

Firm Overview

Each day gives us an opportunity to leave our mark on the world. Creating a Lasting Positive Impact through engineering, surveying, and environmental expertise is the primary focus of Draper Aden Associates. With over four decades of experience providing civil, environmental, geotechnical, solid waste, and structural engineering; surveying and subsurface utility engineering; site planning and engineering; and construction inspection services throughout the Mid-Atlantic region, we are more than just a set of plans; we are a way to achieve.

Established in 1972 in Blacksburg, Virginia, Draper Aden Associates has grown to become a leading Mid-Atlantic firm with an ever evolving focus on technology. Over the years, our company has expanded to Charlottesville, Hampton Roads, Manassas, and Richmond, Virginia and Coats and Fayetteville, North Carolina, with the goal of helping our clients realize a sustainable future.



In-House Teams

- Civil/Utilities Engineering
- Ecological Services
- Environmental Services
- Geotechnical Engineering
- Site Planning and Engineering
- Structural Engineering
- Subsurface Utility Engineering
- Surveying
- Waste Resource Engineering

AutoCAD Software (Latest Release)

- Civil 3D
- Raster Design
- Architecture
- Revit
- Carlson Survey
- Navisworks

Specialty Services

- Alternative Wastewater Treatment Systems
- Construction Administration and Inspection
- Environmental/Computer Modeling
- Funding Assistance
- Geographic Information Systems (GIS)
- Geological/Hydrogeological Services
- Ground Penetrating Radar (GPR)
- Environmental Linear Permitting
- Materials Testing Laboratory
- Stormwater Management
- Sustainable Design/Low Impact Development
- Water Supply Planning

GIS/Modeling Software

- ESRI ArcGIS™ Suite
- Innovyze's InfoNET™
- DHI's MIKE URBAN

Draper Aden Associates is a Virginia SWaM certified small business enterprise, but our aspirations and capabilities are larger than our size would suggest. Whether it involves the creation of a water distribution system for an under-served community, restoration and reclamation of an environmentally degraded site, preservation of precious natural resources, sensitive development of new communities, or helping to enhance the campuses of institutions where the next generations will learn, what we do today can be looked back upon with pride tomorrow.



Section One

Areas of Firm Expertise

Blacksburg Corporate/Regional Office

2206 South Main Street
Blacksburg, Virginia 24060
Phone: 540-552-0444
Fax: 540-552-0291

Richmond Regional Office

8090 Villa Park Drive
Richmond, Virginia 23228
Phone: 804-264-2228
Fax: 804-264-8773

Hampton Roads Regional Office

703 Thimble Shoals Blvd. Suite C-2
Newport News, Virginia 23606
Phone: 757-599-9800
Fax: 757-599-3684

Raleigh Regional Office

46 W. Washington Street
Coats, North Carolina 27521
Phone: 910-897-7070
Fax: 910-897-6767

Charlottesville Regional Office

700 Harris Street, Suite E
Charlottesville, Virginia 22903
Phone: 434-295-0700
Fax: 434-295-2105

Fayetteville Regional Office

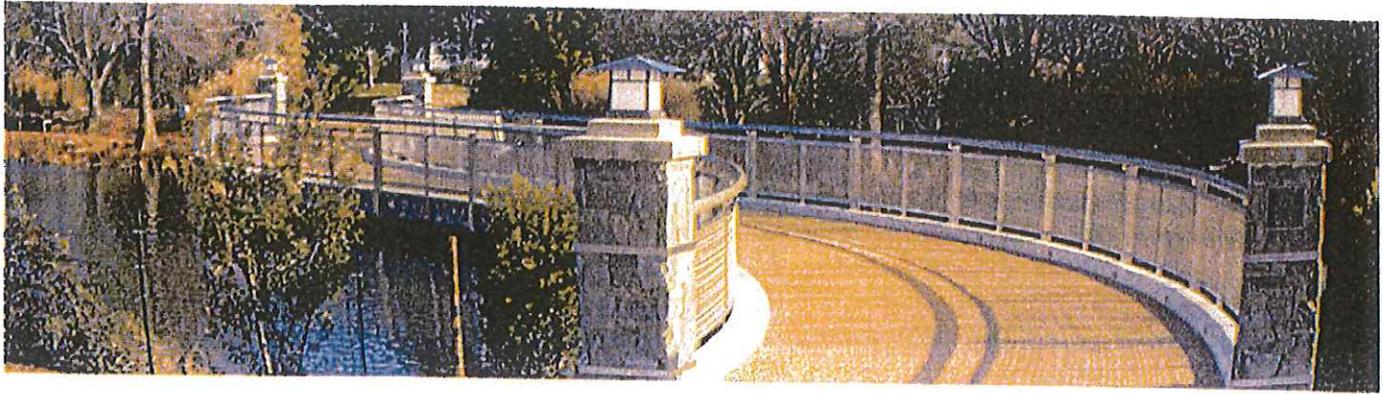
104 Gillespie Street
Fayetteville, North Carolina 28301
Phone: 910-486-0700
Fax: 910-897-6767

Northern Virginia Regional Office

7595 Coppermine Drive
Manassas, VA 20109
Phone: 703-479-7505



Draper Aden Associates
Engineering • Surveying • Environmental Services



Structural Engineering

Draper Aden Associates' Structural Engineering team includes a group of six professionals with over 125 years of combined experience. This group has worked together over an average of twelve years and has gained a broad background of experience in structural engineering for architects, contractors, and building owners with a wide variety of working styles and project requirements. Their experience combines practical construction knowledge with state-of-the-art engineering analysis and design techniques. Successfully completed design projects include work at schools and universities, parking structures, medical facilities, industrial buildings, office buildings, shopping centers, airport terminals, churches, assisted living centers, grocery stores, water and wastewater plants, and telecommunication structures. We provide a wide range of structural engineering services including:

- Structural Systems (including structural steel, light-gauge metal framing, reinforced concrete, pre-stressed concrete, structural wood and masonry for commercial, institutional, residential and telecommunications structures)
- Lateral Loading Analysis and Design (wind and seismic)
- Foundations and Retaining Structures (including drilled piers, piles, spread footings and mat foundations)
- Serviceability Analysis (including due diligence, feasibility studies, load capacity analysis of new and existing buildings)
- Forensic Investigations
- Bridge Analysis and Design
- Adaptive Reuse

The diversity of projects completed by our Structural Team has fostered a collaborative, client-focused approach to work. The team understands that a successful project for any client has one consistent mandate: quality. They also understand that the quality of communication between engineer and client is as important as the quality of the engineering. Their experience in the development of effective structural engineering solutions to a wide variety of problems is matched by their commitment to exceptional client service.

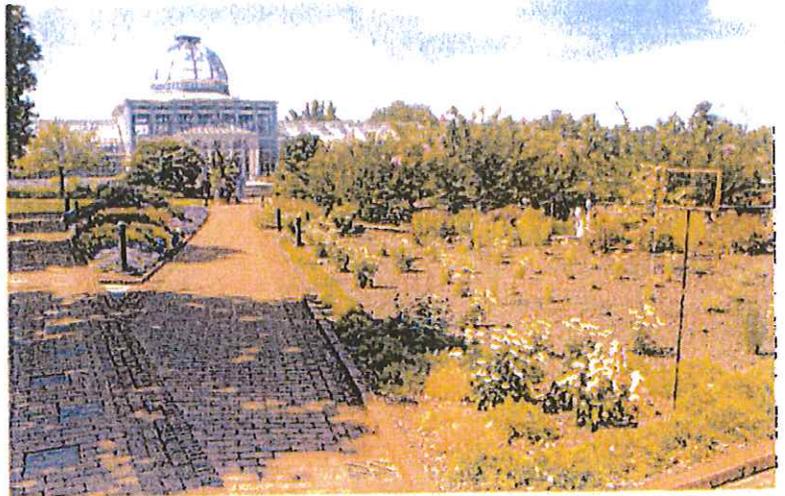
Site Planning and Engineering



Section One

Areas of Firm Expertise

Draper Aden Associates' Site Planning and Engineering team has the expertise to provide all elements of conceptual and final development plan preparation, site and utility layout, preparation of construction plans and specifications, contract administration, permitting and regulatory and municipal approvals. We have established successful working relationships with state and municipal officials that allow us to complete plans with fewer complications. In-house planners, engineers, and surveyors working as an integrated team enable us to bring comprehensive problem solving techniques to complex issues.



Our Site Planning and Engineering team includes registered Professional Engineers, planners, designers, landscape architects, inspectors, and technicians with extensive site development experience. Because we are a full-service civil engineering and environmental consulting firm, we also have specialists available to assist in environmental studies, drainage design, utility design, utility location, surveying, landscape design, GIS mapping, permitting, and other necessary areas of expertise. Our site planning and engineering services include:

- Site feasibility analysis
- Site selection
- Industrial, Commercial, Institutional and Residential Developments
- Facility Siting, Master Planning, and Design
- Sports Fields, Parks and Recreational Facilities
- Underground Power Transmission and Distribution
- Land Planning, Zoning and Land Use Studies
- Site Infrastructure Development and Rehabilitation
- Plan Review
- Sustainable Design/Low Impact Development
- Site Grading, Drainage, and Stormwater Management
- Demolition and Utility Relocation
- Environmental Evaluation and Permitting
- Streetscape Planning and Design
- Street and Highway Design
- Parking Lot Design
- Permitting Assistance
- Stormwater program development

Surveying and Geospatial Services



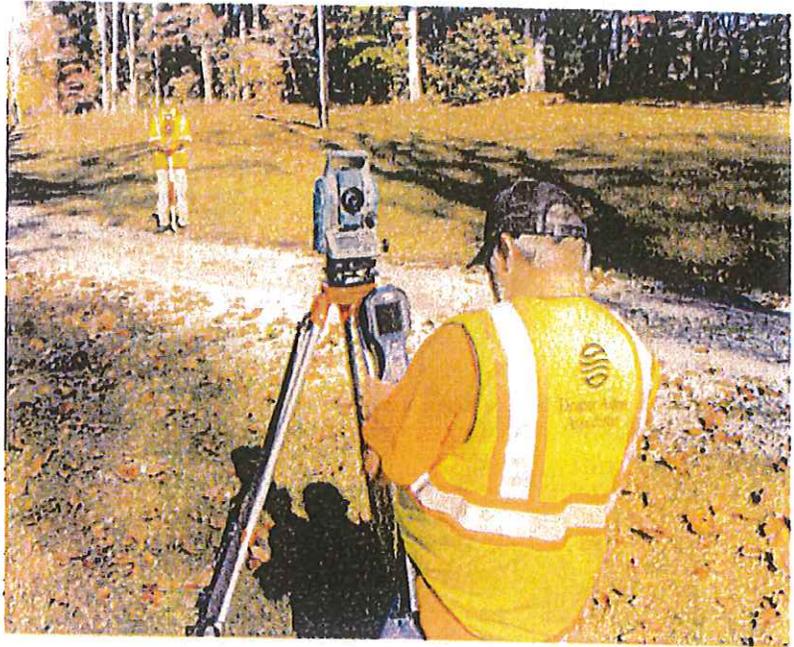
Draper Aden Associates
Engineering • Surveying • Environmental Services

Section One

Areas of Firm Expertise

Geospatial data is a critical and fundamental element for projects serving our communities. While these projects can support efforts for a political or construction goal, Draper Aden Associates has focused its efforts in collecting timely and accurate geospatial data for engineering efforts across the Mid-Atlantic. For over forty years, the Draper Aden Associates Surveying Division has honed internal procedures and acquired innovative technology to provide geospatial services that meet stringent Federal and State requirements.

Draper Aden Associates has performed thousands of field surveys, from small pump station boundary surveys to hundreds of acres of topographic surveying in an industrial facility. We have conducted right-of-way acquisition surveys for large complicated reservoirs to smaller single parcel or linear utility projects for subdivisions, towns, and cities.



Our Team has had tremendous success in combining our cutting-edge geospatial data collection technology and methodology in today's rapidly evolving geospatial community. We have incorporated Subsurface Utility Engineering (SUE) with traditional topographic field or aerial surveying and are known as a service leader in combining 3D laser scanning, bathymetric sonar, and even BIM techniques into a comprehensive mapping product. Within weeks we will offer our clients Aerial mapping products such as Digital Terrain Models, Orthomosaics and 3D spatial analysis from commercial flights of our small Unmanned Aerial System (sUAS).

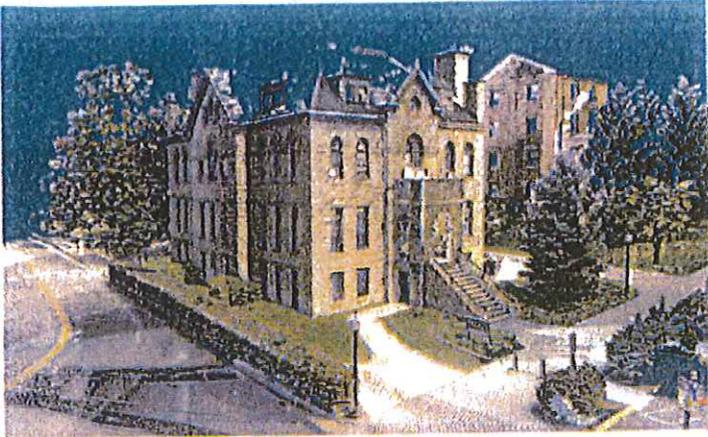
Through the on-going education and training of our personnel and the acquisition of state-of-the-art equipment, we can continue to offer our clients numerous value-added services including terra (3D) modeling, scan to BIM technology, GPS grading and earthwork, and robotic survey stakeout and base mapping. As an example, 3D Laser Scanning is an excellent way to quickly and efficiently survey the interior of an existing building for proposed utility and space management design.

We are also capable of providing construction stakeout surveys for most projects ranging from large heavy construction projects (municipal facilities, water and sewer lines, floodwalls, multi-floor buildings, highways, landfills, airports, and commercial sites) to green box convenience centers, cell towers, and other miscellaneous small survey projects.



Draper Aden Associates

Engineering • Surveying • Environmental Services



3D Laser Scanning Services

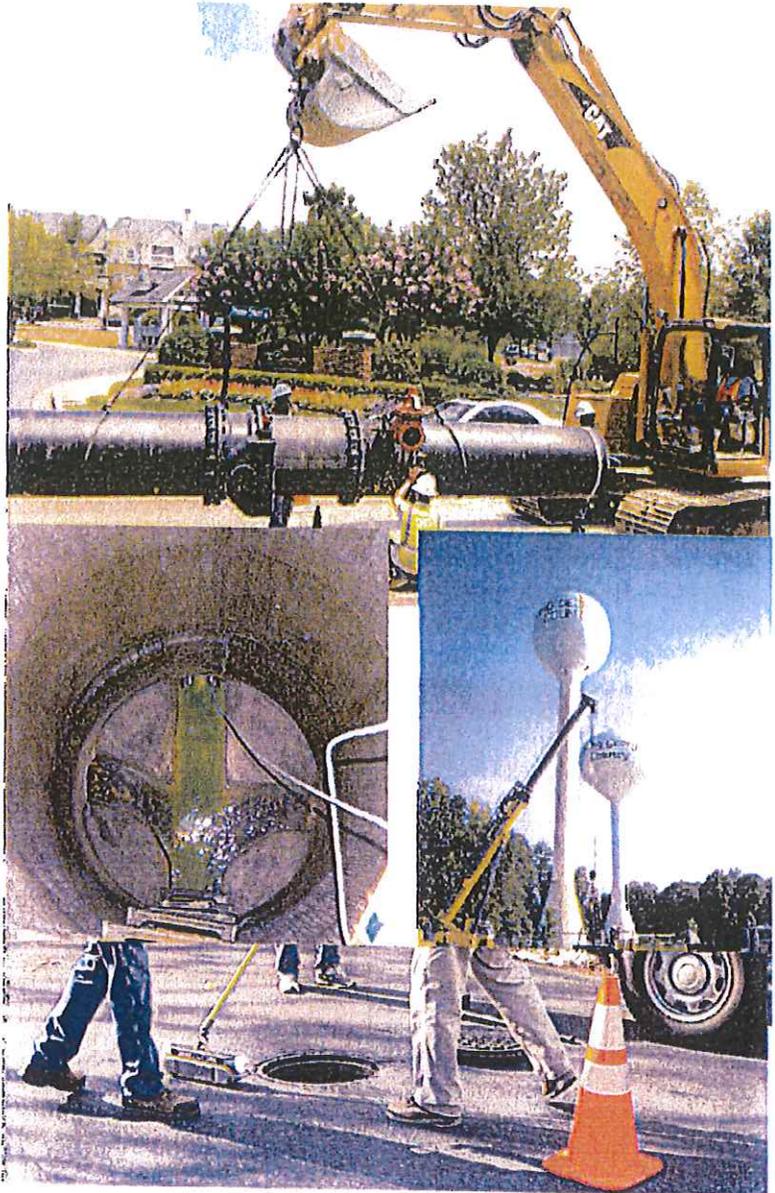
Like conventional survey procedures, the scanning survey data is located and recorded as X,Y,Z values. However, 3D laser scanning, unlike the "one-at-a-time" collection method of traditional surveying, collects millions of points per minute, creating a "point cloud". The point cloud is a true-scale 3D representation of what was scanned and can be exported into a variety of Cad or BIM based applications. With each 360° scan taking less than eight minutes, the benefits include a 3D "picture" of the area, replacing the need for traditional survey instruments, hand sketches and measurements, and the need to manually draft drawings based on the field data. The true as-built conditions provided can be utilized by architects, structural and civil engineers, surveyors, and GIS applications. 3D Laser Scanning data collection provides a level of accuracy, completeness, and efficiency that exceeds conventional techniques.



Utilities Engineering

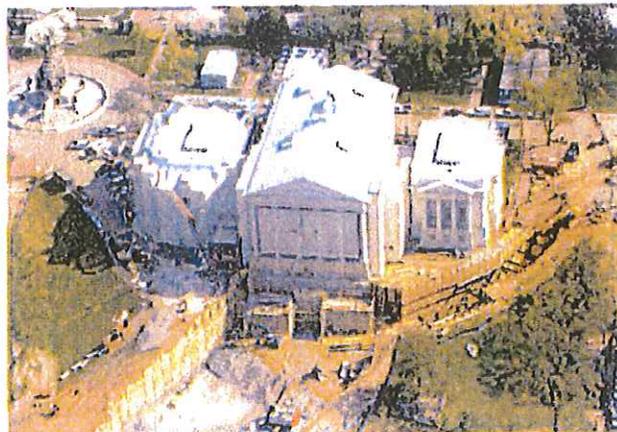
Our Utilities Engineering Team has completed hundreds of projects in the areas of wastewater treatment and collection, water source development, pumping, treatment, transmission, storage, and distribution. This experience includes master planning, preliminary design, final design, bid assistance, construction management, project inspection, facility start-up, and value engineering. We offer our clients extensive insight into what is buildable and realistic, as well as what can be done to improve facility design and operation. The utilities engineering services we offer you include:

- Preliminary Engineering Reports for Wastewater and Water Systems
- Funding Assistance
- Vulnerability Assessments and System Audits
- Wastewater Pretreatment Program Development
- Wastewater Collection and Treatment
- Watershed Management Engineering
- Water Supply Planning and Resource Development
- Water Treatment, Distribution, and Storage
- Fire Protection
- Systems Modeling and Rate Analyses
- Trenchless Technology Assessment/ Implementation
- Permitting and Easement Acquisition
- Bid Assistance and Contract Administration
- Construction Administration and Inspection
- Operations and Maintenance Assistance

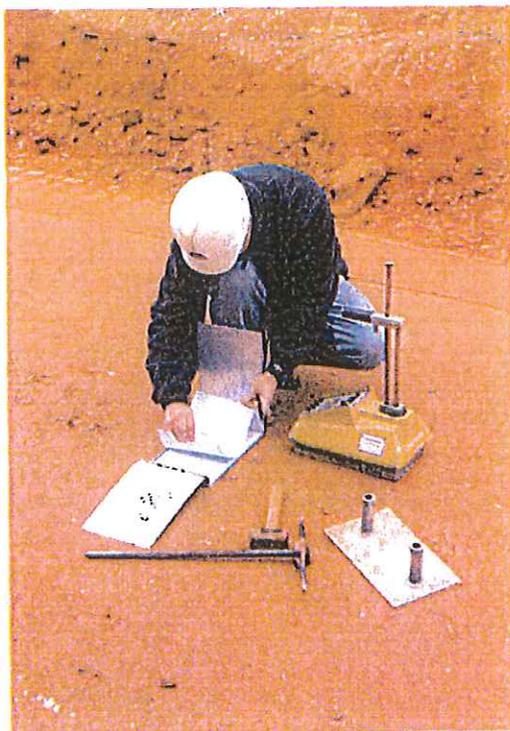


Geotechnical Engineering

Geotechnical Engineering is the foundation on which all constructed facilities bear. Draper Aden Associates is recognized as a leader in sophisticated geotechnical explorations and analyses. The stability of the foundation of a building, bridge, pavement section, or any other structure built on soil depends on the characteristics of the subsoil. Our geotechnical engineering team includes professional engineers, LEED APs, certified field technicians, and a testing laboratory qualified by the U.S. Army Corps of Engineers to perform soil and materials testing. We plan and execute subsurface explorations to fit your project needs and cost constraints.



Hidden structures beneath the soil can also be an obstacle to creating a solid foundation, or delay project construction, create unforeseen change orders, and pose a hazard to people and the environment. In collaboration with our in-house geophysicists, field seismic and electrical surveys and ground penetrating radar screens are used to economically identify rock, sinkholes, tanks and other hidden structures.



Once the field study yields critical site characteristics, our geotechnical team will evaluate the unique conditions and challenges of the site and provide foundation solutions tailored to our individual client's needs. Our experienced geotechnical staff has routinely recommended cost saving measures and value engineered hundreds of projects saving our clients money. With broad experience in the design of shallow and deep foundation systems and integration of subgrade densification and intermediate foundation systems, we strive to cultivate the most efficient foundation solution.

Our broad range of geotechnical experience includes residential and commercial buildings, government facilities, slope evaluation, transportation structures, pavement design and more. Coupled with our construction inspection services, Draper Aden Associates can provide the assurance that our design is implemented in the manner that it was intended.



Section One

Areas of Firm Expertise

Environmental Services

Protecting the environment and complying with the many local, state, and federal environmental regulations impacts all of us daily - whether you are a manufacturer, developer, farmer, or government entity.

The Environmental Services Team at Draper Aden Associates offers a balanced approach to addressing the environmental issues that confront you. Our staff of engineers, environmental scientists, geologists and soil scientists has the knowledge and experience to assist in effectively managing your environmental programs and projects. Some of our environmental services include:

- Linear Permitting
- Geophysical Services
- Regulatory Compliance
- Compliance Monitoring/Data Management
- Environment Audits / Assessments
- Waste Facility Groundwater Monitoring
- Surface Water Monitoring
- Site Environmental Characterization
- Data quality oversight
- Groundwater impact assessments
- Corrective Action
- Permitting and Planning
- Groundwater Development/Use/and Protection
- Water Supply Planning
- Brownfields and Funding Assistance
- Remediation – Mandatory and Voluntary



Draper Aden Associates
Engineering • Surveying • Environmental Services



Leslie S. Jeter, PE

Structural Engineering Project Manager

Mr. Jeter has over 30 years of experience in analysis and design of structural systems for commercial and institutional buildings as well as a broad background in highway and railroad bridges and structures. His work has involved the alteration, addition to existing buildings, and new construction. Specific areas of concentration are design of structural steel including LRFD methods, masonry walls (both reinforced and unreinforced), reinforced concrete, light-gage cold-formed steel, structural wood, shallow foundations and building review and evaluation.

**Associate; Program
Manager II**
12 years with the firm
30 years of experience

Office Location

- Richmond, VA

Education

- B.S./1985/Civil
Engineering/Virginia Tech

Professional Registration

- Professional Engineer/
1991/VA

Areas of Expertise

- LRFD Steel Design
- Masonry Walls
- Reinforced Concrete
- Light-gauge Cold-formed
Steel
- Structural Wood
- Building Review and
Evaluation

Smithfield Fire Station, Isle of Wight County, VA: Project Manager for the structural engineering for design of a new combined Volunteer Fire and Rescue Squad Facility in the Town of Smithfield. The existing Rescue Squad Facility was renovated and incorporated into the overall facility program.

Riverside Walter Reed Hospital Phase I and II Renovations, Gloucester Courthouse, VA: Structural Engineering Project Manager for the renovation and addition of a new shell space intended for use as a Lab adjacent to the existing CT Suite.

Riverside Walter Reed Hospital ICU Expansion, Gloucester Courthouse, VA: Structural Engineering Project Manager for the design of a new 7-10 bed ICU expansion. The proposed addition is a one-story addition to the existing facility.

Riverside Health System Tappahannock CT Lab, Tappahannock, VA: Structural Engineering Project Manager to determine suitability of existing building structure to support proposed new light boom equipment for a new CT Lab.

Charles City County Library, Charles City County, VA: Structural Engineering Project Manager for the schematic, design development, and construction documents for a 16,000 SF library at existing government complex.

East End Theater Renovation and Expansion, Richmond, VA: Structural Engineering Project Manager for the renovation (adaptive reuse) and expansion of an existing, condemned, historic movie theater and repurposing it to a multi-family residential building. This project was designed entirely through the use of our Virtual Construction (Scan to BIM) capabilities. The finished project contains approximately 46 residential apartments and 8,000 SF of retail space split between two sites.

Reynolds Medical Office Building, Henrico, VA: Engineer of Record for the design of a new 40,000 square foot two-story medical office building. Framing featured open web steel joists, steel beam, and column framing and concrete floor slabs and the foundations are reinforced concrete spread footings. This project involved the use of Autodesk Revit on a design team's Building Information Model (BIM).





David M. Maruskin, Esquire, PE, LEED® AP

Site Planning and Engineering Team Leader

Mr. Maruskin serves as the Site Planning and Engineering Team Leader and Project Manager in the Richmond Office. He practices Civil Engineering with an emphasis in land development and infrastructure coordination with regulatory and permitting agencies. Mr. Maruskin has worked with a variety of clients in the public and private sector.

Project Manager
8 years with the firm
15 years of experience

Education

- B.S./2001/Civil Engineering /Ohio University
- J.D./2008/Law/ Florida Coastal School of Law

Professional Registration

- Professional Engineer/ 2005
- LEED® Accredited Professional

Areas of Expertise

- Commercial, residential, governmental, and roadway construction drawings
- Drainage design
- Site layouts
- Grading and drainage
- Site utilities
- Specification writing (SpecsIntact, Master Spec)

City of Richmond Fire Station #17, Richmond VA: Project Engineer. Site Planning and Engineering services for the new Fire Station # 17 located on Semmes Avenue between West 22nd and 24th Streets on a portion of the Canoe Run Park. The station is targeted to earn LEED Certification.

Black Creek Fire/EMS Station, Hanover County, VA: Project Engineer for the surveying, subsurface utility engineering, site design, structural engineering, wetland delineation, septic drainfield design, and VSMP/SWPPP permitting for a new 11,000 SF Fire/EMS building located on a 6-acre site.

National Museum of the U.S. Army, Fort Belvoir, VA: Senior Project Engineer for the development of the capstone museum facility for the Army. This project involves the siting of a 190,000 GSF museum and exhibition gallery on an approximately 90-acre site on Fort Belvoir including new access from Fairfax County Parkway, utility extensions, and an extensive storm water management plan. David was involved with all aspects of earthwork including site grading and drainage, detailed cut/fill calculations including assessment of unsuitable materials, and erosion and sediment control design. His additional responsibilities included utility design and layout including potable water, fire water, and sanitary sewer; anti-terrorism and force protection layout and analysis; site circulation study and layout including automobiles, buses, and pedestrians; and specification writing/editing using SpecsIntact format. David also assisted with the staging plan for future expansion of both site elements and the main building.

Fort Belvoir Exterior Assessment of Hill Hall, Fort Belvoir, VA: Senior Project Engineer for the existing conditions assessment of site of historic building and assistance in preparation of SOW for actual rehabilitation of the exterior drainage system.

Confidential Office and System Operations Building, Henrico County, VA: Project Engineer for a confidential control center. Services included the comprehensive site selection and due diligence process, evaluation of 4 individual parcels in 2 Counties, preparation of due diligence studies with associated layouts, opinion of probable costs, assistance during the negotiations with the 2 Counties over the two highest ranking sites, County presentations for each site, rezoning assistance/support to DVP and their Real Estate Attorney, and attendance at rezoning hearing.





7 years with the firm
9 years of experience

Timothy C. Allen, PE

Staff Structural Engineer

Mr. Allen has gained experience in analysis and design of structural systems for industrial, commercial, and institutional buildings while utilizing skills in cutting edge technology. His work has involved the alteration, addition to existing buildings, and new construction. Specific experience includes his design of structural steel including LRFD methods, reinforced concrete, structural wood, cold-formed metal systems, retaining walls, shallow foundations, and building investigation and evaluation.

Charles City County Library, Charles City County, VA: Staff Structural Engineer for the schematic, design development, and construction documents for a 16,000 SF library at existing government complex.

Prince George County Branch Library, Prince George County, VA: Staff Structural Engineer for a new 10,000 SF County Branch library located at the County Government Complex.

East End Theater Renovation and Expansion, Richmond, VA: Structural Engineering Project Engineer for the renovation (adaptive reuse) and expansion of an existing, condemned, historic movie theater and repurposing it to a multi-family residential building. This project was designed entirely through the use of our Virtual Construction (Scan to BIM) capabilities. The finished project contains approximately 46 residential apartments and 8,000 SF of retail space split between two sites.

Collegiate Schools Academic Commons, Richmond, VA: Staff Structural Engineer for the structural design of a 24,000 SF 1-1/2 story academic commons building. It features structural steel framing, extensive exterior glazing, sloped roofs of various shapes, and light-gauge steel stud walls.

Capital One Multi-Purpose Building and Building 8, Goochland, VA: Structural engineering designer for REVIT model of exterior light gage framing for incorporation into overall project models for each building. Model used for coordination of exterior storefront and window openings. Work required coordination with general contractor, architectural model and all sub-contractor models.

Reynolds Medical Office Building, Henrico, VA: Staff Structural Engineer for the design of a new 40,000 square foot two-story medical office building. Framing featured open web steel joists, steel beam, and column framing and concrete floor slabs and the foundations are reinforced concrete spread footings. This project involved the use of Autodesk Revit on a design team's Building Information Model (BIM).

Education

- B.S./2006/ Civil Engineering (Minor Business Administration) /Clarkson University

Professional Registration

- Professional Engineer/ 2014/VA

Areas of Expertise

- BIM
- Revit
- Field Investigation
- LRFD Steel Design
- Masonry Walls
- Reinforced Concrete
- Light-gage Cold-formed Steel
- Structural Wood
- Building Review and Evaluation
- Building / Structure Modeling for Analysis / Design
- Advanced Structural Technologies



Collegiate School

Scott Carson, Director of Facilities Management & Construction
804-740-7077
scarson@collegiate-va.org

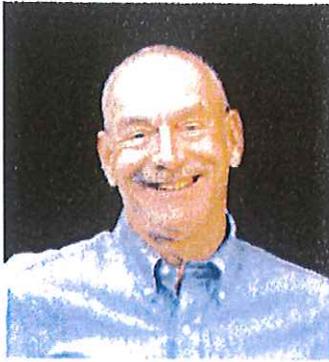
St. Christopher's School

Katie Chernau, Director of Construction
804-282-3185
kchernau@st.catherine's.org

Little Diversified Architectural Consulting

Malak Bahrami, PE
571-257-2865
Malak.Bahrami@littleonline.com





David W. Spriggs, PE

Structural Engineering Division Leader

Mr. Spriggs has a broad background of experience in analysis and design of structural systems for industrial, commercial, and institutional buildings. Much of his work has involved the alteration or addition to an existing building or facility, and consequently he is well versed in the complexities of integrating new structural elements into existing architectural and mechanical features. Specific experience includes his design of structural steel including LRFD methods, reinforced concrete, structural wood, cold-formed metal systems, retaining walls, shallow foundations and pile foundations, as well as troubleshooting of construction problems and facilities inspection and evaluation. Some of his experience includes developing and directing the application of Building Information Models (BIMs) for structural engineering in new and existing buildings.

Senior Program Manager
15 years with the firm
42 years of experience

Education

- B.S./1974/Civil Engineering/Syracuse University
- M.E./1982/Civil Engineering/University of Virginia

Professional Registration

- Professional Engineer/1978/VA
- Also a Registered Professional Engineer in NC, SC, FL, AL, WV, PA, MD, DE, and DC

Areas of Expertise

- LRFD Steel Design
- Masonry Walls
- Reinforced Concrete
- Light-Gage Cold-Formed Steel
- Structural Wood
- Building Review and Evaluation

Smithfield Fire Station, Isle of Wight County, VA: Principal for the structural engineering for design of a new combined Volunteer Fire and Rescue Squad Facility in the Town of Smithfield. The existing Rescue Squad Facility was renovated and incorporated into the overall facility program.

Louisa Town Hall, Louisa, VA: Principal structural engineer for the adaptive re-use of this 80+ year-old school building in downtown Louisa, using historic tax credits, as public meeting space and office spaces.

Riverside Walter Reed Hospital, Gloucester, VA: Principal Structural Engineer for Building Information Model (BIM) of a 12,000 SF 1-story intensive care unit expansion.

Port Warwick Medical Arts Phase II and III, Newport News, VA: Principal Structural Engineer for a new two-story, 53,000 SF medical office building and a two-story, 40,000 SF medical office building. The scope of work also included an ambulatory surgery center, imaging department laboratory, an ongoing treatment center, and a linear accelerator as well as an office.

Virginia Eye Institute, Henrico County, VA: Principal Structural Engineer for the new 1-story 16,500 SF clinical facility. The main standout feature of this building is a 1 ½ story all steel framed curtain wall lobby with sloping exterior walls and overhung sloped steel roof structure. Autodesk Revit was used to produce a model-based Building Information Model (BIM) benefiting design, simulation, visualization, and collaboration which was used to create an upfront overall well-coordinated project deliverable.

Libbie Mill Office Building A, Henrico, VA: Principal Structural Engineer for a 48,000 SF, 2-story building with 19,000 SF of retail occupancy at the first floor and 24,000 SF of office use above. This project involved the collaborative use of Autodesk Revit on a design team's Building Information Model (BIM).



FIRM OVERVIEW



Gateway Plaza

HERITAGE the history

The practice of Dunlap & Partners Engineers is built on a foundation of strong relationships. Since its beginning in 1987 as Lanna Dunlap & Spriggs, our partners and personnel have made building a relationship with our clients our highest priority. While other companies *claim* to be client-focused, we demonstrate it every day. We believe our clients and design partners benefit in numerous ways from our services, including clear communication, peerless technical quality, and dedicated commitment to fulfilling the project's needs.

SERVICES the skill set

Our primary services include mechanical, electrical, plumbing and fire protection engineering as well as commissioning services. In addition to professional registrations in the core disciplines, our team also includes LEED AP (Leadership in Energy and Environmental Design Accredited Professionals) and CPSP (Commissioning Process Specialist Professionals). We are proud members of the Greater Virginia Green Building Council (GVGBC). The melding of the core engineering disciplines in-house allows us to provide a more synchronized approach to your projects. We assist in creating the built environment of a facility by making it safe, comfortable and functional. As a complete multidisciplinary team, we can assist *your* team in creating a seamlessly successful project.

BENCH STRENGTH the team

Dunlap & Partners Engineers is guided by John Dunlap, PE and his years of experience in engineering consulting, design and project management. Adding to this seasoned leadership are supporting partners Warren Reed, Robert Lacy, Jr., John Cain, PE, Charles E. Ayers, III, PE and Paul Cimaglia, PE. In total, we offer our clients the bench strength of a team of highly qualified professionals and supporting staff. Our engineers are registered in 25 states and the District of Columbia.

APPROACH the methodology

We are guided by the basic principles of functionality and energy conservation in our M/E/P/FP systems design. We apply our broad technical expertise in the program development phase to explore systems options and make appropriate selections for design development. Our expertise includes LEED Accredited Engineers, Certified High Performance Building Design Professional, Certified ASHRAE 90.1 Engineers, Certified Healthcare Facility Design Professionals, Certified Energy Modeling Professionals, Engineers in leadership positions on national technical committees and 20+ years of design expertise each for the key personnel assigned to each project.

Richmond International Airport

University of Virginia South Lawn Phase I

CLIENTS Our Partnerships

OUR DESIGNS HAVE BEEN TESTED BY A BROAD BASE OF CLIENTS PARTNERS IN THE PROJECT PROCESS

Some of these valued partnerships

Governmental

Metro Richmond Convention & Visitors Bureau
U.S. Department of Defense
U.S. Veterans Administration
U. S. Army Defense General Supply Center
U. S. Army Corps of Engineers – Norfolk
Baltimore
Federal Reserve Bank of Richmond
Ft. Lee
Langley AFB
Quantico

VA Department of Mental Health
VA Department of Corrections
VA Department of General Services
VA Department of Housing Authority
VA Department of State Police
VDOT
Capital Region Airport
Commission
City of Richmond, Virginia
City of Richmond City Schools
County of Hanover, Virginia
County of Henrico, Virginia
County of Albemarle, Virginia
County of Chesterfield, Virginia
County of Fauquier, Virginia
County of Lunenburg, Virginia
County of Spotsylvania, Virginia

Hospitality

The Homestead Resort
The Jefferson Hotel
Hilton Short Pump
Hyatt Stonefield

Educational

Christopher Newport University
College of William and Mary
George Mason University
James Madison University
Longwood University
Norfolk State University
Radford University
University of Mary Washington
University of Richmond
University of Virginia
Virginia Commonwealth University
Virginia Tech University
Virginia State University
Private and Public Elementary, Middle and High Schools

Public Safety

Henrico Fire Station 8 & 5
City of Richmond Fire Station 1, 6, 8, 9, 10, 12, 17 & 22
Reagan & Dulles Fire & Rescue Station

Corporate/Institutional

Gateway Plaza
AMF Bowling Products
BB&T
Capital One
Comrad Industries
Glaxo, Inc.
Henrico Doctors Hospital
Hunton and Williams
John Randolph Hospital
Midlothian Enterprises
Safeway Supermarkets
Sbarro's Restaurants
MeadWestvaco
National Rural Electric Cooperative Assoc.
Virginia Power Company
Virginia United Methodist Homes
Wilton Development
Peter Jefferson Place IV
LeClair Ryan Law Offices
One Capital Square
Deep Run III
Travelers Insurance

Industrial

Swedish Match
Native Tobacco
Carpenter Company
Crown Cork & Seal
Philip Morris USA
UPS
TREX

Cultural

Fredericksburg Museum & Cultural Center
Jamestown-Yorktown Foundation
Lewis Ginter Botanical Gardens
Maymont Park
Pamplin Historical Park
R.R. Smith Center for Art & History
Science Museum of Virginia
Virginia Historical Society
Virginia Museum of Fine Arts
Woodrow Wilson Presidential Library

Religious

St. John's Church
Union Theological Seminary
1st Presbyterian
River Road Presbyterian
Mt. Union Zion



FIRM OVERVIEW

RECOGNITION . the track record

One of the "Top 20 Ongoing Construction Projects in Virginia (Virginia Business Magazine) – Richmond International Airport Expansion, Richmond, Virginia

ENCOMP (Metro Washington Energy Competition) Award for Thermal Storage Installation – Fredericksburg Baptist Church, Fredericksburg VA

State of Virginia Energy Award for Ice Thermal Storage Installation

ASHRAE Energy Award for Ice Thermal Storage Installation

Member of the "Fantastic Fifty" (Virginia's 50 Fastest Growing Companies)

Member of the Rising 25 (Metropolitan Richmond's 25 fastest growing companies)



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FAX: (804) 358-2928

www.dunlappartners.com

**FIRE STATION & PUBLIC SAFETY
PROJECT EXPERIENCE**

Dulles International Airport ARFF

Sterling, Virginia

Our firm provided design services for a new facility housing 5 apparatus bays, dormitory space, kitchen, 80 MHz communication system, cascade system and administrative areas. Construction Budget was \$8.5M.

Reagan National Airport – ARFF

Arlington, Virginia

Our engineers provided mechanical, electrical, and plumbing engineering design for a new 22,000 SF, two-story training facility. The facility is used to simulate aircraft fires and rescue procedures. Construction Budget was \$6.5M.

Norfolk International Airport – ARFF

Norfolk, Virginia

Our firm provided mechanical, electrical, and plumbing engineering design for this 1,800 SF, single-story training facility and two-story control tower. The facility is used to simulate aircraft fires and rescue procedures.

Loudoun County Fire Station Assessment

Loudoun County, Virginia

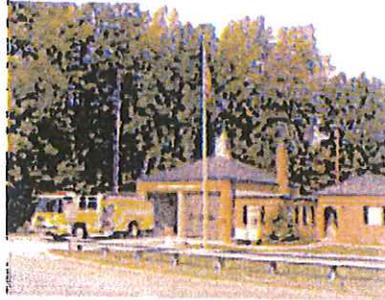
We provided mechanical, electrical, plumbing, fire protection, and fire alarm building utilities and building systems survey and a facilities assessment of 13 municipal fire and rescue stations.



James City County Fire Station # 4

James City County, Virginia

Mechanical, electrical, plumbing and fire protection design services were provided for this 11,700 SF fire house.



Henrico Fire Station #8

Henrico County, Virginia

Mechanical and electrical design was provided for total renovation of existing station. Work included new HVAC, plumbing and electrical systems for apparatus bay, dayroom, exercise room, kitchen and offices.

Public Safety Complex

Chesterfield, Virginia

Mechanical, electrical and plumbing design was provided for this multi-building training complex. The facility, used for training fire and police personnel, included a police support building, fire support building, fire training tower, and driver training observation tower.



Henrico Fire Station #5

DUNLAP & PARTNERS ENGINEERS

FIRE STATION & PUBLIC SAFETY

PROJECT EXPERIENCE

Henrico County, Virginia
Mechanical and electrical design was provided for renovation of apparatus bay. Work included new HVAC and electrical systems.



Winterpock Fire Station
Chesterfield, Virginia
Mechanical, electrical, plumbing, and fire protection design was provided for a new 12,000 SF, two-bay municipal fire station. The building included a fueling system, lightning protection, digital control system, and split-system constant volume HVAC system.



Wake County Fire and EMS Center
Wake County, North Carolina
Our firm provided assessed code deficiencies and equipment evaluation for mechanical, electrical, plumbing and fire protection systems, including 53 fire stations and Emergency Centers. Included assessment of equipment and systems life expectancy and possible replacement costs.

Beaverdam & Eastern Hanover Fire Stations
Hanover County, Virginia
Mechanical, electrical and plumbing design services were provided for these two identical 4,200 SF fire stations. Spaces include a training room, dining area, locker room, office and vehicle apparatus room.

Courthouse Fire Station
Hanover County, Virginia
Mechanical, electrical and plumbing design was provided for this 14,200 SF fire station. Spaces include a training room, dining area, locker room, office and vehicle apparatus room.

Rivers Bend Fire Station
Chesterfield, Virginia
Mechanical, electrical, plumbing, and fire protection design was provided for a new 12,000 SF, two-bay municipal fire station. The building included a fueling system, lightning protection, digital control system, and split-system constant volume HVAC system.

Dominion Resource Fire Training Center
Richmond, Virginia
Dunlap & Partners provided MEP for a new fire training center.
Budget: \$320,000
Completion: 2009
Contact: Bruce Lohr
Bruce.lohr@dom.com
804.771.3415



Raleigh Fire Stations #26 & 27 & EMS Center
City of Raleigh, North Carolina
Mechanical, electrical, plumbing design and construction administration was provided for two new fire stations for the City of Raleigh. A 911 center was also designed for Fire Station #26. Total square footage including the apparatus rooms was 10,000 and 7,000 SF, respectively. The 911 center electrical design included a 2-hour UPS battery system and an emergency generator. Both buildings were sprinkled. HVAC system included computer room equipment to control temperature and humidity. Airflow in the 911

DUNLAP & PARTNERS ENGINEERS
FIRE STATION & PUBLIC SAFETY
PROJECT EXPERIENCE

center is from raised floor area allowing for spot cooling of the high heat generating computers.

West Hanover Rescue Squad

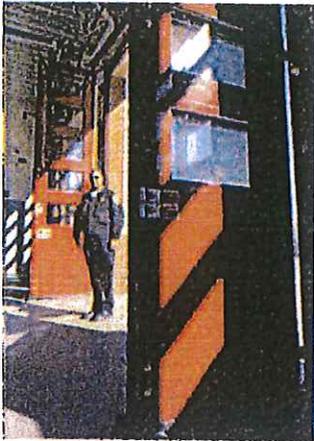
Hanover County, Virginia

Mechanical and electrical design was provided for a 9,000 SF rescue squad. Spaces included apparatus bay, community room, kitchen, meeting rooms and offices.

Mechanicsville Fire Station

Mechanicsville, Virginia

Mechanical and electrical design was provided for a 7,500 SF fire station. Spaces include apparatus bay, kitchen, exercise room, lockers and meeting rooms.



Fire Station # 17

Richmond, Virginia

Dunlap and Partners provided mechanical, electrical, plumbing and fire protection engineering design on this new 11,500 SF replacement fire station. Project included modern upgrades such as sing-use restrooms and bi-fold doors opening in 6 seconds allowing for quicker response time for firefighters. The budget was \$5.1M of which \$3.5 was funded by a federal grant. Project was LEED Silver certified 2014.

Contact: Lacy Salomone

804-646-2786

Gregory.salomone@richmondgov.com

City of Richmond Fire Stations #17 and 22

Richmond, Virginia

Dunlap and Partners provide services upgrades on these two city fire stations.

City of Richmond Fire Stations # 1, 6, 8, 10 & 12

Richmond, Virginia

Our electrical engineers provided electrical panel replacement, additions and upgrades to these five City of Richmond fire stations.

City of Richmond Fire Stations # 8 & 9

Richmond, Virginia

Dunlap and Partners provided HVAC upgrades on these two city fire stations.



John F. Dunlap, PE

Principal
Principal In Charge



EXPERIENCE and QUALIFICATIONS:

Mr. Dunlap has been involved in all aspects of mechanical engineering including, design of heating and cooling plants, ice storage HVAC systems, and plumbing systems. His projects include significant experience in heating, ventilating, and air conditioning systems for industrial, institutional, commercial and healthcare facilities. He is a certified energy manager and is knowledgeable in energy conservation studies as well as in the design of specialty systems. Mr. Dunlap received LEED Accreditation in 2003, ASHRAE's High-Performance Building Design Professional Certification in 2008 and Certified Healthcare Facility Design Professional in 2009. Additional ASHRAE certifications include Certified Energy Modeling Professional and Commissioning Process Management Professional. He has served as chairman of ASHRAE'S national technical committees on noise and vibration and thermal storage. He has served as a national judge for ASHRAE'S annual Energy Awards and is an ASHRAE Certified Standard 90.1 Trainer. He served on both the ASHRAE Committee on Development of Sustainable Design Tools and the ASHRAE Commissioning Certification Committee and currently serves on the ASHRAE Energy Auditing Professional Certification Committee. Mr. Dunlap has been employed at D&P for 12 years.

Education:

Duke University

B.S. Mechanical Engineering, 1973



Virginia Commonwealth University MBA, 1982



Clemson University

Graduate Work in Architecture, 1974



Professional Registrations:

PE (Mechanical) in 25 states and the District of Columbia. Initial state of registration is Virginia; Virginia Registration No. 11800.



Mr. Dunlap received LEED Accreditation in 2003 & has developed an in-house LEED training course for Dunlap & Partners personnel. He received certification as an ASHRAE High-Performance Building Design Professional in 2008 and a Certified Healthcare Facility Design Professional in 2009. He is also a certified Commissioning Process Management Professional and an Energy Auditing Professional.

Professional Affiliations:



ASHRAE

- National Technical Committee on Thermal Storage 2007-14 – Chair 2007-2009
- Member and Subcommittee Chair of TRG-4 – Development of Sustainable Design Tools 2007-09
- Member Commissioning Certification Program Committee 2008-09
- Member Energy Auditing Professional Certification Program Committee 2010-2011
- Chairman, National Technical Committee on Noise and Vibration 1989 -1992. Voting Member 2013-2017
- National Judge, Energy and Technology Awards 1994-96
- SSPC 80.1 HVAC Sub-Committee Member 2009-14
- Provisional Assessor for bEQ Labeling Program
- Technical Activities Committee Section Chair 2009-2012
- SPLS Member, Standards 55, 62.1 and 170.

USGBC

- Member
- Green Build Paper Reviewer 2005-2006, 2008, 2010-2011, 2014
- Committee developing LEED A.P. skills to be tested on LEED exams 2008

JRGBC

- Board Member 2009-Present
- Chairman Board of Directors, 2013

VSNB

- Board of Directors, 2011 – Present

NIBS/NREL

JOB Task/Analysis Committee for Building Energy Auditor 2014

PROJECT EXPERIENCE:

James City County Fire Station #4
James City County, Virginia

Henrico Fire Station #5
Henrico County, Virginia

Henrico Fire Station #8
Henrico County, Virginia

City of Richmond Fire Station #1, 6, 8, 9, 10, 12, 17, 22,
Richmond, Virginia

Dulles International Airport ARFF
Sterling, Virginia

Reagan National Airport ARFF
Arlington, Virginia

Norfolk International Airport ARFF
Norfolk, Virginia

Public Safety Complex
Chesterfield, Virginia

Dominion Resource Fire Training Center
Richmond, Virginia



John M. Cain, PE
Principal
Director of Plumbing and Fire Protection
Engineering



EXPERIENCE and QUALIFICATIONS:

Mr. Cain's experience includes more than 25 years of design and project management for diverse projects including new construction, additions, and renovations of office buildings, primary and secondary schools, university systems, healthcare facilities, laboratories, and performing arts centers. He has deep experience in all aspects of plumbing and fire protection design, including domestic water systems, water heaters, and booster pumps; sanitary systems and sewage ejectors; storm water systems; sump pumps; natural gas systems; acid resistant piping; laboratory clean water, compressed air, vacuum, and gas systems; medical gas systems; fire pumps; and automatic sprinkler and standpipe systems, and clean agent extinguishing systems. Mr. Cain has been employed at D&P for 11 years.

Education:

Virginia Polytechnic Institute & State University
B.S. Education – 1979



PROJECT EXPERIENCE:

James City County Fire Station #4
James City County, Virginia

Henrico Fire Station #5
Henrico County, Virginia

Henrico Fire Station #8
Henrico County, Virginia

City of Richmond Fire Station #1, 6, 8, 9, 10, 12, 17, 22,
Richmond, Virginia

Dulles International Airport ARFF
Sterling, Virginia

Reagan National Airport ARFF
Arlington, Virginia

Norfolk International Airport ARFF
Norfolk, Virginia

Public Safety Complex
Chesterfield, Virginia

Dominion Resource Fire Training Center
Richmond, Virginia

Professional Registration:

PE (Fire Protection) in Virginia, Maryland, North Carolina and Pennsylvania. Initial state of registration is Pennsylvania; Virginia Registration No. 43120.

Certified in Plumbing Design



Mr. Cain received LEED Accreditation in 2008



Professional Affiliations:

ASPE

- Member



NFPA

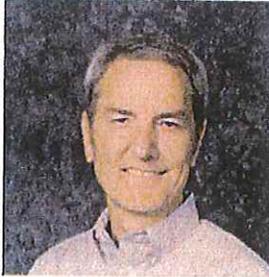
- Member





Warren A. Reed, LEED AP

Principal
Project Manager



EXPERIENCE and QUALIFICATIONS:

Mr. Reed has an extensive background in mechanical engineering design and project management. His experience includes new construction, tenant up-fit and existing building retrofits for a variety of commercial and industrial applications. He has served as the project manager for some of the firm's largest projects, including the Richmond Airport Terminal Expansion and the Richmond Convention Center Expansion. He particularly has considerable experience in design and project management for the construction and renovation of commercial office buildings, including an abundance of design-build projects. Mr. Reed has been employed at D&P for 12 years.

Education:

Cypress College, California
Associate Degree – Science – 1986
Certification in HVAC and Refrigeration Design – 1986



Registrations/Certifications:

Mr. Reed received LEED Accreditation in 2009



PROJECT EXPERIENCE:

James City County Fire Station #4
James City County, Virginia

Henrico Fire Station #5
Henrico County, Virginia

Henrico Fire Station #8
Henrico County, Virginia

City of Richmond Fire Station #1, 6, 8, 9, 10, 12, 17, 22,
Richmond, Virginia

Dulles International Airport ARFF
Sterling, Virginia

Reagan National Airport ARFF
Arlington, Virginia

Norfolk International Airport ARFF
Norfolk, Virginia

Public Safety Complex
Chesterfield, Virginia

Dominion Resource Fire Training Center
Richmond, Virginia



Paul M. Cimaglia, PE
Principal
Director of Mechanical Engineering

EXPERIENCE and QUALIFICATIONS:

Mr. Cimaglia has managed all aspects of HVAC projects in the commercial, institutional, and healthcare market sectors. Project types include new installations, tenant improvements, system retrofits, replacements, and upgrades.

Mr. Cimaglia received LEED Accreditation in 2008 and has since been involved in a number of projects pursuing LEED certification.

He has extensive experience with building energy analysis and simulation modeling. He is knowledgeable in the design of specialty systems with a focus on energy conservation and efficiency. System types include energy recovery, demand controlled ventilation, and geothermal.

Paul has been employed at D&P for 11 years.

Education:

Penn State University 
B.S. Mechanical Engineering, 1998

Professional Registration:

PE (Mechanical) Registration is Virginia; Virginia Registration No. 042426

GBCI LEED Accreditation in 2008 

Professional Affiliations:

ASHRAE

- Member
- Building Energy Modeling Professional
- Building Energy Assessment Professional



Energy Star

JRGBC

- Member



PROJECT EXPERIENCE:

James City County Fire Station #4
James City County, Virginia

Henrico Fire Station #5
Henrico County, Virginia

Henrico Fire Station #8
Henrico County, Virginia

City of Richmond Fire Station #1, 6, 8, 9, 10, 12, 17, 22,
Richmond, Virginia

Dulles International Airport ARFF
Sterling, Virginia

Reagan National Airport ARFF
Arlington, Virginia

Norfolk International Airport ARFF
Norfolk, Virginia

Public Safety Complex
Chesterfield, Virginia

Dominion Resource Fire Training Center
Richmond, Virginia



A. Linwood Bradley, Jr.

Senior Electrical Designer



Education:

J. Sargeant Reynolds
Old Dominion University

Professional Registrations:

Masters (Electrical) Registration in Virginia
Virginia Registration No. 2710 026459

EXPERIENCE and QUALIFICATIONS:

For over 30 years, Mr. Bradley has managed all aspects of electrical projects with for criminal justice systems facilities, public safety buildings, commercial, institutional and healthcare facilities.

Within the 10 years he has been with Dunlap and Partners, Linwood has provided electrical design for such project types as new installations, renovations, system upgrades. He is knowledgeable in the design of specialty systems including, Door Access Control, Fire Alarm, CCTV, Lighting and Solar Power Generation.

Linwood has been employed at D&P for 10 years.

RELEVANT PROJECTS:

James City County Fire Station #4
James City County, Virginia

Henrico Fire Station #5
Henrico County, Virginia

Henrico Fire Station #8
Henrico County, Virginia

City of Richmond Fire Station #1, 6, 8, 9, 10, 12, 17, 22,
Richmond, Virginia

Dulles International Airport ARFF
Sterling, Virginia

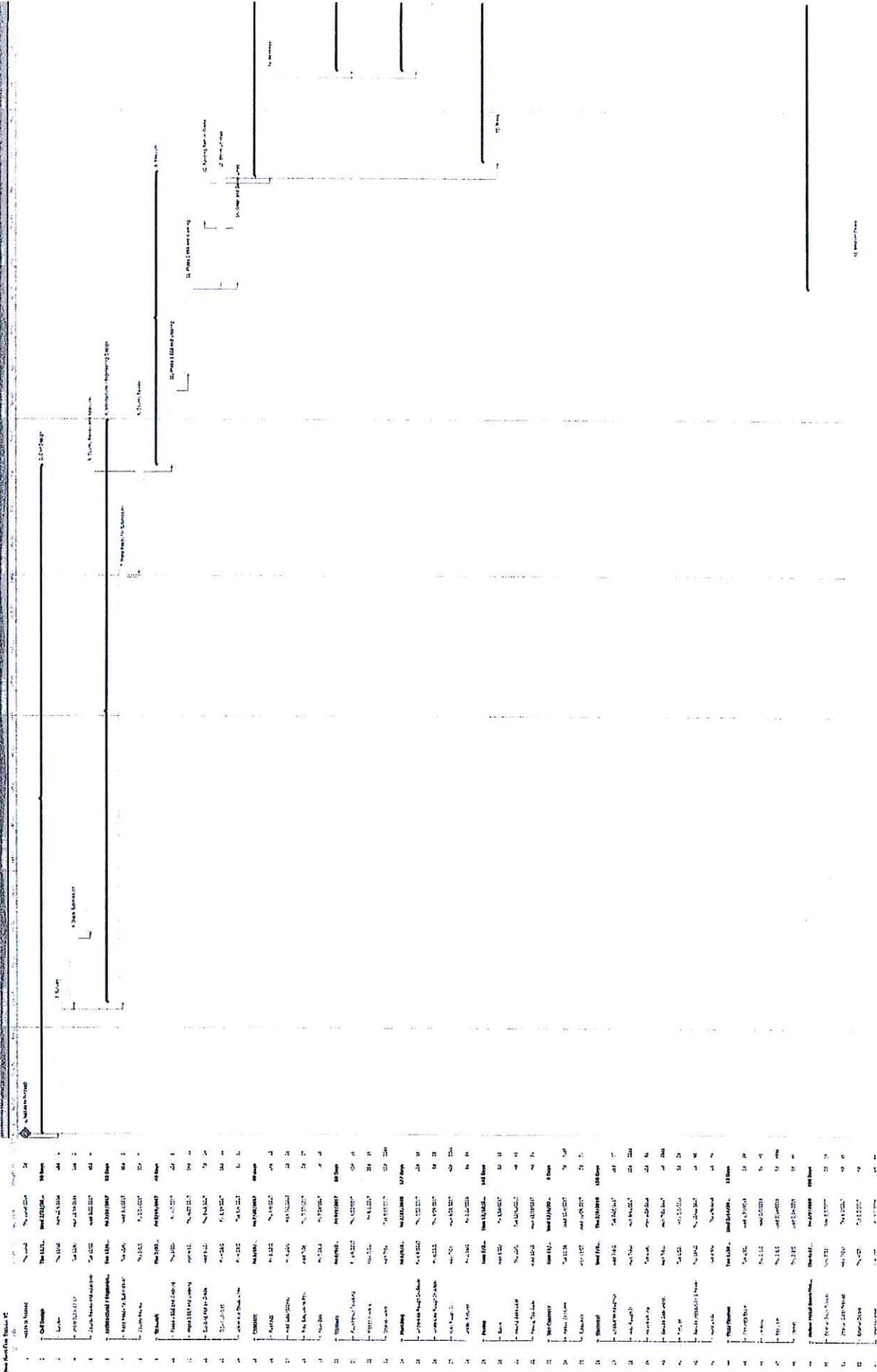
Reagan National Airport ARFF
Arlington, Virginia

Norfolk International Airport ARFF
Norfolk, Virginia

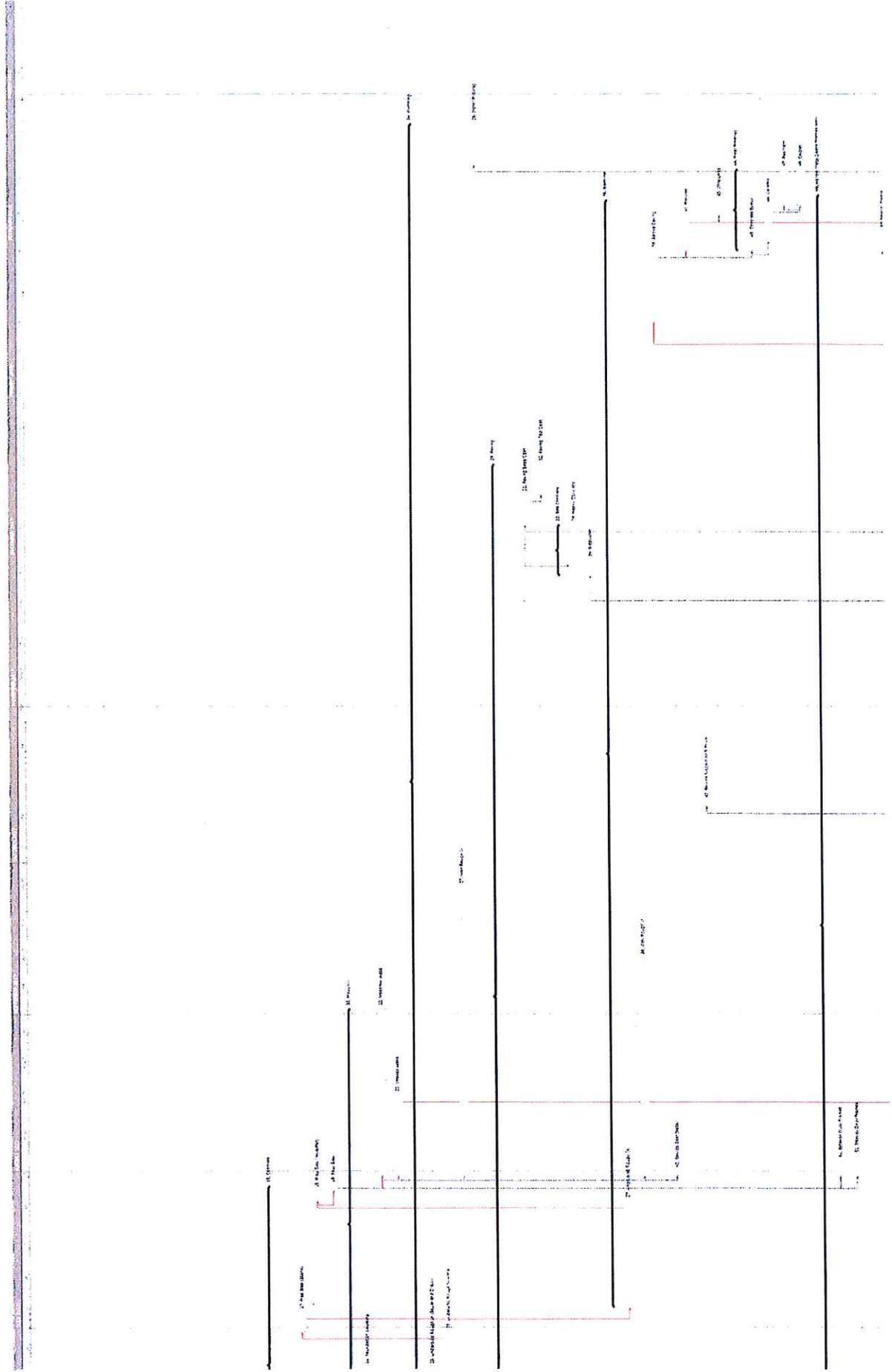
Public Safety Complex
Chesterfield, Virginia

Dominion Resource Fire Training Center
Richmond, Virginia

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No.	Room Name	Area (sq. ft.)	Notes
1	Office	100	
2	Office	100	
3	Office	100	
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50	Office	100	



1. Top concrete slab

2. Reinforcement

3. Insulation

4. Waterproofing

5. Drainage channel

6. Structural steel beam

7. External cladding

8. Internal partition wall

9. Floor slab

10. Ceiling structure

11. Acoustic insulation

12. Plasterboard

13. Ceiling lights

14. Ventilation duct

15. Mechanical services

16. External wall

17. Window frame

18. Glazing unit

19. Sill profile

20. Drainage system

21. Foundation

22. Ground level

23. External ground level

24. Internal ground level

25. Structural column

26. Core wall

27. Core slab

28. Core column

29. Core wall

30. Core slab

31. Core column

32. Core wall

33. Core slab

34. Core column

35. Core wall

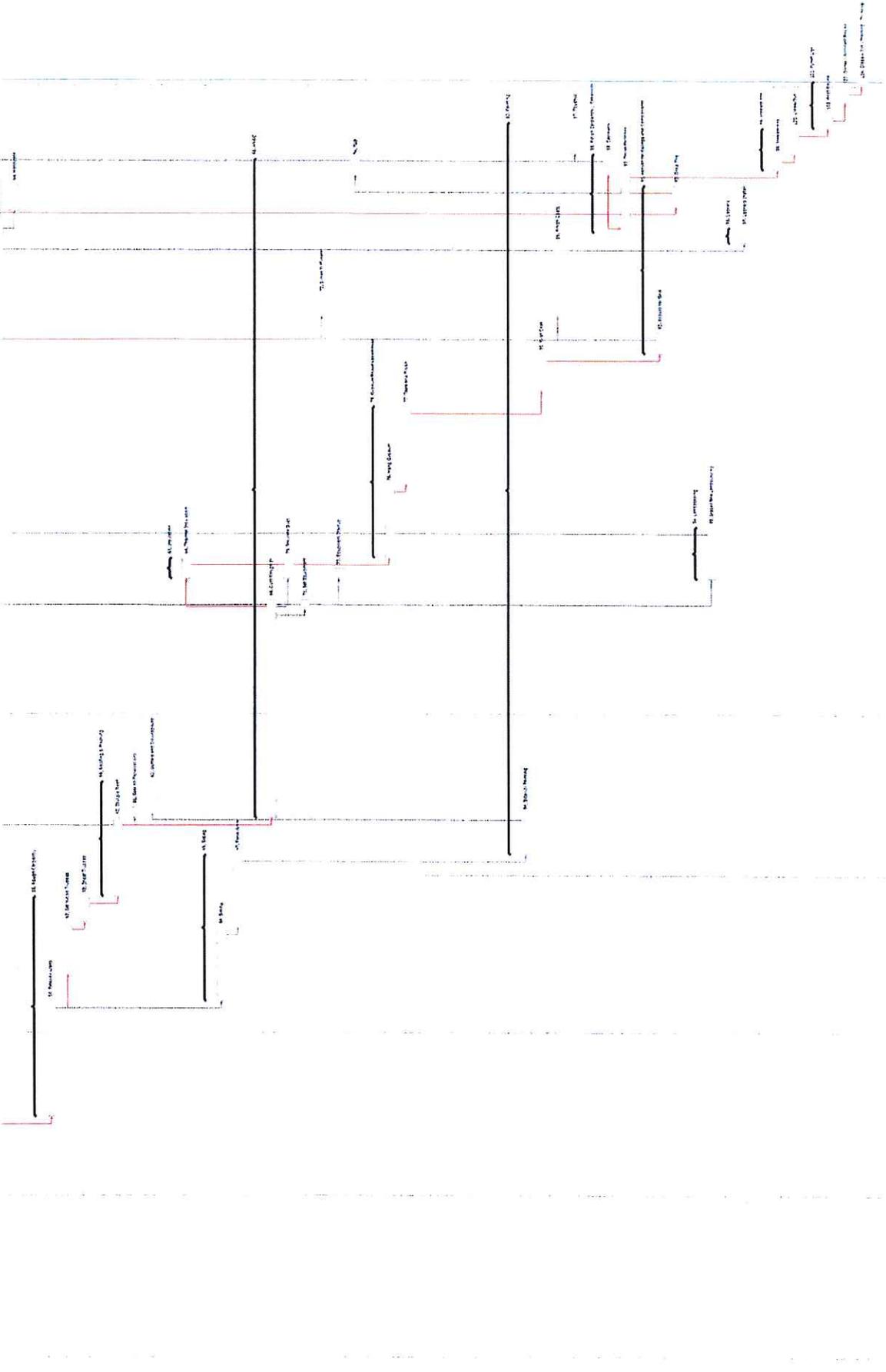
36. Core slab

37. Core column

38. Core wall

39. Core slab

40. Core column





CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)
6/3/2016

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 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 rights to the certificate holder in lieu of such endorsement(s).

PRODUCER Rutherford, A Marsh & McLennan Agency LLC Co. 1001 Haxall Point, Suite 800 Richmond VA 23219		CONTACT NAME: PHONE (A/C, No, Ext): 804-780-0611 FAX (A/C, No): E-MAIL ADDRESS: certificates@rutherford.com	
		INSURER(S) AFFORDING COVERAGE	
		INSURER A: Nationwide Mutual Insurance Company	
		INSURER B: Harleysville Worcester Insurance Co	
		INSURER C:	
		INSURER D:	
		INSURER E:	
		INSURER F:	

COVERAGES CERTIFICATE NUMBER: 979354368 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 INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
A	<input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR GENL AGGREGATE LIMIT APPLIES PER: <input type="checkbox"/> POLICY <input type="checkbox"/> PRO-JECT <input checked="" type="checkbox"/> LOC OTHER:			MPA78727V	6/1/2016	6/1/2017	EACH OCCURRENCE \$1,000,000 DAMAGE TO RENTED PREMISES (Ea occurrence) \$500,000 MED EXP (Any one person) \$5,000 PERSONAL & ADV INJURY \$1,000,000 GENERAL AGGREGATE \$2,000,000 PRODUCTS - COMP/OP AGG \$2,000,000 Deductible \$1,000
B	<input checked="" type="checkbox"/> AUTOMOBILE LIABILITY <input checked="" type="checkbox"/> ANY AUTO <input type="checkbox"/> ALL OWNED AUTOS <input type="checkbox"/> SCHEDULED AUTOS <input checked="" type="checkbox"/> HIRED AUTOS <input checked="" type="checkbox"/> NON-OWNED AUTOS <input checked="" type="checkbox"/> PD \$50,000			BA78724V	6/1/2016	6/1/2017	COMBINED SINGLE LIMIT (Ea accident) \$1,000,000 BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE (Per accident) \$ Deductible Comp/Coll \$\$500/\$500
B	<input checked="" type="checkbox"/> UMBRELLA LIAB <input checked="" type="checkbox"/> OCCUR <input type="checkbox"/> EXCESS LIAB <input type="checkbox"/> CLAIMS-MADE <input type="checkbox"/> DED <input checked="" type="checkbox"/> RETENTION \$0			CMB78725V	6/1/2016	6/1/2017	EACH OCCURRENCE \$5,000,000 AGGREGATE \$5,000,000 PER STATUTE OTH-ER \$ E.L. EACH ACCIDENT \$ E.L. DISEASE - EA EMPLOYEE \$ E.L. DISEASE - POLICY LIMIT \$
	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory In NH) If yes, describe under DESCRIPTION OF OPERATIONS below						
B	Leased/Rented Equip Borrowed Equipment Builders Risk			CIM98931V	6/1/2016	6/1/2017	\$275,000 \$1,000 deductible \$100,000 \$1,000 deductible \$6,000,000 \$1,000 deductible

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

CERTIFICATE HOLDER

CANCELLATION

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

Deborah B. Quiff-Bink

UNITED CONTRACTORS of VIRGINIA GROUP SELF INSURANCE ASSOCIATION

8001 Franklin Farms Drive, Suite 217
Richmond, Virginia 23229

Member No. 603/060

This is to certify that

Evans Construction, Inc.

Name

P. O. Box 159, 1700 E. Williamsburg Road

Street

Sandston

Virginia

23150

City

State

Zip

Is a member in good standing of the United Contractors of Virginia Group Self Insurance Association.

Part I

Workers' Compensation Coverage pursuant to Section 65.1-104.2 of the Workers' Compensation Act of Virginia is provided the above named member by the Association through authority granted by the State Corporation Commission of Virginia.

Part II

Employers' Liability Coverage with limits as follows is provided by the Association:

Bodily Injury/Accident	\$1,000,000	each accident
Bodily Injury/Disease	\$1,000,000	coverage limit
Bodily Injury/Disease	\$1,000,000	each employee

(See the reverse side for conditions of Employers' Liability Coverage)

This certificate is effective for the period

January 1, 2016 to January 1, 2017

unless sooner cancelled under the provision of Section 65.1-105 of the Workers' Compensation Act of Virginia.

Self Insurance Services, LLC
Administrator

Peggy DeBard

By: _____

Date Issued: November 12, 2015

ATTACHMENT B

AFFIDAVIT OF NON-COLLUSION

ATTACHMENT B

TO THE BOARD OF SUPERVISORS:

The undersigned hereby declares that he (it) is the only person (firm) interested in this bid; that it is made without any connection with any person making another bid for this same contract; that the bid is in all respects fair and without collusion or fraud; and that no official or any person in the employ of the Board of Supervisors is directly or indirectly interested in the bid or any portion of the profit thereof.

The undersigned also declares that he has carefully examined the Request for Proposal specifications, all annexed instructions, addenda, and attachments and will provide all the required services and will fulfill all the terms of the bid, if selected.

Signature: Chas. Evans, President of Evans Construction Inc.

Date: September 21, 2016

ADDRESS OF PRINCIPAL PLACE OF BUSINESS:

1700 E. Old Williamsburg Road

P.O. Box 159

Sandston, VA 23150

Telephone: 804-737-9044

Facsimile: 804-328-2140