minimizes its impact on the environment. The building's solar-responsive façade, efficient mechanical systems and 100% LED lighting all contribute to 51% energy savings compared to a typical laboratory facility. Nearly a quarter of the site is dedicated to native, drought-tolerant plantings, including a landscaped plaza and an interior wellness courtyard, giving occupants a dedicated connection to nature and creates an environment of respite.

The team worked with local government and community organizations to create a new regional neighborhood center along the city's emerging Eastern Waterfront at the intersection of several communities, integrating a public realm streetscape with spacious sidewalks while anticipating future mixed-use development on the surrounding blocks. The building is easily accessible by both public and alternative modes of transportation.

UNRESTRICTED SPECIALIZED A-E SERVICES IDIQ CONTRACT

NATIONAL INSTITUTES OF HEALTH

LEED- GOLD

LOCATION
Bethesda, Maryland

SIZE
630,000 sq. ft.

PROJECT TYPE
Government Health and Research Facility

CLIENT CONTACT + REFERENCE
Rozario A.(Tony) Francis, Director/Chief
NIH | Office of Hospital Physical Environment
301-594-6472
francroz@ors.od.nih.gov

Project Goals: HOK was selected to provide A-E design and other related services in support of various projects on multiple NIH campuses under a Master Services Contract. While HOK has completed dozens of task orders under this contract, the following information represents work completed for the SRLM Building.

Project Description | Surgery, Radiology and Lab Medicine Building (SRLM) Task Order:
As the world's largest biomedical agency, the National Institutes of Health (NIH) conducts and supports research on the causes, diagnosis, prevention and cure of human diseases. The NIH's new Surgery, Radiology and Lab Medicine (SRLM) Building facilitates this mission by providing scientists, physicians and patients with spaces that inspire, heal and propel innovation.

HOK's design for the SRLM Building features a multi-wing structure extending from a central bar, breaking down the massing of the eight-story building. This design allows natural light to penetrate deep into the floor plan through lightwells between the wings. The building houses surgical suites, patient rooms, research labs, offices, conference spaces, and collaborative work areas. Additionally, it includes a renovation of the hospital's clinical research wing and an 82,000 sq.-ft. parking garage with essential infrastructure.

In addition to the programming and design of scientific and clinical work spaces, the project includes new, highly complex Radiology and Surgery clinical spaces, new Cath Lab, new research labs, cGMP space, ISO Clean Room and BSL 3 Labs. The Diagnostic/Research lab floor includes space for Accessioning, Diagnostic Labs as well as Offices and Administrative spaces. The facilities will allow the Department of Lab Medicine to handle an aver-age of 30,000 samples per day.

The building is designed as a state-of-the-art, safe, functionally efficient, flexible and cost effective facility and includes extensive site and infrastructure work to ensure that campus services and operations are maintained throughout the Project.

"The HOK team provided excellent coordination with the project team and stakeholders. They have been very responsive to NIH requests for information. The project was high risk and challenging, and they delivered the project submission with good quality and in a short time.""
Hamideh Alehossein, Project Officer, NIH

PROJECT GOALS: SUSTAINABILITY + ENVIRONMENTALLY FRIENDLY DESIGN

The SRLM places innovation and sustainability at the forefront. The abundant use of natural light and highly efficient mechanical systems have helped position the building to earn LEED v4 Gold certification.

Glowing glass cubes along the corners of the building hint at the innovative research and treatment occurring inside.

Research has shown that biophilic design—connecting people to nature—improves health and well-being. The SRLM connects building occupants to the outdoors in multiple ways.

Large windows provide occupants with restorative natural light and expansive views onto nature.

Corner gardens offer visitors, patients and places of comfort and reflection. The gardens double as bioretention gardens, harvesting stormwater from the building's rooftop.

NATIONAL CENTER FOR WEATHER AND CLIMATE PREDICTION

NATIONAL OCEANOGRAPHIC AND ATMOSPHERIC ADMINISTRATION

LEED- GOLD

LOCATION
College Park, Maryland

SIZE
268,000 sq. ft.

PROJECT TYPE
Government Office and Research Complex

CLIENT CONTACT & REFERENCE
Michael Huntress
Acquest Development, LLC
80 Curtwright Drive, Suite 5
Williamsville, NY 14221
mhuntress@acquestdevelopment.com

Project Goals: Following a GSA design competition, HOK provided full architectural design services for this 285,000 square foot National Oceanographic and Atmospheric Administration (NOAA) complex. NOAA's Center for Weather and Climate Prediction is the centerpiece of the largest planned research park in the region.

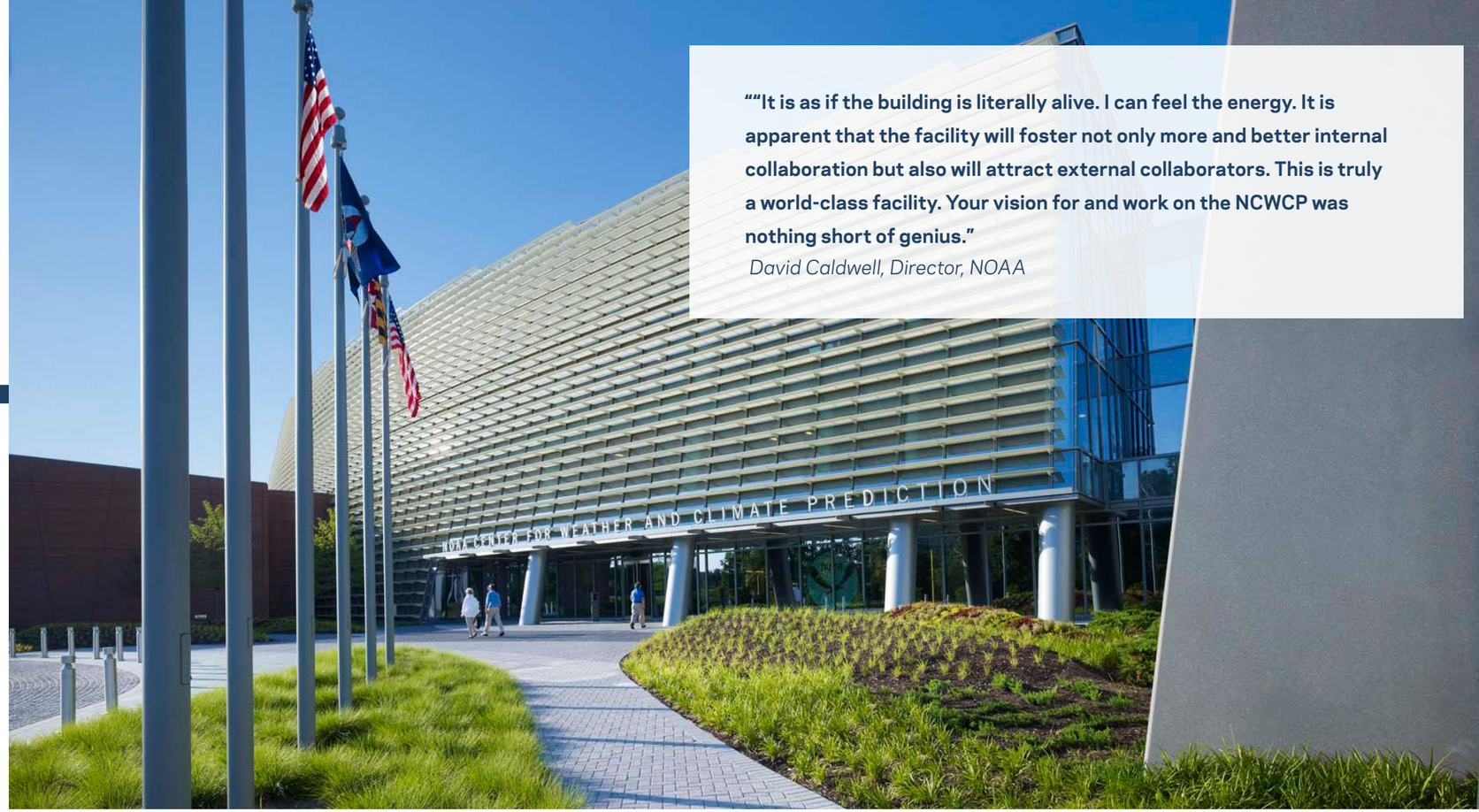
Project Description: To support the organization's mission of understanding and predicting changes in the earth's environment, HOK's design reduces the Center's impact on the environment and physically embodies man's relationship to nature.

Located on a 10-acre parcel adjacent to the University of Maryland College Park campus, the new facility is designed to foster synergy between University researchers, the meteorology education, and NOAA staff, and NOAA staff. The design enhances NOAA's mission by minimizing the building's environmental impact.

The building promotes innovation by connecting occupants with their natural surroundings. Sustainable design strategies include water-sensitive site design, bioretention, energy performance optimization, natural daylighting, enhanced indoor air quality and increased thermal comfort and control. The building actively demonstrates sustainable water use. Two-thirds of the roofs are gardens that act as its "fifth elevation."

Researchers enjoy views of the elevated meadows, while the roofs mitigate urban heat island effects and reduce the amount of rainwater that enters the storm water system. The remaining rainwater cascades down a four-story waterfall element and feeds into bioretention gardens.

The building responds to the environmental conditions that its users are observing and predicting. The architectural form and design details link energy performance to the user experience. Designed as a central gathering space, the five-story atrium encourages the informal interaction between scientists and administrators that is crucial to the development of science. With the main stairs and amenities clustered around it, this atrium becomes the building's social center.



""It is as if the building is literally alive. I can feel the energy. It is apparent that the facility will foster not only more and better internal collaboration but also will attract external collaborators. This is truly a world-class facility. Your vision for and work on the NCWCP was nothing short of genius."
David Caldwell, Director, NOAA

A-E-P SERVICES IDIQ CONTRACT

CONFIDENTIAL US DEPARTMENT OF JUSTICE AGENCY

LOCATION
Multiple Locations

SIZE
500,000+ sq. ft.

PROJECT TYPE
Forensic Lab and Public Safety Support Facilities

CLIENT CONTACT + REFERENCE
Alex Barlas
COTR
Department of Justice
703.632.1245
alex.barlas@ic.fbi.gov

HOK has provided A-E design services for a confidential agency with the U.S. Department of Justice for various tasks around the nation.

Under the IDIQ, HOK designed a new 450,000 sq. ft. forensic lab complex (with lab, office, conference, explosives operations, and other support functions); a 50,000 sq. ft. forensic lab with SCIF space; fit-out of fingerprinting and electronics labs; a joint-use explosive evidence intake and screening equipment testing building; and a 60,000 sq. ft. complex of office, SCIF, evidence repository, and visitor screening; and has expanded training facilities in addition to the completion of a 2,000,000+ sq. ft. master plan.

HOK has been able to assist the DOJ on diverse types of tasks, including master planning, site selection, security assessments, programming, new construction, fit-out construction, and construction administration.

The information below summarizes two key projects that are similar to the proposed West Virginia Consolidated State Lab.

FORENSICS LABORATORY
Huntsville, Alabama | 450,000 sq. ft. | Completed: 2015

HOK's design of the new 450,000 sq. ft. Forensic Laboratory for the DOJ amasses seven different structures including laboratory, office, conferencing, and other support functions. The facility houses forensics laboratories, lab related storage and support spaces, explosives storage areas including Ammunition Storage Points (ASPs) and Earth Covered Magazines (ECMs). Two of the buildings are specifically designed for handling, processing and testing explosives.

INTERIM FORENSICS LABORATORY

Lorton, Virginia | 50,000 sq. ft. | Completed: 2012

HOK's design for the 50,000 sq. ft. interim forensics laboratory space facility includes laboratories, offices, and SCIF spaces.

"HOK has consistently proven itself to be a high quality and high efficiency A-E firm. The [confidential agency] has turned to HOK for some of our most important projects in the past few years and we have come to rely on their expertise, their vision and amazing staff. The projects we have given HOK will result in facilities that will be at the forefront of [our] mission and overall success for decades to come. Any agency that considers HOK for a contract award will move one large step closer to a successful project."
Garland Crosby, Contract Specialist, DOJ

E GOALS & OBJECTIVES - ANTICIPATED CONCEPTS AND METHODS OF APPROACH

GOAL/OBJECTIVE 1

The successful design team will program, design, competitively bid and build a new consolidated laboratory facility on a site at the WV Regional Technology Park in South Charleston, WV.

Within their proposal, Vendors should provide documentation regarding their staff and/or team's qualifications and experience on similar projects in which laboratory facilities have been designed and constructed. The initial assessment predicts that a facility to meet all needs would encompass approximately 300,000 gross square feet of building space, with logistical appurtenances located on a single building site. The Vendor's proposal should include exemplary projects of similar scale.

HOK SCIENCE + TECHNOLOGY

With in-house laboratory architects and planners, HOK is a leader in the planning and design of science and technology facilities for academic research organizations. In the past 10 years, the HOK Science + Technology group has programmed, planned and designed more than 50 million square feet of scientific research facilities. Additionally, the Science + Technology group consistently ranks as one of the leading science and technology firms in the nation, boasting 11 "Lab of the Year" awards awarded by R&D Magazine/SEFA.

HOK's research facility and laboratory planning specialists create pioneering projects that advance innovative scientific discovery in buildings of every shape and size. Tapping into the minds of scientists, we will translate your vision into built form. By blending technical thought leadership with design excellence and engaging with you in every step of the process, we will produce an adaptable, sustainable facility designed from the inside-out and the outside-in.

TEAM QUALIFICATIONS

Our team brings design excellence, science facility thought leadership, and technical expertise to the project – equipping us with the ability to seize the opportunities and problem-solve the challenges ahead of us. HOK's core leadership team is based in our local Washington, DC studio, and brings leadership, relevant experience and valuable knowledge to successfully deliver the State of West Virginia's New Consolidated Laboratory Facility.

Aaron Altman is the Principal In Charge. Aaron has over 25 years of experience working on a number of large, complex projects such as governmental offices, laboratories, and airport terminals. As Principal in Charge, he conducts concept, schematic, design development and contract document work sessions, maintains client relationships throughout project, communicates with consultants and contractors, manages project budget, work plans, consultants and schedule, and develops detailed project schedules and communicates key deliverable dates to the project team. Aaron worked with the FBI Lab Division for 20 years, starting with the design and construction of the main crime lab at Quantico to multiple labs and technical facilities for TEDAC in Huntsville, AL. More recently, Aaron also been working for the NIH on their largest project ever conceived, the SRLM and has also completed tasks for 500sf lab renovations.

Wayne Nickles is the Project Manager. Wayne has over 20 years of experience managing complex design projects from programming through construction, with a particular focus on the science and technology market. His extensive technical knowledge of architectural systems is supported by a keen eye for design excellence and a firm understanding of engineering and sustainable-design principles. Wayne utilizes these skills to produce well-coordinated projects in which all systems are integrated into a unified design. He was most recently Project Manager for the newly completed UPMC Mercy—a 410,000 sq. ft. clinical research facility. Wayne will engage the agency, design team, and CMAR in an interactive design process that balances our most creative design ideas against functional requirements and expectations.

Tim O'Connell is the Science and Technology Subject Matter Expert for this project. Tim is HOK's firmwide Director of Science + Technology with over 28 years of experience in the design of research buildings. Tim brings extensive knowledge in the design and delivery of large complex research facilities including the design of highly technical interdisciplinary labs, vivaria, clean room and biocontainment spaces, as well as meaningful design opportunities related to collaboration and innovation in R &D facilities. Tim also worked with the FBI for over a decade on tasks for the Lab Division and TEDAC as well. He also programmed the labs that are in the SRLM that has been referenced. Tim was the lead programmer, planner and project architect for the DC Consolidated Lab and the lead programmer for the City and County of San Francisco Crime Lab.

RELEVANT EXPERIENCE

HOK's experience with the design of public health, public safety and forensic lab facilities is extensive. Please see our project matrix on page 25.

GOAL/OBJECTIVE 2

The successful design team will work with the Agency (i.e. as the potential facility administrator) in a collaborative effort with the WV Department of Health (Office of Laboratory Services and Office of the Chief Medical Examiner), the WV Department of Homeland Security (WV State Police Forensics Laboratory), the WV Department of Commerce (Division of Labor Weights and Measures Laboratory), the WV Department of Environmental Protection (Division of Air Quality's Laboratory), and stakeholders from West Virginia University and Marshall University, to design, competitively bid and build a new consolidated laboratory facility to accommodate co-location and provide training and other laboratory activity opportunities for a variety of State of West Virginia entities.

Within their proposal, Vendors should provide documentation regarding their team's experience working with multiple governmental (or similar) stakeholding laboratory entities to co-locate into a single location. Vendor's proposal should explain various successful approaches used to consider variegated needs of multiple stakeholders while achieving operational synergies in a single facility.

HOK understands the complexity that comes with integrating numerous agencies onto one site. The contact we have had with recent consolidated forensic and public health laboratory facilities has given us unique insight into the operational, security and facilities requirements as well as counter-terror measures designed to protect public health and safety.

HOK is highly experienced in designing facilities for a wide variety of research and testing requirements, and our approach has yielded world class facilities for agencies at the State and Federal Levels, as well as for private industry.

HOK's lab planning specialists have experience in accommodating all types of specialized laboratory equipment. We can assist in documenting instrument requirements and design the infrastructure to support them.

Our ultimate goal is to design practical, workable solutions for changing and evolving regulatory environments. We will work closely with the West Virginia PERD to determine the necessary laboratory accreditations to ensure your environments are ready to conduct specific testing, calibration, or inspection. By focusing on practical solutions, we are able to demystify the imposed technical burden so our clients can efficiently pursue their critical missions.

Examples of projects in which HOK has successfully managed complex regulatory and accreditation processes include:

- State of New Jersey Public Health, Agriculture and Environmental Laboratory Facility
- District of Columbia Consolidated Laboratory Facility
- New York State Public Health Lab
- San Francisco Forensic Laboratory Facility
- Fairfax County, Virginia Emergency Operations Center
- Ft. Gillem Army Criminal Investigations Laboratory
- FBI Forensics Laboratory Headquarters
- US EPA Environmental Research Center
- USDA Consolidated Laboratory
- Centers for Disease Control and Prevention
- Confidential Client CLIA Lab Renovation
- Confidential US Department of Justice TEDAC Facility

STAKEHOLDER ENGAGEMENT

Ensure a Good Fit: First and foremost, successful stakeholder engagement efforts respect and respond to a client's unique culture. While there are broad principles we regularly utilize in our approach to working with numerous stakeholders, each project develops its own identity. As we begin the process, we spend time working with key stakeholders, decision makers and various client groups to understand issues, test engagement and outreach strategies, and refine our approach. The result: a process designed to respond to the clients' diversity of experiences, perspectives and expectations.

Establish a Transparent Process: Effective stakeholder engagement results when participants understand the sequence of activities that build toward interim and final decisions. When basic questions regarding the process — who decides, what decisions will be made and when — are clearly stated, stakeholders understand how their participation fits within a larger context. We work with clients to clarify goals and expectations early on and use these as points of reference throughout the planning and design process. User-friendly process maps and task charts are used to highlight each step and illustrate how stakeholder participation is weaved into the plan.

Build Understanding & Ownership: Deepening the stakeholders' understanding of issues, ideas, opportunities and constraints related to the project is the first step toward building consensus. Through collaboration, participants gain a shared sense of conditions, trends and precedents; develop and test alternatives; and naturally work toward a plan that has broad support and early commitment for action.

Reach Beyond the Usual Players: We employ a proactive approach to balance the interests of the various stakeholder entities and make every effort to include representatives from all levels: executives, user groups, operations and everyone in between.

Follow a "No Surprises" Ethic: As the planning and design process moves toward conclusion, no one wants to be surprised by new information or unexpected controversy. We advocate maintaining open channels of communication, even with those least supportive of the effort, keeping opinion leaders in the loop and staying focused on solutions.

TOOLS FOR ENGAGMENT

HOK uses a test process of stakeholder engagement. A unique feature of the method is the use of onsite work sessions, analysis cards, spreadsheet data analysis, and visioning sessions. For projects we rely on these proven tools to collect data and to build consensus.

Workshops & Design Charrettes: Our workshop and multi-day charrette approach is designed to facilitate collaboration among team members, the client group, key stakeholders and the general public, and provide productive opportunities for the testing and refinement of design ideas and development strategies.

Interviews, Briefings & Focus Groups: One-on-one interview, key leader briefings and small group work sessions complement the larger-scale events and activities and offer opportunities to build bridges between the project and key stakeholders.

Hearings & Approval Processes: Working with project stakeholders, HOK participates in developing the approval and evaluation process strategy; prepares the required documentation,, and submittals; and participates in reviews, presentations and public hearings with citizens' groups, local, and state wide.

Web Sites : HOK can provide a private website for the mutual exchange of information and data; as well as participate in virtual meetings with data exchange and edit capabilities through such sites as "webex", TEAMS or ZOOM. HOK is utilizing project websites to coordinate and communicate among project team members throughout the life of a project. The website provides a unique platform for graphic and non-graphic information. The site can include drawings, reports, project photography, meeting notes, program documentation, schedules and correspondence. A project website creates a comprehensive, interactive project information system.

Simulations and Visualizations: Based on client needs, HOK provides full-service computer visualization and computer animation services. Computer visualizations provide three-dimensional conceptualizations of planning, architectural and interior projects based on existing data from our CAD systems, using 3D Studio VIZ as well as other software. This technology allows clients to visually experience project components before the construction process begins.

GOAL/OBJECTIVE 3

It is anticipated that the project may require multiple competitive bid packages (e.g. an initial site development package, a separate equipment package, etc.) in order to remain on an expedited schedule.

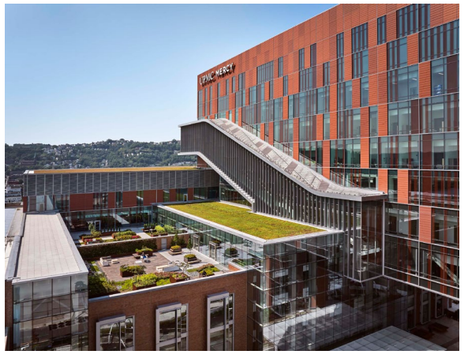
Within their proposal, Vendors should provide documentation of past projects in which they have designed and administered multiple, phased construction projects in order to keep projects on pace. Projects in which highly specialized equipment has been procured as part of an overall new facility construction or renovation project should also be documented.

PHASED CONSTRUCTION

Phased packages are a common method for accelerating projects and have become the most common means of delivery for projects of this scale in recent years. Fast-tracking permit and construction packages in this way introduces more risk for field changes, but the value to the schedule generally outweighs those risks. HOK has developed a project delivery method specific to fast-track projects that prioritizes close collaboration with the construction team in addition to the client and the design team that enables us to deliver early packages with confidence that the associated work will be properly coordinated with later developments.

In addition to phase packages, the retention of design-assist contractors early in the project is another method of achieving cost certainty and schedule advantage. Because Design-assist encourages builder involvement in the design phase from early in the project, we have been able to incorporate valuable design-thinking from a variety of Design-assist partners with much more confidence in the cost of the systems for which these contractors have been retained.

For the recently completed UPMC Mercy Pavilion, we used both of these tools, issuing phased deliverables and collaborated with design-assist contractors retained through the CM-at-Risk. There were three separate Construction Documents submissions: excavation and foundations, superstructure and enclosure, and finally interior fit-out and systems. Separation of these submissions enabled work to begin on site while the final design details were being completed. This overlapped with design assist contractors that had been retained in a competitive process based on the Design Development documents. The phasing of the submissions achieved what was desired to accelerate construction. The design-assist contractors, who were retained for curtainwall, MEP systems, and structural steel, helped to refine the detailing, provide for early procurement of major MEP equipment, and provide quick feedback on the cost implications of major decisions.



HIGHLY SPECIALIZED EQUIPMENT

HOK's extensive experience in complicated Science and Technology projects has involved many different types of specialized equipment that was either procured directly through the construction contract or had such a significant impact on building that we needed to be involved in the process of selecting and specifying these items to ensure the design was coordinated.

On a recent project design a research laboratory renovation for a global pharmaceutical company, our lab planners worked closely with the client's environmental health and safety staff to select a vendor for containment equipment that enabled their use of highly toxic chemicals. Following that selection, we coordinated closely with the users and the vendor to ensure that the containment enclosures were designed to accommodate the initial needs of the research while being flexible enough to handle future change, all while being tied in seamlessly with the building infrastructure.

The design of DC Consolidated Forensics Lab included numerous highly specialized pieces of equipment, many of which may occur in the West Virginia Consolidated Lab. They included:

- Indoor firing range
- Bullet recovery tank
- Back draft booths
- Glove box isolators
- Scanning electron microscope
- CT Scanner
- Autopsy tables

HOK coordinated with the client on the selection of vendors for each of these systems and coordinated with the vendors to integrate them fully into the design. These activities carried into the construction phase where our team assisted the CM with coordinating and submittals reviews.

GOAL/OBJECTIVE 4

The intent is that the project will begin immediately upon award of contract and proceed expeditiously to its completion. Deficiencies in the facilities of the stakeholding agencies need to be addressed with great immediacy.

Within their proposal, Vendors should provide documentation to indicate that they are prepared to begin work immediately, with a team dedicated to the project.

AVAILABILITY OF THE TEAM / CURRENT & PROJECTED WORKLOADS

Current and projected workloads of the proposed HOK team indicate that our team is available. We will dedicate our expertise to the successful outcome of this project. We can begin work on your project immediately upon award of contract to meet your estimated and proposed design schedule.

TEAM MEMBER	PROJECTS	PROJECT SIZE	PROJECT COMPLETION	INVOLVEMENT
Aaron Altman Principal in Charge	Longfellow One Preserve Parkway	180,000 sq. ft.	Februrary 2024	10%
	NIH MATOC, Various Projects	Varies	Through 2026	30%
	Department of State Peer Reviews	N/A	March 2024	5%
Wayne Nickles Project Manager	AstraZenece Kendall Square R+D Hub	371,000 sq. ft.	April 2026	10%
	Confidential Biopharma Area 6, Levels 5+6	60,000 sq. ft.	January 2024	5%
	Confidential Biopharma ADC Lab	25,000 sq. ft.	February 2025	10%
Tim O'Connell Science and Technology Subject Matter Expert	AstraZenece Kendall Square R+D Hub	371,000 sq. ft.	April 2026	5%
	Abbvie AMI	40,000 sq. ft.	November 2026	10%
	Carnegie Institute	120,000 sq. ft.	January 2027	5%
Roger Schwabacher Project Designer	KAPSARC College	190,000 sq. ft.	April 2026	10%
	Sarasota County Administration Center	120,000 sq. ft.	September 2025	5%
	U.S. Consulate, Adana, Turkey	300,000 sq. ft.	September 2026	30%
Carrie Hsu Project Architect	AstraZenece Kendall Square R+D Hub	371,000 sq. ft.	April 2026	20%
	NIST B215 Cleanroom	2,380 sq. ft.	October 2024	10%
Damon Sheppard Project Programmer / Planner	Morgan State University Health and Human Services Center	207,000 sq. ft.	May 2024	15%
	NIH National Library of Medicine	75,000 sq. ft.	October 2024	10%
	GW Law School Relocation Programming Study	300,000 sq. ft.	February 2024	15%
Jack Baker Lab Planner	NIST B215 Cleanroom	2,380 sq. ft.	October 2024	10%
	Confidential Biopharma Area 6, Levels 5+6	60,000 sq. ft.	January 2024	5%
	Confidential Biopharma ADC Lab	25,000 sq. ft.	February 2025	15%

GOAL/OBJECTIVE 5

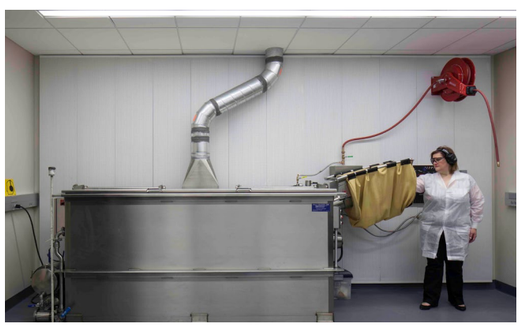
The Vendor will be required to produce construction documents and administer construction in compliance with State of West Virginia purchasing regulations. The Agency's procurements are generally governed by the WV State Purchasing Division, incorporate American Institute of Architects (AIA) general conditions, supplementally amended by the State to bring them into compliance with WV State Code.

Within their proposal, Vendors should provide documentation of past projects in which they have adhered to standards such as these, and explain their approach to administering the construction of the project with the Agency.

HOK has extensive experience working for government agencies and design projects that comply with the relevant governmental standards, whether at the local, state, or federal level.

We have designed very similar consolidated lab facilities for the District of Columbia, the State of New Jersey, the City of San Francisco, and the FBI. We also have worked with numerous public Universities across the country. In each of these instances, the government had distinct standards to be followed, and unique multi-level approval processes.

The DC Consolidated Forensics Lab required approval from six different agencies form various levels of government. At the local level it was the code official, office of planning, office of zoning, and the department of the environment. Due to the unique nature of public projects in DC, there were also federal entities involved: the National Capital Planning Commission and the Commission of Fine Arts. We were able to smoothly work through all of these approvals by coordinating proactively with each agency, meeting with each as the project began to understand the processes required to integrate them into the design schedule.



As part of our commitment to design excellence, HOK brings dedicated resources and a proactive approach to the Construction Administration phase. Our commitment is to facilitate communications and coordination among the Owner, Architect, and Construction Manager to ensure achieving the common goal of a high-quality project constructed on schedule, within budget and with no unresolved claims.

HOK has defined the following principles, which create a positive, productive, and professional working relationship with the construction team. HOK's construction administration personnel are committed to these principles:

- We own the problem and resolve the issue.
- All members of the team must have the same goal: successful completion of the project. If all members maintain a "Project First" attitude, there should be no conflict that cannot be equitably and timely resolved.
- Have a clear understanding of the responsibilities of all parties
- Respect the profession, responsibilities and knowledge of the other team members.
- Produce timely, accurate and honest communication.
- If you don't know, ask.
- Be fair, ethical and impartial in decision making.
- Trust each team member to have the same goal in achieving a successful project.

This approach has proven to be successful for all client types. When working with governmental agencies, we modify our methods to fit the specific processes that are required. Our team during the construction phase will have the same key leaders as the design phase, carrying over the knowledge of the state system that will be developed early in the project.

ANTICIPATED CONCEPTS AND METHODS OF APPROACH

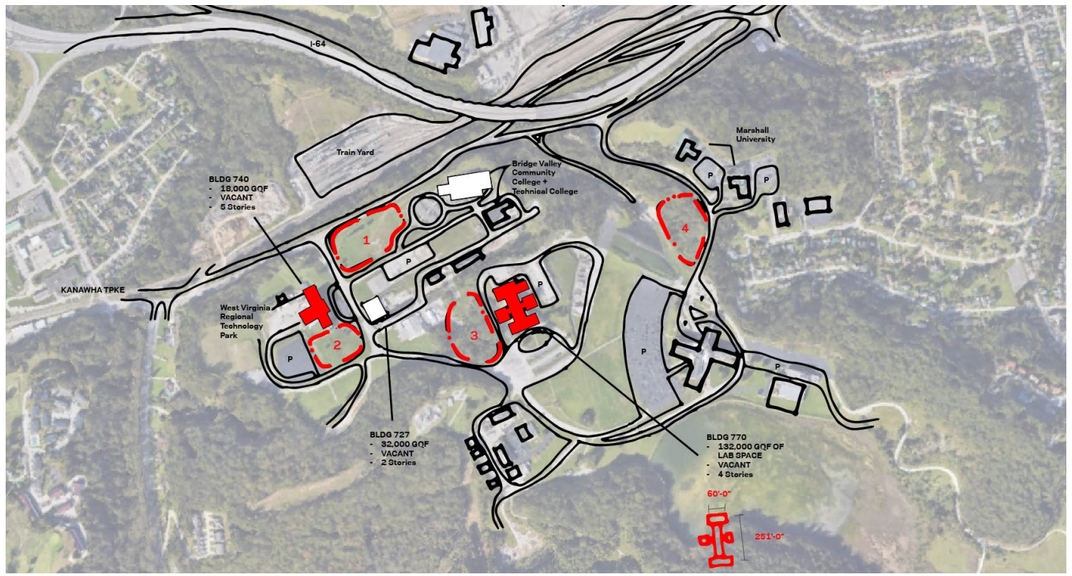
SITE SELECTION

Per the RFP, Goal/Objective 1 states that the state wants to build a new facility in the WV Regional Technology Park in South Charlston, WV. In addition, the evaluation rankings state that you want to see Anticipated Concepts and Method of Approach. In general, we don't like to do design work before we sit down with the owner and their representatives. However, this is a very complex building typology and with combining six agencies that will certainly be the case here, so we thought we would show some of our initial thinking. Therefore, we went to the web site for the technology park and found several parcels that could be developed.

There were three sites close to existing state facilities, that also had road infrastructure that we thought was important to keep development costs down. In the sketch below, Site 2 would be hard to fit a 300,000gsf building on it with out it being very tall. Laboratory buildings like this start to become very inefficient from a gross to net square footage perspective so we don't want it to get too tall, 3-6 stories would be ideal. However, every agency is going to want space at grade for loading and such. Fitting that all on the first floor can be tricky so the topography could allow for multiple entrances at different levels.

Site three was going to produce a very long and narrow building. One of the biggest trends in laying out a facility like this is to have really good adjacency to the labs from the offices, and that the office space support many different types of activities based on what the agencies are doing. Not to mention with the advantage of consolidating all of these agencies, you want collaboration space so that inter agency activities can be supported.

Therefore at this time, based on the nature of the exercise, we focused on Site 1. It is adjacent to an existing state facility and on a major road. So we anticipate there will be good access to site utilities. Parking could be across the street, which is good from an ATFP [Antiterrorism, Force Protection] point of view, and it had plenty of land to developable land. Additionally, Site 1 has good visibility from the highway which will be helpful for such a prominent new facility and is in good proximity to two existing state-owned buildings that have spaces available to retrofit into labs. The synergy between these three facilities is an advantage of this site.



SITE SCHEMES

We developed three options for how the 300,000 gsf facility could fit on site 1. Goals of these initial schemes include: creating collaboration areas distributed on every floor of the building to take full advantage of co-locating 6 agencies within the same facility; having an expanded ground floor footprint to locate amenities in the building that are aimed at external groups and are outside the secure zones; limiting the building height to 6 floors to fit with the surrounding campus and enhance connection between levels

ORGANIZATIONAL SCHEMES

Absent a site selection and prior to talking to stakeholders, the following diagrams are intended to show a few possible ways to organize the Building Program for a consolidated facility. Both schemes can successfully support the procedures for safe evidence handling while promoting collaboration between groups and providing training facilities for outside agencies.

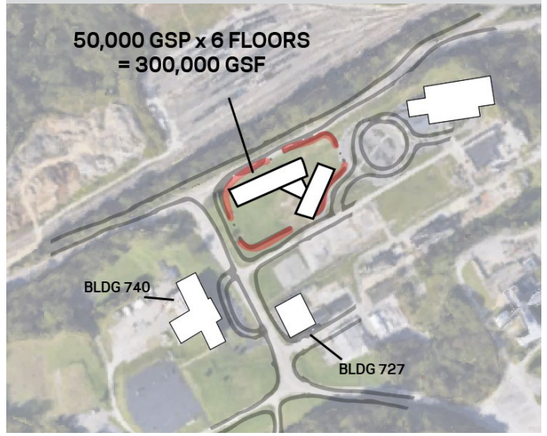
COURTYARD SCHEME

This scheme organizes departments and program elements around a shared Atrium "amenity" space – which has the added benefit of allowing internal program elements access to natural light. Evidence, staff and "public" entrances are separated. Secure loading provides direct access to evidence elevators. The conference/training element has been positioned in a way that allows it to be used by outside groups without the need to go into the "secure" part of the facility.

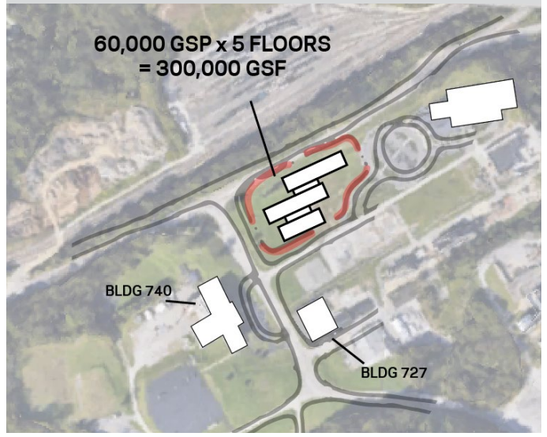
BAR SCHEME

The simplest building type, it can still effectively support a facility with complex program requirements. The bar scheme separates program groups be floor and features collaborative areas around a vertical multistory "atrium" that occupies a corner of the plan. Wet labs and offices are vertically stacked – allowing simple mechanical distribution. While each floor would have its own meeting and conference rooms, the primary conference/ training facilities are located on the ground floor – where they can be accessed outside of the "secure" perimeter.

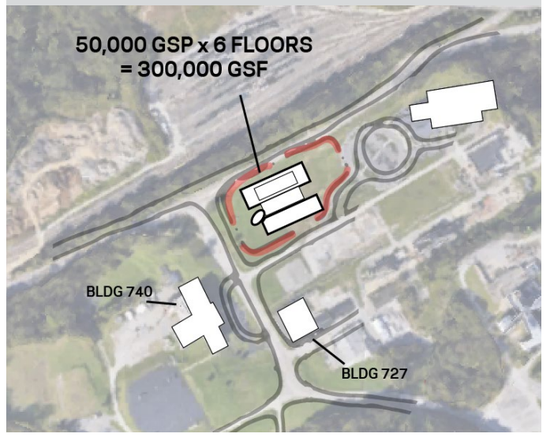
SCHEME 1



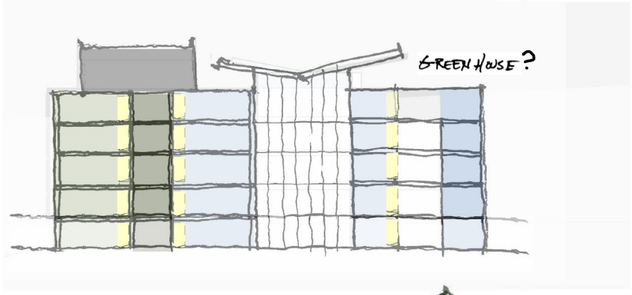
SCHEME 2

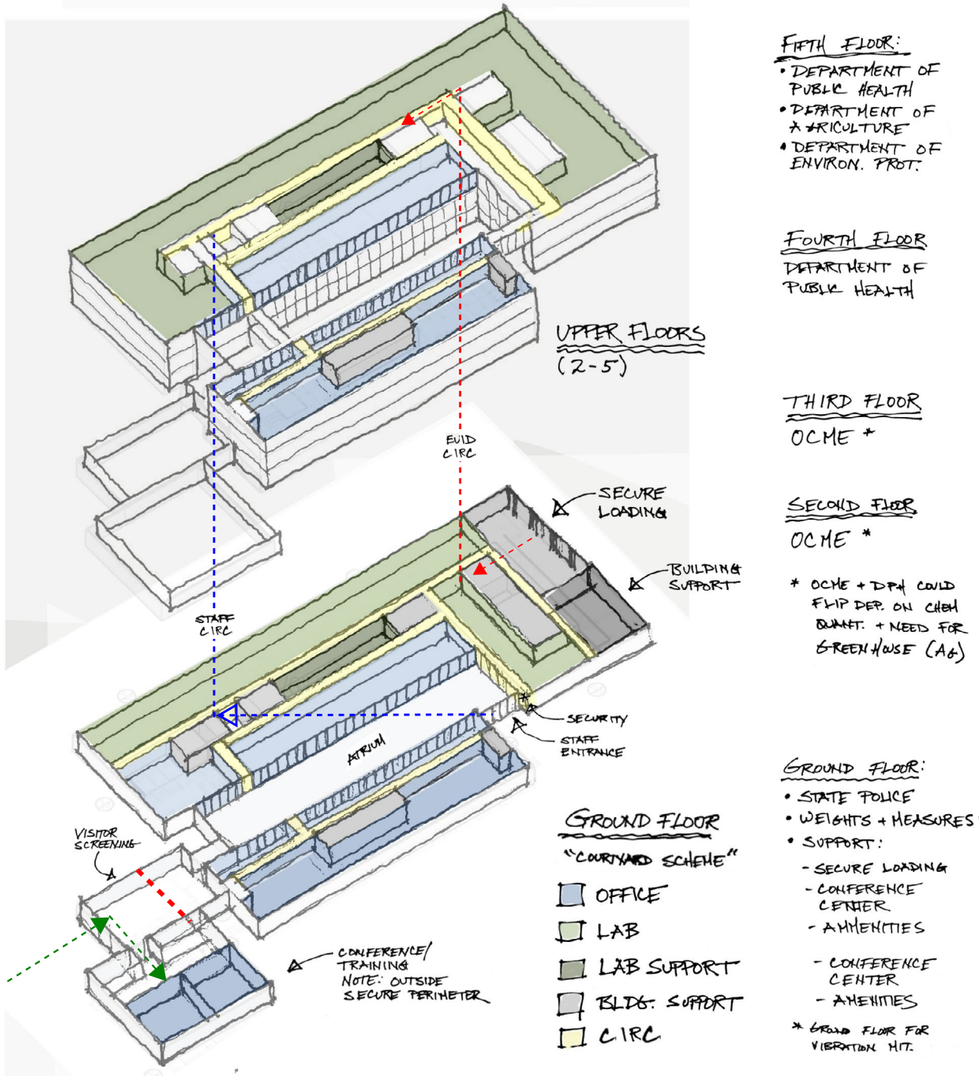


SCHEME 3



COURTYARD SCHEME





FIFTH FLOOR:
- DEPARTMENT OF PUBLIC HEALTH
- DEPARTMENT OF AGRICULTURE
- DEPARTMENT OF ENVIRON. PROT.

FOURTH FLOOR
DEPARTMENT OF PUBLIC HEALTH

THIRD FLOOR
OCME *

SECOND FLOOR
OCME *

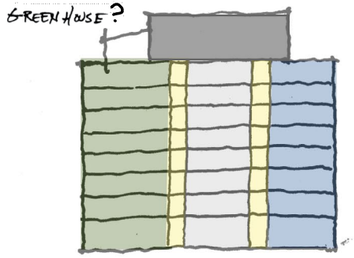
* OCME + DPH COULD FLIP DEP. ON CHEM DUMP. + NEED FOR GREENHOUSE (AG)

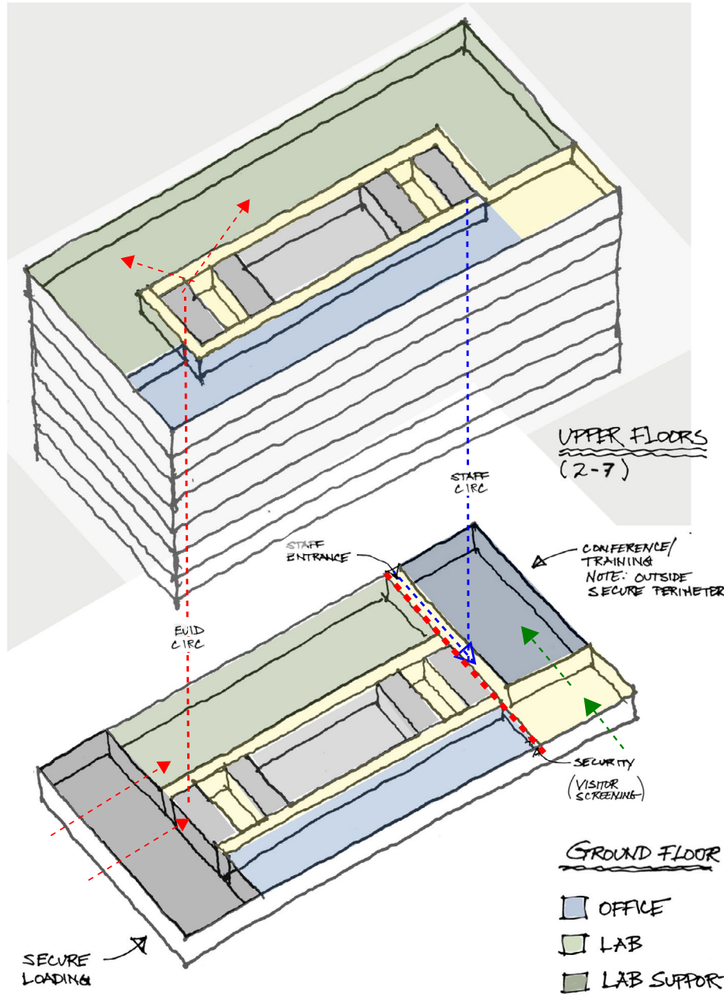
GROUND FLOOR
"COURTYARD SCHEME"
- OFFICE
- LAB
- LAB SUPPORT
- BLDG. SUPPORT
- CIRC

GROUND FLOOR:
- STATE POLICE
- WEIGHTS + MEASURES
- SUPPORT:
  - SECURE LOADING
  - CONFERENCE CENTER
  - AMENITIES
  - CONFERENCE CENTER
  - AMENITIES

* GROUND FLOOR FOR VIBRATION MIT.

BAR SCHEME





SEVENTH FLOOR
- DEPARTMENT OF AGRICULTURE

SIXTH FLOOR
OCME

FIFTH FLOOR:
OCME

FOURTH FLOOR
OCME

THIRD FLOOR
DEPARTMENT OF PUBLIC HEALTH

SECOND FLOOR
- DEPARTMENT OF PUBLIC HEALTH
- DEPARTMENT OF ENVIRON. PROT.

GROUND FLOOR
- OFFICE
- LAB
- LAB SUPPORT
- BLDG. SUPPORT
- CIRC

GROUND FLOOR:
- STATE POLICE
- WEIGHTS + MEASURES
- SUPPORT:
  - SECURE LOADING
  - CONFERENCE CENTER
  - AMENITIES
  - CONFERENCE CENTER
  - AMENITIES

* GROUND FLOOR FOR VIBRATION MIT.

EXCEPTIONS & CLARIFICATIONS

HOK LEGAL COMMENTS TO THE STATE OF WEST VIRGINIA'S GENERAL TERMS AND CONDITIONS

Hellmuth, Obata & Kassabaum, Inc. ("HOK") has reviewed the General Terms and Conditions ("Agreement") drafted by the State of West Virginia (the "State") with this EOI and is confident consensus can be reached with the State as to terms which will govern HOK's performance. However, prior to execution, HOK does propose several revisions to the Agreement in the interest of reaching a fair and balanced contract, covered by HOK's insurance. Exact edits can be negotiated upon award. We are happy to discuss the modifications.

INSURANCE (SECTION 8)

HOK is confident it has adequate insurance to meet all applicable limits. Accordingly, HOK seeks certain modifications to the phrasing of the requirements as set forth in the Agreement to match the requirements of its insurance program.

- HOK's professional liability coverage is on a per claims basis.

ADDITIONAL FEES (SECTION 17)

HOK seeks to include a carve-out that additional compensation will be provided to HOK if additional services required by changes in the Project or requested by the State.

- This is a standard industry request that additional services performed (and not caused by the fault of the design professional) will be compensated.

TIME IS OF THE ESSENCE (SECTION 20)

HOK seeks to remove time is of the essence in the agreement, and state that all services shall be performed as expeditiously as is consistent with the Standard of Care and orderly progress for the Project and schedule.

STANDARD OF CARE (28)

HOK seeks to clarify that the traditional architectural standard of care will govern HOK's performance of services. To the extent the Agreement, or any attachment thereto requires a heightened standard, and/or warranty with regard to HOK's performance of professional services HOK seeks to ensure the traditional standard of care will control, as a heightened standard of care is excluded from our Professional Liability policy.

HOK cannot agree to a warrant fit for intended purpose, or that its services and deliverables be from defect in material and workmanship, as this is a heightened standard and insurable.

HOK will endeavor to comply with all applicable laws, codes and regulations, however these laws and codes are by their nature subject to interpretation, HOK wants to clarify that it shall comply with reasonable interpretations of such laws and codes, consistent with its professional judgment and the Standard of Care.

INDEMNIFICATION (SECTION 36)

HOK seeks modifications to the indemnification provision consistent with the requirements of its insurance coverage; specifically, that the indemnification obligation will not include a duty to defend for claims under HOK's professional liability or worker's compensation policies, and clarification that that HOK shall indemnify the parties to the extent caused by its negligent acts, errors, or omissions.

AGREED REMEDIES (SECTION 47)

HOK seeks to include a mutual waiver of consequential damages, and to limit HOK's aggregate liability to a reasonable amount to be negotiated by the parties, with the appropriate carve-out noted in West Virginia code Section 5A-3-62.

- These are standard requests in the design industry.

In addition to the above comments on the RFP Terms and Conditions, we look forward to discussing the modified AIA document and reaching a mutually-agreeable contract.

APPENDIX

I. HOK CERTIFICATE OF INSURANCE
II. FIRM OVERVIEWS + BUSINESS LICENCES
III. PAST PERFORMANCE QUESTIONNAIRES / LETTERS OF RECOMMENDATION
IV. ADDENDUM NO. 1 ACKNOWLEDEMENT FORM

Client#: 238205 HOKGROU

ACORD **CERTIFICATE OF LIABILITY INSURANCE**

DATE (MM/DD/YYYY) 12/13/2022

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must have ADDITIONAL INSURED provisions or be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer any rights to the certificate holder in lieu of such endorsement(s).

PRODUCER	CONTACT NAME: Jerry Noyola	
Edgewood Partners Ins. Center 3780 Mansell Rd. Suite 370 Alpharetta, GA 30022	PHONE (A/C, No, Ext): 770-220-7699	FAX (A/C, No):
	E-MAIL ADDRESS: jerry.noyola@greyling.com	

INSURED	INSURER(S) AFFORDING COVERAGE	NAIC #
HOK Global Coverage 10 South Broadway Suite 200 Saint Louis, MO 63102	INSURER A : National Fire Insurance Co of Hartford	20478
	INSURER B : The Continental Insurance Company	35289
	INSURER C : Lloyd's of London	085202
	INSURER D : Continental Casualty Company	20443
	INSURER E :	
	INSURER F :	

COVERAGES CERTIFICATE NUMBER: 22-23 REVISION NUMBER:

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSR	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS	
A	X COMMERCIAL GENERAL LIABILITY			6072906715	12/15/2022	12/15/2023	EACH OCCURRENCE	$1,000,000
	CLAIMS-MADE X OCCUR						DAMAGE TO RENTED PREMISES (Ea occurrence)	$1,000,000
	X Contractual Liab.						MED EXP (Any one person)	$15,000
	GEN'L AGGREGATE LIMIT APPLIES PER:						PERSONAL & ADV INJURY	$1,000,000
	POLICY X PRO-JECT X LOC						GENERAL AGGREGATE	$2,000,000
	OTHER:						PRODUCTS - COMP/OP AGG	$2,000,000
								$
D	AUTOMOBILE LIABILITY			6072906729	12/15/2022	12/15/2023	COMBINED SINGLE LIMIT (Ea accident)	$1,000,000
	X ANY AUTO						BODILY INJURY (Per person)	$
	OWNED AUTOS ONLY / SCHEDULED AUTOS						BODILY INJURY (Per accident)	$
	X HIRED AUTOS ONLY / X NON-OWNED AUTOS ONLY						PROPERTY DAMAGE (Per accident)	$
								$
B	X UMBRELLA LIAB X OCCUR			6072906763	12/15/2022	12/15/2023	EACH OCCURRENCE	$5,000,000
	EXCESS LIAB CLAIMS-MADE						AGGREGATE	$5,000,000
	DED X RETENTION $10,000							$
	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY Y/N						PER STATUTE / OTH-ER	
	ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? N/A						E.L. EACH ACCIDENT	$
	(Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below						E.L. DISEASE - EA EMPLOYEE	$
							E.L. DISEASE - POLICY LIMIT	$
C	Professional Liab			B0146LDUSA2203767	12/15/2022	12/15/2023	Per Claim $2,000,000 Aggregate $2,000,000	

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)

CERTIFICATE HOLDER	CANCELLATION
For Proposal Only	SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS. AUTHORIZED REPRESENTATIVE

ACORD 25 (2016/03) 1 of 1 #S5050506/M5027633 The ACORD name and logo are registered marks of ACORD JNO02

State of West Virginia

Certificate

I, Mac Warner, Secretary of State of the State of West Virginia, hereby certify that

HELLMUTH, OBATA & KASSABAUM, INC.

a corporation formed under the laws of Missouri filed an application to be registered as a foreign corporation authorizing it to transact business in West Virginia. The application was found to conform to law and a "Certificate of Authority" was issued by the West Virginia Secretary of State on August 17, 2000.

I further certify that the corporation has not been revoked by the State of West Virginia nor has a Certificate of Withdrawal been issued to the corporation by the West Virginia Secretary of State.

Accordingly, I hereby issue this Certificate of Authorization

CERTIFICATE OF AUTHORIZATION

Validation ID:3WV4N_26RYB

Given under my hand and the Great Seal of the State of West Virginia on this day of

November 13, 2023

Mac Warner

Secretary of State

Notice: A certificate issued electronically from the West Virginia Secretary of State's Web site is fully and immediately valid and effective. However, as an option, the issuance and validity of a certificate obtained electronically may be established by visiting the Certificate Validation Page of the Secretary of State's Web site, https://apps.wv.gov/sos/businessentitysearch/validate.aspx entering the validation ID displayed on the certificate, and following the instructions displayed. Confirming the issuance of a certificate is merely optional and is not necessary to the valid and effective issuance of a certificate.

Firm Overview

Engineering leadership and innovative solutions for complex projects, working with clients and colleagues to improve the world.

Affiliated Engineers, Inc. (AEI) is a leading US-based multidisciplinary consulting engineering firm that plans, designs, and delivers high performance engineered systems for technically complex building and utility infrastructure projects. AEI specializes in research, energy production and distribution, healthcare, higher education, industrial, mission critical, and sustainability markets.

AEI has been ranked among the **Top 3 Science and Technology** engineering firm since 2013 by *Building Design + Construction's Giants 300* and **Top 10 MEP Engineer** for *Consulting-Specifying Engineer*. AEI is at the leading edge of research facility engineering across the country. Our depth of knowledge in these sophisticated facilities is further demonstrated by our receipt of **14 R&D Magazine Lab of the Year awards**. Applying that experience to our work on numerous research facilities, we have significantly expanded our design expertise. Our core values are to offer excellence in engineering, premiere service, and technical innovation across a multi-discipline culture of collaboration. We integrate the knowledge and skill of **more than 800 colleagues across 20 offices**. We are dedicated to effective communication which enables AEI to identify our clients' engineering needs and offer enduring strategies and technologies.

Select Projects with HOK

- National Institutes of Health Building 10 - NM Radio-Pharmacy
- National Institutes of Health Building 10 Nuclear Medicine and PET Renovations Concept Design
- National Institutes of Health Interim Intra Venous Admixture Unit Pharmacy Design
- University of Pittsburgh Medical Center Mercy Vision Institute
- SRI International VA Vivarium Conceptual Planning
- The University of Chicago The Center for Physical & Computation Sciences
- University of North Carolina at Chapel Hill Molecular Biomedical Research Building Vivarium Renovation
- University of North Carolina at Chapel Hill Neuroscience Research Building First Floor Renovation
- University of Maryland, Baltimore Health Sciences Research Facility III
- California Institute of Technology Ginsberg Center for Quantum Precision Measurement
- AstraZeneca 45 W Watkins Mill Road Cell Therapy Manufacturing Facility (CTMF)
- Confidential Client 700 Quince Orchard Blvd

50M+ square feet of research space

5M+ square feet of containment space

6.5M+ square feet of translational research space

10M+ square feet of vivarium space

Page 1

State of West Virginia

Certificate

I, Mac Warner, Secretary of State of the State of West Virginia, hereby certify that

AFFILIATED ENGINEERS, INC.

a corporation formed under the laws of Wisconsin filed an application to be registered as a foreign corporation authorizing it to transact business in West Virginia. The application was found to conform to law and a "Certificate of Authority" was issued by the West Virginia Secretary of State on October 03, 2008.

I further certify that the corporation has not been revoked by the State of West Virginia nor has a Certificate of Withdrawal been issued to the corporation by the West Virginia Secretary of State.

Accordingly, I hereby issue this Certificate of Authorization

CERTIFICATE OF AUTHORIZATION

Validation ID:7WV0H_67PCM

Given under my hand and the Great Seal of the State of West Virginia on this day of

November 07, 2023

Mac Warner

Secretary of State

Notice: A certificate issued electronically from the West Virginia Secretary of State's Web site is fully and immediately valid and effective. However, as an option, the issuance and validity of a certificate obtained electronically may be established by visiting the Certificate Validation Page of the Secretary of State's Web site, https://apps.wv.gov/sos/businessentitysearch/validate.aspx entering the validation ID displayed on the certificate, and following the instructions displayed. Confirming the issuance of a certificate is merely optional and is not necessary to the valid and effective issuance of a certificate.

About Kimley-Horn

Kimley-Horn is a multidisciplinary, privately-owned consulting firm recognized as a leader in providing comprehensive civil engineering, planning, landscape architecture, and design services to private- and public-sector clients nationwide. In 2023, we were recognized as #9 of the top 500 US Design Firms and #5 in Pure Design Firms by Engineering News Record (ENR). **Our firm is comprised of more than 7,500 professionals across 110+ offices nationwide.** Kimley-Horn has been providing services for training and research facilities, universities, and educational institutions for more than 50 years. This experience—coupled with our work on similar laboratory facilitiies—has given us a thorough understanding of the issues and inhow to implement successful design solutions. Kimley-Horn has provided civil engineering, site infrastructure design, master planning, site planning, landscape architecture, LEED® certification assistance, laboratory operations assessments, transportation engineering services, drainage improvements, utility design, regulatory agency permitting, and preparation of construction plans for laboratory facilities throughout the country.

Local Experience

Kimley-Horn has a strong resume of transportation work in West Virginia including the completion of the WVDOH's recent National Electric Vehicle Implementation Plan, multiple design projects for Huntington Tri-State Airport, and multiple planning studies and documents with the KYOVA MPO and RIC MPO. Kimley-Horn is also actively supporting local municipalities and other state agencies in West Virginia including the City of Charles Town, City of Ranson, and West Virginia University. Kimley-Horn has supported clients across the state through our more than 30 professionals licensed in West Virginia, our local offices in Huntington, WV, Pittsburgh, PA, Columbus, OH, and Reston, VA, and our collective passion for the statewide community. This passion has led us to also lead a senior design capstone project at WVU and mentor students through real world transportation projects in the state.

Kimley»Horn

CERTIFICATE OF

Authorization

STATE BOARD OF REGISTRATION FOR PROFESSIONAL ENGINEERS

The West Virginia State Board of Registration for Professional Engineers having verified the person in responsible charge is registered in West Virginia as a professional engineer for the noted firm, hereby certifies

KIMLEY-HORN AND ASSOCIATES, INC.
C00285-00

Engineer in Responsible Charge: BRIAN J. BREWER - WV PE 018698

has complied with section §30-13-17 of the West Virginia Code governing the issuance of a Certificate of Authorization. The Board hereby notifies you of its certification with issuance of this Certification of Authorization for the period of:

January 1, 2022 - December 31, 2023

providing for the practice of engineering services in the State of West Virginia.

IF YOU ARE REQUIRED TO REGISTER WITH THE SECRETARY OF STATE'S OFFICE, PLEASE SUBMIT THIS CERTIFICATE WITH YOUR APPLICATION.

IN TESTIMONY WHEREOF, THE WEST VIRGINIA STATE BOARD OF REGISTRATION FOR PROFESSIONAL ENGINEERS HAS ISSUED THIS COA UNDER ITS SEAL, AND SIGNED BY THE PRESIDENT OF SAID BOARD.

BOARD PRESIDENT

Firm Overview

McDonough Bolyard Peck, Inc. (MBP) is a leader in mitigating construction risk, offering a broad range of construction management and consulting services to optimize value within the built environment. With offices in ten states from New York to Florida, our diverse team of experts specializes in innovative solutions for our clients' dynamic infrastructure and facility needs.

For both public and private sector clients, our deep expertise in pre-construction and construction management makes us ideally suited to deliver small, medium, and large, k-12 and higher education facilities, complex transportation, building, and infrastructure projects and capital programs.

As an *ENR* top-40 construction management services firm, we have emerged as a national player in the architecture, engineering, and construction industry. Our exceptional team of certified construction managers, program management specialists, certified cost and schedule professionals, risk managers, commissioning experts, and project delivery professionals has earned a reputation as second to none in our industry.

Above all, we are problem solvers who are focused on maximizing an owner's investment at every stage.

MBP is the firm of choice for owners seeking the highest quality construction management services. As a result, nine out of 10 MBP projects are repeat business — a testament to the trust and respect we earn every day.

MBP's services include:

- Cost Estimating
- Cost Management
- Earned Value Management
- CPM Scheduling
- Constructibility Review
- Construction Management/Program Management
- Claims Consulting/Dispute Resolution
- Construction Inspection
- Risk Management
- Commissioning/Retro-commissioning
- Energy Assessments/Cost Optimization
- Value Engineering
- Building Information Modeling (BIM)

Cost Estimating

As part of the project team, MBP provides valuable feedback on overall budget management, specific costs, and project schedule. Our estimates are used for project budgeting, lifecycle cost analyses, as well

as a tool to manage cost and risk at all levels of design, bidding, and cost control during construction. Our team has the depth of staff and richness of technical expertise to respond to our clients' needs promptly and effectively. MBP has worked extensively in the preparation of cost estimates and providing cost comparisons to evaluate the cost-effectiveness of design options. We have a proven record and reputation for successfully performing estimating tasks that accompany demanding design schedules and tight budgets for significant construction programs. MBP's cost estimating approach is structured and flexible to meet client schedule deadlines and fiscal constraints – each estimate is tailored to the individual project and client needs.

MBP provides cost estimating, value engineering, and cost avoidance reviews for many public and private clients. It is a core service of our company. We understand the importance of completing the cost estimating tasks in a timely manner so as not to experience the impacts that late performance can have on a project. We work diligently and efficiently to meet every cost estimating milestone.

Commissioning

MBP strives to be the most trusted voice on your project team, with a priority set on creating better project outcomes. They are recognized by the Building Commissioning Association (BCA) as a Certified Commissioning Provider. MBP is experienced in commissioning, cost estimating, scheduling, project management, on-site inspection, and claims resolution for virtually all segments of the construction market. Our Facility Performance service line includes Cx, Retro-Commissioning (RCx), MBCx, energy audits, LEED consulting, and FHA/ADA assessments. For the past seventeen years, commissioning has been a core service for MBP. Our expertise includes a full range of mechanical, electrical, and plumbing (MEP) systems; life safety and fire protection; and building envelope systems. Our team's experience extends to over 700 buildings, and includes higher education, K-12 schools, libraries, general government buildings, laboratories, health centers, performing arts centers, museums, fire stations, police stations, data centers, and renovations.

MBP is a Certified Commissioning Firm (CCF) through the BCA. We have more than 20 team members dedicated to providing Cx services and hold qualifications which include Professional Engineer (PE), Certified Commissioning Professional (CCP), Certified Energy Manager (CEM), Accredited Commercial Energy Manager (ACEM), Certified Engineering Technician (CET), Certified Building Cx Professional (CBCP), Qualified Commissioning Process Providers (QCxP); Building Enclosure Commissioning Provider (BECxP); Accredited Commissioning Authority + Building Enclosure (CxA+BE); LEED Accredited Professionals (LEED-AP), Master HVACR License, and Master Electrician. Our team members are active members in the BCA, the Association of Energy Engineers (AEE), USGBC, and ASHRAE.

Relevant Projects:

- NIH, Surgery, Radiology and Laboratory Medicine, Bethesda, MD (HOK)
- NIH, Building 59B Electrical Switching Station and Emergency Generators, Bethesda, MD (HOK)
- NIH, Building 40A Advanced Vaccine Research Center, Bethesda, MD
- Johns Hopkins University Applied Physics Laboratory, Building 5 Renovations, Laurel, MD
- JHU-APL B12-N344 Chemical Lab Renovations, Laurel, MD

CERTIFICATE OF *Authorization*

STATE BOARD OF REGISTRATION FOR PROFESSIONAL ENGINEERS

The West Virginia State Board of Registration for Professional Engineers having verified the person in responsible charge is registered in West Virginia as a professional engineer for the noted firm, hereby certifies

MCDONOUGH BOLYARD PECK, INC.
C05350-00

Engineer in Responsible Charge: JENNINGS L. DAVIS, II - WV PE 015060

has complied with section §30-13-17 of the West Virginia Code governing the issuance of a Certificate of Authorization. The Board hereby notifies you of its certification with issuance of this Certification of Authorization for the period of:

January 1, 2022 - December 31, 2023

providing for the practice of engineering services in the State of West Virginia.

IF YOU ARE REQUIRED TO REGISTER WITH THE SECRETARY OF STATE'S OFFICE, PLEASE SUBMIT THIS CERTIFICATE WITH YOUR APPLICATION.

IN TESTIMONY WHEREOF, THE WEST VIRGINIA STATE BOARD OF REGISTRATION FOR PROFESSIONAL ENGINEERS HAS ISSUED THIS COA UNDER ITS SEAL, AND SIGNED BY THE PRESIDENT OF SAID BOARD.

Scott E. Thomas Jr.

BOARD PRESIDENT

JENSEN HUGHES

Firm Qualifications

FIRM OVERVIEW

Jensen Hughes is the global leader in engineering, consulting and technology services, dedicated to protecting what matters most through technical excellence. With 1,500+ engineers, consultants, analysts and strategists working from more than 90 offices globally, we support clients across various markets — from government, healthcare, science and technology to energy, mission-critical infrastructure and transportation.

Although we're recognized most widely for our leadership in fire protection engineering, our other areas of expertise related to advancing safety, security and resiliency include accessibility consulting, risk and hazard analysis, process safety, forensic investigations, security risk, emergency management and digital innovation across many of our services.

SCIENCE + TECHNOLOGY

Providing Integrated Solutions for Safe and Compliant Facilities

Science and technology facilities, such as physics, laser, pharmaceutical and biotech labs and semiconductor fabs, face daily challenges with providing a safe environment while handling, storing, and processing hazardous materials of all types. Our team provides expertise in process safety, chemical hazard analysis and performance-based design to help you meet regulatory requirements and prevent unforeseen costs. We provide critical life-safety, security and emergency management solutions that these environments require for uninterrupted activity.

Facility Types

- DOE National Laboratories
- Animal Research Facilities
- BioSafety Labs (BSL)
- Biotech Labs
- Medical Research Facilities
- Pharmaceutical Labs
- Semiconductor Fabs
- University Science Labs

How We Help Our Clients:

- Integrated safety solutions that comply with all regulatory standards while meeting business objectives
- Quality control processes that verify systems will perform as intended
- Process Safety Management (PSM) and hazardous material protection solutions crucial to life safety, business continuity, loss control and environmental protection

RECOGNIZED EXPERTS

As members of the National Fire Protection Association (NFPA), the International Code Council (ICC), the Center for Chemical Process Safety (CCPS) and other regulatory organizations, our engineers are active participants in the development of building, fire and chemical process safety requirements and recognized leaders in the development of NFPA codes and standards.

jensenhughes.com

JENSEN HUGHES FIRM PROFILE

Our staff also participates on over 40 Technical Committees and hold the Chair, Alternate positions and technical task group participation on various Technical Committees for key NFPA Codes and Standards, including NFPA 30, 45 and 400. As a result, we have an invaluable understanding of the codes and the real-world application of those codes in a multitude of individual and unique circumstances.

RELEVANT PROJECT EXPERIENCE

We have worked on over 70 projects with HOK within the last five years. Below is a sampling of our relevant experience.

- Harvard University, Jefferson Laboratory, 2nd and 3rd Floors, Cambridge, MA
- University of Georgia, Interdisciplinary STEM Research Building, Phases I and II, Athens, GA
- Emory University, Health Sciences Research Building (HSRB), Phase II, Atlanta, GA
- USDA Southeast Poultry Research Laboratory, Athens, GA
- Georgia State University, Science Park, Phases II and III, Atlanta, GA
- Center for Disease Control and Prevention (CDC), Building 15, Atlanta, GA
- Georgia Southern University, Center for Engineering and Research, Statesboro, GA
- Tulane University, New Lab Building, New Orleans, LA
- Rhode Island State Health Laboratory (RISHL), Base Building and Tenant Fit-Out, Providence, RI*
- Johns Hopkins University, Applied Physics Laboratory, Laurel, MD
- One Preserve Parkway, Rockville, MD*
- Virginia Polytechnic Institute and State University, Corps Leadership and Military Science (CLMS) Building, Blacksburg, VA
- Clemson University, New Advanced Materials Innovation Complex (AMIC), Clemson, SC*
- National Bio and Agro-Defense Facility (NBAF), Manhattan, KS
- California Institute of Technology (Caltech), Resnick Sustainability Resource Center, Pasadena, CA
- Caltech, New Center for Quantum Precision Measurement (CQPM) and Kellogg Building Renovation, Pasadena, CA*
- Caltech, Sloan and Kellogg Laboratory Buildings Renovation, Pasadena, CA*
- University of Southern California, Viterbi Computer Sciences Building, Los Angeles, CA*
- Lilly Biotechnology Center, Titan Krios Electron Microscope, Suite Level One, San Diego, CA*
- Lilly Biotechnology Center, LOXO Structural Laboratory Reconfiguration, Level Two, San Diego, CA*
- Lilly Biotechnology Center, LOXO Medical Chemical Laboratory Expansion, Level One, San Diego, CA*
- Genesis Marina, Freenome Headquarters Tenant Improvement Project, Brisbane, CA*

**Projects Jensen Hughes collaborated on with HOK.*

CERTIFICATE OF *Authorization*

STATE BOARD OF REGISTRATION FOR PROFESSIONAL ENGINEERS

The West Virginia State Board of Registration for Professional Engineers having verified the person in responsible charge is registered in West Virginia as a professional engineer for the noted firm, hereby certifies

JENSEN HUGHES, INC.
C02884-00

Engineer in Responsible Charge: ARTHUR J. PARKER - WV PE 016967

has complied with section §30-13-17 of the West Virginia Code governing the issuance of a Certificate of Authorization. The Board hereby notifies you of its certification with issuance of this Certification of Authorization for the period of:

January 1, 2022 - December 31, 2023

providing for the practice of engineering services in the State of West Virginia.

IF YOU ARE REQUIRED TO REGISTER WITH THE SECRETARY OF STATE'S OFFICE,
PLEASE SUBMIT THIS CERTIFICATE WITH YOUR APPLICATION.

IN TESTIMONY WHEREOF, THE WEST VIRGINIA STATE BOARD OF REGISTRATION FOR PROFESSIONAL ENGINEERS HAS ISSUED THIS COA UNDER ITS SEAL, AND SIGNED BY THE PRESIDENT OF SAID BOARD.

BOARD PRESIDENT

NV5

NV5: BEYOND ENGINEERING

The Sextant Group was formed with a mission to deliver technology and acoustical consulting services, helping clients navigate an ever-changing technology landscape. Acquired in 2019, we are now NV5. With our expanded capabilities, we continue our mission as one of the most distinguished independent technology consulting firms in the United States.

As providers of engineering, technology, and acoustic consulting services, NV5 serves public and private owners from offices nationwide and abroad. Our holistic approach with a single point of contact for a broad range of converged disciplines includes Audiovisual, IT/Telecom, Security, Lighting, and Acoustics. This consolidated approach streamlines interdisciplinary alignment and project delivery, resulting in improved team communication and coordination.

Government facilities, from local to federal, are key fixtures in our societal infrastructure. They are places where policymakers conduct work of high importance and complexity. Often representing a significant expenditure on the public's behalf, innovative and forward-thinking solutions ensure public funding is used efficiently.

From a local community chambers and county police/fire departments to The US House of Representatives and sprawling military bases, properly designed and engineered systems help create facilities that successfully support the missions of our civil servants.

NV5 takes pride in helping our clients develop high-quality, cost-effective, and sustainable projects that go Beyond Engineering.

NV5 — In Numbers

100 LOCATIONS WORLDWIDE | 4,000 EMPLOYEES | 1,500 TECHNICALLY LICENSED

+ #9 BD+C Top 85 Office Sector Engineering Firms 2022
+ #15 BD+C Top 70 Science + Tech Engineering Firms 2022
+ #11 BD+C Top 55 Laboratory Engineering Firms 2022
+ #22 ENR Top 500 Design Firms 2023
+ #12 ENR Top 100 Pure Designers 2023
+ #7 BD+C Top 80 Engineering Firms 2023
+ #20 CSE Magazine MEP Giants 2023
+ #19 CSE Magazine Commissioning Giants 2022
+ #1 Zweig Group Hot Firm Four Years in a Row
+ #77 Forbes Magazine America's Best Small Companies 2022
+ #83 Fortune Magazine Top 100 Fastest Growing Companies

TECHNOLOGY & ACOUSTICS

Acoustics, Noise & Vibration Control
Audiovisual Systems Design
Healthcare Technology Systems Design
Intelligent Buildings Systems Consulting
IT/ICT Systems Design
Lighting Design
Security & Surveillance Systems Design

BUILDING SOLUTIONS

Building Analytics
Building Controls Support
Commissioning
Digital Twin
Energy Audits
Retro-Commissioning

CLEAN ENERGY

Asset Management
Battery Energy Storage Systems
Building Optimization & Energy Efficiency
Decarbonization
EV Planning & Fleet Electrification
Green Building & Sustainability Consulting
Owner's Representation
Policy Support, Program Design & Oversight
Solar PV Consulting

OWNER'S REP

Civil/Infrastructure Project Management
Cost Estimating
Environmental Assessments
Facility Condition Assessments
Facility Project Management
Grant Funds Management
Move Management
Scheduling, Current and Forensic
Site Planning

PLANNING & DESIGN

Central Utilities
Civil Engineering
Code Consulting
Fire Protection & Life Safety Engineering
MEP Engineering
Scan-to-BIM
Structural Engineering

NV5.COM | Beyond Engineering

State of West Virginia

Certificate

I, Mac Warner, Secretary of State of the State of West Virginia, hereby certify that

THE SEXTANT GROUP, INC.

Control number: 9B6XB

a corporation formed under the laws of Pennsylvania has filed its "Application for Certificate of Authority" to transact business in West Virginia as required by the provisions of the West Virginia Code. I hereby declare the organization to be registered as a foreign corporation from its effective date of November 07, 2023.

Therefore, I issue this

CERTIFICATE OF AUTHORITY

to the corporation authorizing it to transact business in West Virginia

Given under my hand and the Great Seal of the State of West Virginia on this day of November 07, 2023

Mac Warner

Secretary of State

568876

COLIN GORDON FIRM PROFILE

Colin Gordon Associates, founded in 1990, provides specialized consulting services in acoustics and vibration control. The company has grown steadily from a one-person firm to an experienced organization offering services world-wide. Currently the staff numbers fourteen employees, including support personnel, offering both breadth and a desirable degree of redundancy. Staff members include technical experts in architectural acoustics and noise control, industrial and environmental noise studies, structural dynamics and building vibration, computer modeling techniques, and dynamic measurements.

The firm is recognized nationally and internationally for its work in the design of low- vibration and low-noise environments for technological buildings. CGA serves a wide variety of organizations in the tech sector, including university research laboratories, the semiconductor and optoelectronics industries, the biotech, pharma, and healthcare communities, as well as the cutting-edge areas associated with nanotechnology. CGA provides to these sectors a selection of services ranging from sophisticated vibration and noise control to solutions of more mundane problems that may arise.

The firm also works extensively in the more conventional areas of building and environmental noise and vibration studies. The control of noise and vibration in buildings poses some unique problems ranging from the selection of design criteria to the development of design details and specifications for structural and mechanical systems. On many projects, the company serves as a member of the architect/engineer design team. On others, the company acts individually and directly with the owner.

CGA has extensive experience with the types of laboratories that are the focus of this project. Selected past similar projects include:

- ***HOK*** *– San Francisco Traffic Company & Forensic Services Division*
  San Francisco Forensic Science Lab Building - Vibration Consulting - San Francisco, CA
- ***HOK*** *– The Pennsylvania State University*
  Chemical & Biomedical Engineering Building - Vibration and Acoustical Consulting - University Park, PA
- ***HOK*** *– Rowan University/Rutgers Camden*
  Joint Health Sciences Center - Vibration and Acoustical Consulting - Camden, NJ
- ***HOK*** *– Emory University*
  Health Sciences Research Building II - Vibration and Acoustical Consulting - Atlanta, GA
- ***HOK*** *– National Institutes of Health (NIH)*
  Surgery, Radiology & Lab Medicine Building - Vibration and Acoustical Consulting - Bethesda, MD
- ***HOK*** *– GlaxoSmithKline*
  Project Hawk Vaccines HQ for GSK - Vibration Consulting - Cambridge, MA
- ***HOK*** *– University of Miami Health System*
  Sylvester Comprehensive Cancer Center Research Building - Vibration and Acoustical Consulting - Miami, FL

1350 Old Bayshore Highway, Suite 799, Burlingame CA 94010
www.colingordon.com
(415) 570-0350

RWDI FIRM PROFILE

RWDI OVERVIEW

RWDI USA LLC.
Incorporated in Michigan
2239 Star Court
Rochester, MI 48309 USA

RWDI has deep, long-standing, and companywide expertise in wind flows around buildings, microclimate effects, ventilation, and computational fluid dynamics modeling. We draw collaboratively on this expertise throughout the consultation, from choosing the right modeling strategy for your needs to interpreting the results in the larger context of your whole project so that we can help you design healthier, higher performing spaces.

We understand that there are many moving parts in a design process, and we partner with you and your team to navigate these complex issues. We can help you solve an existing air quality problem, proactively design a retrofit or renovation, or avoid issues in new construction. Whether you have a simple question about placement or broader concerns about an unusual building geometry, we help you zero in on the critical issues in your design. Then we deliver advice and creative solutions specific to your concerns and design goals. We are very familiar with air quality issues specific to many sectors, including healthcare, laboratory/research, manufacturing, commercial, institutional, and residential projects, data centers, and transportation facilities.

Our key service is providing practical design advice. First we model how exhaust disperses in the presence of buildings and structures, and then we predict where it will go. We build a clear picture of how the wind interacts with these structures to affect the dispersal and transport of pollutants and odors. We predict whether the exhaust will re-enter a building (often called re-entrainment), affect a neighbor or outdoor area, affect equipment, or affect other parts of the building or its systems. To do this, we leverage our experience, supported by the use of numerical or physical models—or both if needed.

rwdi.com

MICHAEL BLADES FIRM PROFILE

Michael Blades & Associates, Ltd
Elevator and Escalator Consulting

Michael Blades & Associates, Ltd. (MBA) is a consulting firm that serves the needs of owners, developers, and managers, as well as architects and design professionals. We specialize in consulting services in the field of elevators and vertical and horizontal transport systems for people and materials. This embraces the overall movement of people and material in commercial buildings. The specific issues addressed in our typical scope of work include vertical and horizontal transportation systems, and material handling systems. MBA provides a full range of services including concept planning, design development, preparation of bid documents and construction administration.

MBA provides problem-solving solutions through our professional expertise and outstanding technical ability. We have tremendous success with clients who demand attention to detail, and prompt service.

MBA is thoroughly knowledgeable in all forms of vertical transport equipment including elevators, escalators, powered scaffolding, dumbwaiters, automated conveyors, materials lifts, etc. MBA is experienced with the horizontal people and material movement systems currently available. We maintain a full working knowledge of the latest state-of-the-art in controls and equipment. We are up to date on all current Code requirements and are uniquely aware of those pending changes or reconsideration. Our principals are accredited elevator safety inspectors and elevator safety inspector supervisors.

Our experiences range from a single elevator to 100+ elevators and escalators in a mega high rise office building. We are involved with many premier property managers, owners, developers, and architects throughout the country.

In fact, the principals at MBA have been directly involved in over 11,000 elevator and escalator renovation / modernization projects and over 8,000 elevator and escalator new design projects. MBA's consulting experience and knowledge of elevators and escalators is unmatched in the industry. We provide guidance, maintain schedules and budgets, with quality cost effective solutions.

Experience

Michael Blades and Associates senior management team averages more than 30 years of industry experience – encompassing all aspects of vertical transportation in new and existing buildings. Our abilities are related to our talented team of professionals who have dedicated their careers to the vertical transportation industry.

With over 150 years of senior management experience, we are well-qualified to advise you in all facets of vertical and horizontal transportation. We know both current and legacy products and services available from manufacturers and service providers.

At Michael Blades & Associates, we provide tailored solutions to help our clients undertake and successfully complete elevator and escalator projects on time and within budget. We have the size, scale, and scope of services to handle all needs locally, nationally and internationally.

Working with team synergy, Michael Blades & Associates offers you the advantage of having a world-class elevator and escalator consulting firm as your partner.

MBA is headquartered in the Washington D.C., Virginia, and Maryland areas, but we serve all USA and international markets with representation throughout. We work in close nexus with building owners, developers, and managers, as well as architects and other real estate professionals. We offer a full spectrum of services related to vertical and horizontal transportation systems.

MICHAEL BLADES SMALL BUSINESS CERTIFICATION

Michael Blades & Associates, Ltd
Elevator and Escalator Consulting

May 12, 2023

To Whom It May Concern

Re: Small Business Status

Michael Blades & Associates, Ltd. maintains its small business status.

We are a State of Maryland based S corporation in good standing. This identifies us as a small business in this geographical location.

We also are considered a small business as defined by the Federal Government. Our type of services are identified as NAICS Code 541330 Engineering Services. Our annual revenue is less than the small business size standard threshold of $16,500,000.

Sincerely,

B. Michael Blades
President

Phone 410.271.7979 • **Email** mblades@elevatormba.com

DC CONSOLIDATED LABORATORY LETTER OF RECOMMENDATION

GOVERNMENT OF THE DISTRICT OF COLUMBIA
DEPARTMENT OF GENERAL SERVICES

Capital Construction Division

July 9, 2013

Susan Klumpp Williams
Senior Principal, Management Principal
3223 Grace Street NW
Washington, DC 20007

RE: DC Consolidated Forensic Laboratory

Dear Susan Klumpp Williams:

The purpose of this letter is to express my appreciation to HOK for the services that were provided to The Department of General Services (DGS) for the new District of Columbia Consolidated Forensic Laboratory. As the Project Manager at DGS for this contract, I was incredibly pleased with the professionalism and dedication demonstrated by the HOK team of experts under your leadership.

The Consolidated Forensic Laboratory combines DC's public safety, forensic science, and public health efforts into one 350,000 sf, award winning facility. The co-location of multiple agencies into one dedicated facility will improve the efficiency and speed of lab work in criminal investigations, and enable the city to solve crimes faster and identify threats faster. Our Mayor called the completion of this project one of the most important accomplishments of his Administration.

The HOK team provided a full range of architecture, laboratory planning, interior design, landscape architecture, and sustainable design services. The design team immersed itself in our goals and objectives, and articulated our vision by designing a facility that translates the District's long-range goals in advancing and improving our public safety support, and criminal justice investigation capabilities.

In addition, HOK exceeded the mandated LEED sustainability goals, to achieve the highest level of LEED Certification available (Platinum), still producing an affordable and beautiful design that reduces the building's environmental impact and produces a structure as high tech as the work taking place within it.

Based on the building's success, DGS has leveraged the new facility to develop design tools and training for use by our internal project managers and outside architecture and engineering consultants. We have the high performance of the HOK team to thank for that accomplishment.

Please contact me if I can be of any future assistance in articulating the positive experience we shared with HOK.

Sincerely,

Allam Al-Alami
Executive Program Manager, Capital Construction Division
D.C. Department of General Services

2000 14th St. NW, 8th Floor Washington DC 20009 | Telephone (202) 727.2800 | Fax (202) 727-7283

UPMC MERCY PAVILION LETTER OF RECOMMENDATION

UPMC LIFE CHANGING MEDICINE
Corporate Construction and Real Estate

UPMC CCRE - Planning, Design, Signage & Space

UPMC, US Steel Tower, 60th Floor, Rm 6057
600 Grant Street, Pittsburgh, PA 15219
Phone: 412-647-8503

November 20, 2020
RE: Mercy Vision and Rehabilitation Tower

I am happy to submit this letter of recommendation on behalf of HOK.

HOK recently completed design for our new 408,000 square foot Vision & Rehabilitation Tower at UPMC Mercy. This new ambulatory care and transitional research center is a state-of-the-art academic facility that is designed to position UPMC at the global forefront of rehabilitation and ophthalmic research and care. Our new facility will include (8) ambulatory operating theaters, outpatient clinics in a flex-module format, and support functions, and advanced rehabilitation program. Constructed to support and attract the very best physicians, researchers, and educators, this facility will support a full bed-to-bench translational research platform to support collaborative blending of all three missions.

We are striving to implement flexible and efficient interdisciplinary clinic module that will enable our programs to flex and adapt over time to universally support general practice patterns. HOK's process engaged physicians, surgeons, researchers and alternative/support providers an innovative LEAN operational mapping process to bring all together in a comprehensive and collaborative design. HOK's iconic design will support and advance UPMC's branding, recruitment, and international awareness to position our program as *the* leader amongst our peers.

As part of this project, HOK worked with Chris Downey, AIA, one of the world's few practicing blind architects. Together, HOK and Mr. Downey combined to create an environment tailored for our eye patients and those with disabilities through the use of sound, materials, textures, and lighting to facilitate navigation through the building. HOK's collaborative and engaging process in working with Mr. Downey elevated the design of our facility by identifying and designing towards those features and elements that best enhance the value of our patient and staff experience.

With the facility now under construction, we continue to work with HOK to bring our vision to life. We are working hand and hand to face the challenges of constructing on a tight, urban site, and are now seeing the structure rise from the ground. All through design and now into construction, HOK has proven to be a true and trusted partner for us. We have appreciated their insight, vision, and dedication to ensuring our project's success, and we can envision further collaboration as we build the future of UPMC.

I wish you great success on your upcoming project and am confident HOK can help you achieve the facility that you envision.

Sincerely,
Douglas C. Spies, AIA, MHA, LEED AP
UPMC - Senior Director of Architecture and Engineering

PBS PAST PERFORMANCE QUESTIONNAIRE

CONTRACT INFORMATION *(Contractor/Offeror to complete Blocks 1-4)*

1. CONTRACTOR/OFFEROR INFORMATION

Firm Name: HOK
Address: 3223 Grace Street NW, Washington, DC
Phone Number: +1 202 339 8700 DUNs Number: 806345344
Contact Name: Aaron Altman
Email Address: aaron.altman@hok.com Contact Phone Number: +1 202 944 1548

2. GENERAL WORK INFORMATION

Work performed as: ☒ Prime Contractor ☐ Sub Contractor ☐ Joint Venture ☐ Other
(Please explain):
Percent (%) of project work performed: HOK managed 100% of this contract.
If a subcontractor, who was the prime (Name/Phone #): N/A

3. CONTRACT INFORMATION

Contract Number: HHSN292201500008I
Delivery/Task Order Number (if applicable): Various
Contract Type: ☒ Firm Fixed Price ☐ Cost Reimbursement ☐ Other (Please explain)
Contract Title: NIH IDIQ $50M Unrestricted IDIQ
Contract Location: Bethesda, Maryland

Award Date (mm/dd/yy): 02/22/2016
Contract Completion Date (mm/dd/yy): 02/21/2021
Actual Completion Date (mm/dd/yy): 02/21/2021 (Current Tasks Ongoing)
Explain Differences: N/A

Original Contract Price (Award Amount): $50,000,000
Final Contract Price (*to include all modifications, if applicable*):
Currently $46,320,000 Explain Differences: N/A

4. PROJECT DESCRIPTION

Complexity of Work: ☒ High ☐ Med ☐ Routine
How is this project relevant to project of submission? (*Please provide details such as similar equipment, requirements, conditions, etc.*) Federal Agency as Client, IDIQ Contract, Proposed Key Personnel served in Similar Role on this Contract, Task Orders of similar Size, Scale, Complexity to this Contract.

INSTRUCTIONS FOR CLIENTS COMPLETING THIS QUESTIONNAIRE: PBS requests that the client completes this questionnaire and submits it directly back to the offeror. The offeror will submit the completed questionnaire to PBS with their proposal and may duplicate this questionnaire for future submission on PBS solicitations. Clients are highly encouraged to submit questionnaires directly to the offeror. However, questionnaires may be submitted directly to PBS. Please contact the offeror for PBS POC information. The government reserves the right to verify any and all information on this form.

PBS Past Performance Questionnaire
July 2014

Use the following adjective ratings and definitions in your evaluation of the Contractor's performance.

RATING	DEFINITION	NOTE
(E) Exceptional	Performance meets contractual requirements and exceeds many to the Government/Owner's benefit. The contractual performance of the element or sub-element being assessed was accomplished with few minor problems for which corrective actions taken by the contractor was highly effective.	An Exceptional rating is appropriate when the Contractor successfully performed multiple significant events that were of benefit to the Government/Owner. A singular benefit, however, could be of such magnitude that it alone constitutes an Exceptional rating. Also, there should have been NO significant weaknesses identified.
(VG) Very Good	Performance meets contractual requirements and exceeds some to the Government's/Owner's benefit. The contractual performance of the element or sub-element being assessed was accomplished with some minor problems for which corrective actions taken by the contractor were effective.	A Very Good rating is appropriate when the Contractor successfully performed a significant event that was a benefit to the Government/Owner. There should have been no significant weaknesses identified.
(S) Satisfactory	Performance meets minimum contractual requirements. The contractual performance of the element or sub-element contains some minor problems for which corrective actions taken by the contractor appear or were satisfactory.	A Satisfactory rating is appropriate when there were only minor problems, or major problems that the contractor recovered from without impact to the contract. There should have been NO significant weaknesses identified. Per DOD policy, a fundamental principle of assigning ratings is that contractors will not be assessed a rating lower than Satisfactory solely for not performing beyond the requirements of the contract.
(M) Marginal	Performance does not meet some contractual requirements. The contractual performance of the element or sub-element being assessed reflects a serious problem for which the contractor has not yet identified corrective actions. The contractor's proposed actions appear only marginally effective or were not fully implemented.	A Marginal is appropriate when a significant event occurred that the contractor had trouble overcoming which impacted the Government/Owner.
(U) Unsatisfactory	Performance does not meet most contractual requirements and recovery is not likely in a timely manner. The contractual performance of the element or sub-element contains serious problem(s) for which the contractor's corrective actions appear or were ineffective.	An Unsatisfactory rating is appropriate when multiple significant events occurred that the contractor had trouble overcoming and which impacted the Government/Owner. A singular problem, however, could be of such serious magnitude that it alone constitutes an unsatisfactory rating.
(N) Not Applicable	No information or did not apply to your contract	Rating will be neither positive nor negative.

PBS Past Performance Questionnaire
July 2014

TO BE COMPLETED BY CLIENT

CLIENT INFORMATION

Client Point of Contact Information

Name: Rozario A.(Tony) Francis
Title: Director OHPE
Phone Number: 301-594-6472
Email Address: francroz@mail.nih.gov

Project Information

Contract Type: Firm Fixed Price
Contract Title: NIH IDIQ $50M Unrestricted IDIQ
Contract Location: Bethesda, Maryland

Describe your role in the project: Program Manager: Surgery Radiology & Lab Med addition to hospital and two infrastructure projects

Date Questionnaire was completed (mm/dd/yy): 05/20/2021

Client's Signature: Rozario A. Francis -S Digitally signed by Rozario A. Francis -S Date: 2021.05.20 10:35:45 -04'00'

Instructions: Please select the adjective rating that best reflects your evaluation of the contractor's performance.

1. QUALITY:	E	VG	S	M	U	N
(a) Quality of technical data/report preparation efforts.	X					
(b) Ability to meet quality standards specified for technical performance.	X					
(c) Timeliness/effectiveness of contract problem resolution without extensive customer guidance.	X					
(d) Adequacy/effectiveness of quality control program and adherence to contract quality assurance requirements (without adverse effect on performance).	X					
2. SCHEDULE/TIMELINESS OF PERFORMANCE:	**E**	**VG**	**S**	**M**	**U**	**N**
(a) Compliance with contract delivery/completion schedules including any significant intermediate milestones. *(If liquidated damages were assessed or the schedule was not met, please address below.)*	X					
(b) Rate the contractor's use of available resources to accomplish tasks identified in the contract.	X					
3. CUSTOMER SATISFACTION:	**E**	**VG**	**S**	**M**	**U**	**N**
(a) To what extent were the end users satisfied with the project?	X					
(b) Contractor was reasonable and cooperative in dealing with your staff (including the ability to successfully resolve disagreements/disputes; responsiveness to administrative reports, businesslike and communication).	X					
(c) To what extent was the contractor cooperative, businesslike, and concerned with the interests of the customer?	X					
(d) Overall customer satisfaction.	X					
4. MANAGEMENT/ PERSONNEL/LABOR	**E**	**VG**	**S**	**M**	**U**	**N**
(a) Effectiveness of on-site management, including management of subcontractors, suppliers, materials, and/or labor force?	X					
(b) Ability to hire, apply, and retain a qualified workforce to this effort.	X					

4. MANAGEMENT/ PERSONNEL/LABOR - *Continued*	E	VG	S	M	U	N
(c) Government Property Control.	X					
(d) Knowledge/expertise demonstrated by contractor personnel.	X					
(e) Utilization of Small Business concerns.		X				
(f) Ability to simultaneously manage multiple projects with multiple disciplines.	X					
(g) Ability to assimilate and incorporate changes in requirements and/or priority, including planning, execution and response to Government changes.	X					
(h) Effectiveness of overall management (including ability to effectively lead, manage and control the program).	X					
5. COST/FINANCIAL MANAGEMENT	**E**	**VG**	**S**	**M**	**U**	**N**
(a) Ability to meet the terms and conditions within the contractually agreed price(s)?	X					
(b) Contractor proposed innovative alternative methods/processes that reduced cost, improved maintainability or other factors that benefited the client.	X					
(c) If this is/was a Government cost type contract, or a CMc/CMc at Risk Contract, please rate the Contractor's timeliness and accuracy in submitting monthly invoices with appropriate back-up documentation, monthly status reports/budget variance reports, compliance with established budgets and avoidance of significant and/or unexplained variances (under runs or overruns).						X
(d) Is the Contractor's accounting system adequate for management and tracking of costs? (*If no, please explain in comment section below.)*	☑ Yes		☐ No			
(e) If this is/was a Government contract, has/was this contract been partially or completely terminated for default or convenience or are there any pending terminations? (*Indicate if show cause or cure notices were issued, or any default action in comment section below.)*	☐ Yes		☑ No			
(f) Have there been any indications that the contractor has had any financial problems? (*If yes, please explain in the comment section below.)*	☐ Yes		☑ No			
6. SAFETY/SECURITY	**E**	**VG**	**S**	**M**	**U**	**N**
(a) To what extent was the contractor able to maintain an environment of safety, adhere to its approved safety plan, and respond to safety issues? (Includes: following the users rules, regulations, and requirements regarding housekeeping, safety, correction of noted deficiencies, etc.).		X				
(b) Contractor complied with all security requirements for the project and personnel security requirements.		X				
7. GENERAL	**E**	**VG**	**S**	**M**	**U**	**N**
(a) Ability to successfully respond to emergency and/or surge situations (including notifying COR, PM or Contracting Officer in a timely manner regarding urgent contractual issues).	X					
(b) Compliance with contractual terms/provisions *(If there were specific issues, please explain in the comments sections below*	X					
(c) In summary, provide an overall rating for the work performed by this contractor.	X					

8. SUSTAINABILITY	
Did this project include sustainable methods, materials, processes or certifications? (See Whole Building Design Guide for acceptable requirements. Link to guide WBDG Green Building Standards and Certification Systems.) *(If yes, please explain in the comments section below.)*	☑ Yes ☐ No
9. SUMMARY	
Would you hire or work with this firm again? *(If no, please explain in the comments section below.)*	☑ Yes ☐ No

COMMENTS SECTION
Please provide additional information below, and attach additional pages if necessary.

Please provide responses to the above questions (if applicable) and/or additional remarks. Also please provide a brief narrative addressing specific strengths, weaknesses, deficiencies, or other comments which may assist our office in evaluating performance risk *(please attach additional pages if necessary)*:

Item 8. Performed Environmental site assessments for LEED HC, developed checklist, sustainability, energy model etc., for LEED Gold registration

PROGRAM IDENTIFICATION

A. CONTRACTOR: Hellmuth, Obata + Kassabaum (HOK)
(Company name/Division)

B. CONTRACT NUMBER: SFO #9MD0023

C. CONTRACT EFFORT OR PROGRAM TITLE: NOAA Center for Weather and Climate Prediction

D. BRIEF DESCRIPTION OF CONTRACT EFFORT OR TASK:
This new office and research complex is the centerpiece of the largest planned research park in the national capital region. HOK provided architecture, interior design, landscape architecture, and sustainable design services.

E. CONTRACT TYPE: Fixed price
(FIXED PRICE/COST REIMBURSABLE OR OTHER)

F. ESTIMATED AMOUNT/ANNUAL VOLUME OF SERVICE: $97M

G. PERIOD OF PERFORMANCE: 5/05 – 07/12

PAST PERFORMANCE EVALUATION

I. MANAGEMENT ABILITY

1. The contractor provided experienced executives including project manager and supervisors and replacements with the technical and administrative qualifications required to meet the contract requirements. (E) S M U N/A
HOK provided very knowledgeable senior managers on our project.

2. The contractor's delegation of authority to project manager and supervisors met contract requirements. (E) S M U N/A

3. The contractor provided adequate resources (personnel/equipment) in each specialty necessary to fulfill contractual requirements. (E) S M U N/A

4. The contractor provided effective emergency response actions and corrective actions to cover incidents such as: disruption of utilities, accidents, material shortages, safety, security, and hazardous materials handling incidents. E S M U (N/A)

II. BONDING POTENTIAL

Contractor met initial bonding requirements and provided consent of surety for increased bonding as work-in-progress increased. E S M U (N/A)
This was only for design + engineering services.

III. QUALITY CONTROL

1. Contractor provided effective Quality/ Inspection procedures and personnel to meet contract requirements. (E) S M U N/A
HOK walked the project before every project meeting.

2. When deficiencies were reported, the contractor took effective corrective actions pursuant to their Quality Control procedures. (E) S M U N/A

3. Contractor completed projects and subsequent corrective actions, including punch-list items, in a timely manner. (E) S M U N/A
HOK was very responsive.

IV. SUBCONTRACTORS

1. Contractor paid subcontractors in a timely manner. E S M U (N/A)

I was not directly involved with the payment of design + engineering consultants.

V. COST/PRICE

1. The contractor provided accurate and timely proposals for change orders. (E) S M U N/A

VI. GENERAL

Given the opportunity, would your organization enter a contractual relationship with this contractor in the future? (Yes) No

Great design. Unique, functional, green and a very inviting building. (Also award winning design) (AIA and ENR)

VII. RESPONSE INFORMATION

THE FOLLOWING INFORMATION WILL ASSIST IN THE ANALYSIS OF THE DATA. THIS INFORMATION WILL BE KEPT CONFIDENTIAL.

A. Name of evaluator: ERIC LIVINGSTON
B. Office symbol address: NOAA/OCAO/PPMD
1305 East West Hwy, Silver Spring, MD 20910
C. Phone/FAX/Email: 301-713-9808 x 159 (phone); eric.livingston@noaa.gov
D. Position/Title: Portfolio/Project Manager
E. Length of involvement in Program/Contract: 7 years
F. Source of Information/Documentation utilized to rate Performance Level: Personal experience with HOK
G. Date Questionnaire Completed: 1/24/2013

VIII. COMMENTS

NOTE: ADDITIONAL COMMENTS ARE ENCOURAGED.

Our scientists and staff are exceptionally pleased with the design of our new facility.

Past Performance - Questionnaire

Thank you in advance for filling out this questionnaire for HOK. We understand that your time is very valuable, and we appreciate your input. Understanding how the building and design are performing helps us to continue to learn and improve.

GENERAL INFORMATION

Project name: NEW JERSEY PUBLIC HEALTH ENVIRONMENTAL AGRICULTURAL LABORTORY (NJPHEAL)

Address: 3 SCHWARZKOPF DRIVE, EWING, NJ 08628

Client/Agency: NJ BUILDING AUTHORITY

RESPONDANT INFORMATION

Name: RAYMOND A. ARCARIO

Title: EXECUTIVE DIRECTOR

Phone: 609-943-4836

Email: RAYMOND.ARCARIO@TREAS.NJ.GOV

PAST PERFORMANCE RATING: Choose the number on the scale of 1-3 that most accurately describes the design firm's performance or situation.

N/A	1	2	3	4
Not applicable	Unsatisfactory	Satisfactory	Very Good	Exceptional
No information, cannot speak to, or did not apply to your contract.	Performance does not meet most contractual requirements and recovery is not likely in a timely manner. The Contractual performance of the element or sub-element contains serious problem(s) for which the design firm's corrective actions appear or were ineffective.	Performance meets minimum contractual requirements. The contractual performance of the element or sub-element contains some minor problems for which corrective actions taken by the design firm were effective.	Performance meets contractual requirements and exceeds some to the client/owner's benefit. The contractual performance of the element or sub-element being assessed was accomplished with some minor problems for which corrective actions taken by the design firm were effective.	Performance meets all contract requirements and exceeds many to the owner's benefit. Problems, if any, were negligible and were resolved in a timely highly effective manner. benefit.

Overall Quality and Experience						
	Provided experienced designers, architects and project managers	N/A	1	2	3	4
	Provided technically correct designs, code compliant, and complying with contract requirements	N/A	1	2	3	4
	Met established project schedule	N/A	1	2	3	4
	Would you award another contract to this client				NO	YES
Design						
	Design Firm's interaction with the Owner when developing project requirements	N/A	1	2	3	4
	Building design supports the project goals	N/A	1	2	3	4
	Incorporated successful sustainable design strategies	N/A	1	2	3	4
Lab Design and Functionality						
	Lab design supports the scientific mission and met users' operational objectives?	N/A	1	2	3	4
	Lab space fosters collaboration and supports innovation?	N/A	1	2	3	4
	Demonstrated expertise with lab planning and design	N/A	1	2	3	4

Respondent Remarks:

HOK BROUGHT EXPERTISE AND LEADERSHIP TO OUR COMPLICATED PROJECT. THE NJPHEAL IS A WORLDCLASS LAB PROVIDING FACILITIES ACROSS A BROAD SPECTRUM OF STATEWIDE NEEDS. HOK WAS INVALUABLE IN PROVIDING THE DESIGN AND CONSTRUCTION ADMINISTRATIO IN AN EXEMPLARY MANNER. THROUGH CHANGES IN N.J LEADERSHIP, HOK WAS ADEPT IN PROVIDING ALL THAT WAS NECESSARY TO ADDRESS NEW STATE DIRECTIVES AND KEEP THE PROJECT ON TRACK. THE AWARD WINNING LABORATORY HAS SERVED THE NEEDS OF THE STATE VERY WELL EVEN AS THE NEEDS HAVE CHANGED DRAMATICALLY OVER THE LIFE OF THE LAB I OFFER MY HIGHEST RECOMMENDATION FOR HOK AND FOR DAVID SCHWARTZ AS AN EXCELLENT LEAD

ADDENDUM NO. 1 ACKNOWLEDGMENT FORM

ADDENDUM ACKNOWLEDGEMENT FORM
SOLICITATION NO.: GSD2400000002

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)

- ☑ Addendum No. 1
- ☐ Addendum No. 2
- ☐ Addendum No. 3
- ☐ Addendum No. 4
- ☐ Addendum No. 5
- ☐ Addendum No. 6
- ☐ Addendum No. 7
- ☐ Addendum No. 8
- ☐ Addendum No. 9
- ☐ 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.

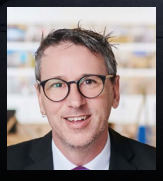
HOK
Company

Authorized Signature

11/14/2023
Date

NOTE: This addendum acknowledgement should be submitted with the bid to expedite document processing.

Revised 11/1/2022



Aaron Altman
Principal in Charge
aaron.altman@hok.com
+1 202-944-1548

3223 Grace St NW
Washington, DC 20007
www.hok.com