BRANCH BUILDS | VMDO

MECKLENBURG COUNTY PUBLIC SCHOOLS

DESIGN-BUILD OF ADDITIONS AND RENOVATIONS TO CLARKSVILLE ELEMENTARY SCHOOL

CONCEPTUAL PHASE

PPEA

DESIGN & CONSTRUCTION PROPOSAL

JULY 28, 2022

BRANCH BUILDS

3635 Peters Creek Road | Roanoke, VA 24019
540-989-5215 | branchbuilds.com

VOLUME I

July 27, 2022

Mr. Paul Nichols
Division Superintendent
Mecklenburg County Public Schools
175 Mayfield Drive
Boydton, VA 23917

RE: PPEA Additions & Renovations to Clarksville Elementary School | Conceptual Stage

Dear Mr. Nichols:

Branch Builds, Inc., in partnership with VMDO, is pleased to submit for your review our qualifications to provide professional Design-Build services under the Public Private Education Facilities and Infrastructure Act (PPEA) for the Additions & Renovations to Clarksville Elementary School project. Our full-service Design-Build team offers a wealth of comparable project experience and we have assembled a team of highly qualified professionals for the project.

I preparation, our team has spoken to stakeholders and familiarized ourselves with Mecklenburg County Public Schools' needs and objectives; specifically, how can our team best meet the envisioned educational standards while respecting all financial objectives. We are optimistic that upon review, you will find we have ably addressed both of these goals.

Highlights for consideration:

- Both Branch and VMDO are premier leaders in K-12 education design/construction in Virginia and the Mid-Atlantic region, in general. Branch has successfully delivered over $775M of K-12 Education construction in the last 10 years and VMDO has designed over 3,000,000 square feet of K-12 facilities over the same time frame.
- The Branch | VMDO team has partnered together on numerous education projects over the years, including similar K-12 school projects such as the recent $24.5M Greene County Combined High School/Middle School project and the $48.5M Liberty University Library project. Our team has been recently selected to design and construct a new Buchanan County High School as well as a new Combined HS/MS in Lancaster County via PPEA delivery.
- The majority of our projects are managed via collaborative Design-Build or CM@Risk delivery where Branch's professional preconstruction services are utilized to develop strategically planned, budget adhering projects.
- The Branch | VMDO team offers a history of successful collaboration when working with strict budget limitations. Our design will be conservative and cost efficient.
- Our team recognizes the significance an improved Clarksville Elementary School holds for the County. We fully understand our efforts are on display for the entire community to observe and thus, we all must succeed. We embrace the challenge to excel in this scenario.
- Branch is an employee-owned firm and every member of our team, from the office to the field, has a vested interest in everything we do, every day.

We look forward to the prospect of being a member of the Additions & Renovations to Clarksville Elementary School project team and greatly appreciate your time and consideration of the Branch | VMDO team's professional Design-Build services.

Sincerely,

Branch Builds, Inc.

Catherine Underwood, LEED AP
Design-Build Project Manager

VMDO

Ken Thacker, AIA, LEED AP
Design Principal In Charge

BRANCH BUILDS
3635 Peters Creek Road | Roanoke, VA 24019
540-989-5215 | branchbuilds.com

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■ *Includes information provided in **Volume II - Redacted Proprietary Information***

No proprietary information has been included in this Volume I book.
All proprietary content is provided in Volume II.

BRANCH BUILDS | VMDO

EXECUTIVE SUMMARY

An Accomplished Team of PPEA K-12 Subject Matter Experts, led by an Experienced Virginia PPEA Design-Build Professional...

...Driven to Ensure Mecklenburg County Public Schools Delivers on Our Shared Commitment to Mecklenburg County Students.

Catherine Underwood
A4LE Virginia Chapter Leader
Past President (2017-2018)

"In working with many designers and contractors, I can attest that Cathy Underwood is as atypical of a contractor as they come. In addition to her vast construction and engineering knowledge, she innately possesses the 'lens' of an educator and fully understands the needs of a school division in successfully creating learning environments that promote academic success. In working with Cathy on school projects, I have always found Cathy to possess 'forward thinking' and 'solution-oriented' skills that have always allowed the toughest challenges to be overcome."

- Al Ciarochi, III | Prince William County Public Schools
A4LE VA Chapter Past President (2015-2016)

"It has been my pleasure to work with Cathy Underwood in so many of her K-12 leadership roles – A4LE, Design-Bid-Build, PPEA, CM@Risk and more. She is the consummate professional and an excellent construction industry representative, having deep knowledge of both design and construction and being one who cares about K-12 learning environments and understands why they are so important to the success of Virginia's students."

- Duane Harver | RRMM Architects
A4LE VA Chapter Past President (2013-2014)

EXPERTISE IN VIRGINIA K-12 PPEA DESIGN-BUILD

Cathy Underwood
Design-Build Project Manager
11 Years of K-12 PPEA Project Experience

Jaime English
Preconstruction Manager
11 Years of K-12 PPEA Project Experience

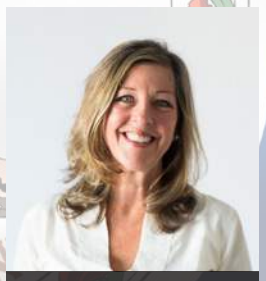
Tony Brown
VP Estimating
11 Years of K-12 PPEA Project Experience

Bryan Underwood
Senior Project Manager
11 Years of K-12 PPEA Project Experience

Jimmy Kenyon
Senior Superintendent
11 Years of K-12 PPEA Project Experience

Robert Winstead
Educational Planner
19 Years of K-12 PPEA Project Experience

Kenneth Thacker
Principal-In-Charge
23 Years of K-12 PPEA Project Experience



Kelly Callahan
Project Architect
30+ Years of K-12 Project Experience

K-12 Education PPEA Project Experts

7 Total Virginia K-12 PPEA School Projects, Totaling Over 981,000sf

Auburn High School

Blacksburg Hhigh School

BENEFIT

An accomplished team of K-12 PPEA Design-Build professionals, experienced in navigating the PPEA process to maximize value and minimize risk. Will serve as MCPS' advocate and guide throughout the PPEA process.

OVER $775M OF K-12 EDUCATION EXPERIENCE LAST 10 YEARS

PPEA
Auburn High School

PPEA
Blacksburg High School

Ridgeview High School / Middle School

Frederick County Middle School

PPEA
Auburn Middle School

Franklinton High School

Washington & Lee High School

Pulaski Middle School

Rocky Mount High School

Greene County HS & MS Add/Reno

BENEFIT A team that has extensive successful experience managing the construction of high-profile, transformational K-12 education projects. K-12 design and construction is our specialty.

PRECONSTRUCTION SOLUTIONS

Tony Brown
VP of Estimating

Tony is a 34-year industry veteran on K-12 projects who knows how to get a project within budget through creative value management and engaging the right trade partners.

Jaime English
Preconstruction Manager

Jaime is a seasoned preconstruction manager and has an impeccable record in obtaining the best pricing. You WILL get the best price!

Jimmy Kenyon
Senior Superintendent

Jimmy is instrumental in providing a field operations perspective and professional constructability reviews.

PREQUALIFYING THE RIGHT CONTRACTORS

With emphasis on local participation, only the most qualified trade partners work on your project. This minimizes default risk and construction delays.

We know who the best K-12 trade partners are!

CREATING TRADE PARTNER COMPETITION

Guarantees that you get the best pricing by obtaining a minimum of (3) three bids per scope of work.

VALUE MANAGEMENT WORKSHOP

Uses the collective experience of the team to obtain the maximum value for your project.

AGGRESSIVE CONSTRUCTABILITY REVIEWS

Ensures that there are NO GAPS in documents and eliminates change orders.

HEAVY ATTENTION TO SCHEDULE COORDINATION

Delays are costly. We plan ahead and for every contingency.

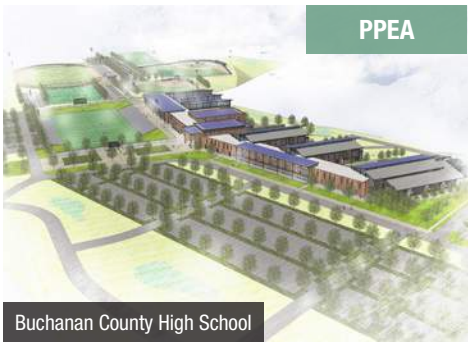
The entire Preconstruction process will be open book, meaning we show you the details of all bids and by collaborating as a team, we will choose the trade partners together.

BENEFIT Maximize the value of your dollars and local subcontractor participation.

ESTABLISHED SUCCESSFUL WORKING RELATIONSHIPS

VMDO

Lancaster Middle School


PPEA
Buchanan County High School

Liberty University Science Hall

Greene County Combined High School & Middle School

Roanoke College Cregger Center

Liberty University Library

SKANSKA

Ridgeview High School / Middle School

PPEA
Auburn High School

Pulaski Middle School

PPEA
Blacksburg High School

PPEA
Auburn Middle School

Forest Middle School

BENEFIT

An experienced, seamless design-build team with an appreciation for one another's processes, procedures, and expectations. With no internal learning curve, we are ready to continue our work on your project immediately.

SAFETY-FIRST PRACTICE

.96
EMR Rate

Branch has a comprehensive safety program that is managed by our Corporate Safety Director and his staff, and is implemented in the field by our highly trained Field Superintendents. There is nothing more important when analyzing a landmark, community-oriented project than to be aware of the potential for safety concerns. The plan is refined throughout the preconstruction phase and is clearly conveyed to all as the project is released for trade partner bidding. The success of our program is illuminated by our **Experience Modification Rating (EMR) of .96**, lower than the industry average of 1.0.

CERTIFIED SWaM Small, Women and Minority-Owned
Supplier Diversity Strengthens the Commonwealth
by the Virginia Department of Minority Business Enterprise

Branch is committed to maximizing participation of SWaM trade contractors on our projects and we regularly exceed SWaM participation goals. We utilize a number of internal processes, improved over many years, to help us successfully meet client goals for the many public sector projects we manage. As one of the Commonwealth's leading municipal and higher education construction management firms, we have successfully managed SWaM programs for clients such as Fairfax County, Prince William County, City of Richmond, Henrico County, Montgomery County, Virginia Tech, Virginia Military Institute, JMU and Radford University to name a few.

LEAN CONSTRUCTION: BRANCH'S TEAM CENTERED PLANNING (TCP)

On every project, Branch Builds, Inc. incorporates Lean Construction principles and methodologies as a fundamental component of establishing mutually beneficial relationships built on trust and respect. Branch's Lean Construction approach, or Team Centered Planning (TCP) has been thoughtfully developed to maximize the value we add to our clients' projects by ensuring enhanced project team communications, detailed scheduling and work efficiencies while simultaneously eliminating wasteful practices that are all too often found within the industry. Our TCP process is founded on the principle that all project team members (Branch, subcontractors, designers, engineers, owners, owner's reps, etc.) participate in the project planning/scheduling process and "buy-in" to the developed plan. All team members have an equal voice in the process and all feedback is utilized in coordinating the construction activities required to meet our clients' project objectives. The plan is refined in real time throughout the project and through daily communications with the team members, accountability is heightened significantly while costs are reduced, and schedules are shortened.

OWNER DIRECT PURCHASE PROGRAM

Branch professionals will work closely with MCPS during preconstruction to identify items conducive for consideration of Owner-Direct purchasing and the subsequent tax benefit for overall project costs. As MCPS' project advocate, we will help provide information, including cost breakdowns, on such items so MCPS can make informed decisions to assist in reducing project costs. We will collaborate with owner vendors to ensure scopes of work are complete and that installation is highly coordinated.

FREDERICK COUNTY MIDDLE SCHOOL

TAB 1 | QUALIFICATIONS & EXPERIENCE

a. Legal & Organizational Structure
b. Design-Build Team Members
c. Design-Build Team Experience
d. Safety Performance
e. Past Performance
f. Design-Build Team Contacts
g. Financials
h. Conflict of Interest Statement

1 | QUALIFICATIONS & EXPERIENCE

a. Identify the legal structure of the firm or consortium of firms making the proposal. Identify the organizational structure for the project, the management approach and how each partner and major subcontractor in the structure fits into the overall team.

Branch Builds, Incorporated (Branch) is the entity submitting this proposal and as such will maintain executive oversight and responsibility for Mecklenburg County Public Schools; Branch will oversee all design-build preconstruction and construction services for the Clarksville Elementary School project. As such, Branch will serve as Mecklenburg County Public Schools' primary point of contact throughout the project.

We have assembled a team of the top local, regional, and national K-12 design and construction specialists to lend both depth and breadth to your projects. VMDO Architects will be contracted by Branch for design services; sub-consultants for design will be contracted through VMDO. Timmons is providing civil engineering services, CMTA is providing MEP engineering, security and AV/IT design services and Springpoint Structural is providing structural engineering. We are also proposing MEP Design-Assist services from both Hopkins | Lacy and Comfort Systems USA, who will work with Branch | VMDO to help design, coordinate and install MEP systems.

Our collective understanding of both the local conditions and the PPEA design-build process is clear, and the broad perspective we bring to bear is second to none. Members of our Clarksville Elementary School design-build team recently partnered together via PPEA design-build procurement to deliver the $107.5 million Montgomery County Public Schools Multi-School PPEA project, which included two replacement high schools (Auburn High School and Blacksburg High School). Our team has followed the evolution of this project and understands the intricacies of PPEA delivery. We offer valuable lessons learned knowledge with regard to successfully designing and managing a PPEA school improvement project.

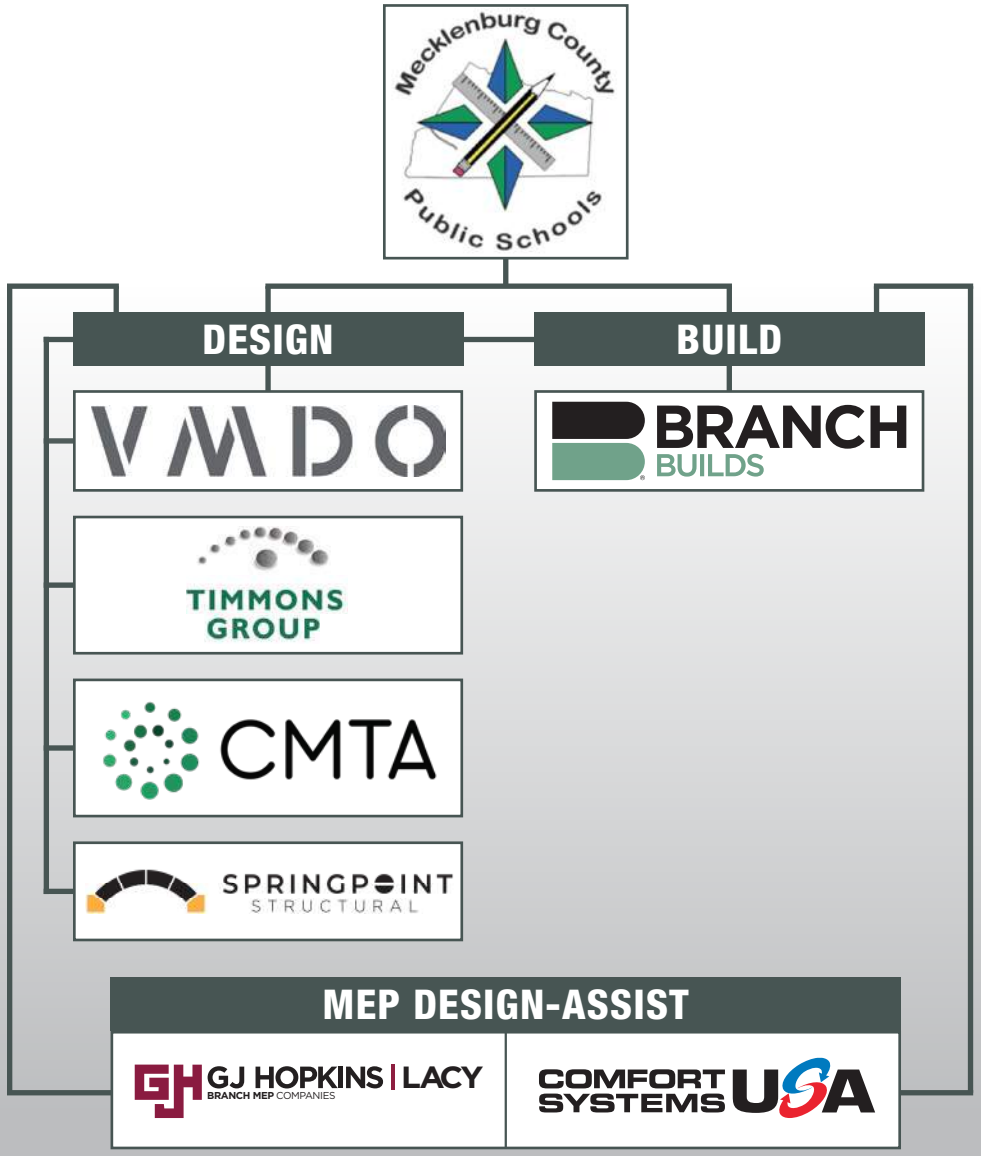
Our team's management approach is simple; we are one team working collaboratively toward one common goal and that goal is to provide the best possible educational platform for the greatest return on investment for Mecklenburg County Public Schools. We will check egos at the door and will vet options with tenacity, but in the end, collectively agree on what best meets the needs of faculty, administrators and students. We will look for cost saving alternatives that do not compromise scope or desired finishes or fail to address sustainability, durability and maintenance. Our team will be led by Cathy Underwood, a Design-Build Project Manager experienced in K-12 PPEA delivery and who will ensure all team members are focused on the goals at hand and that we are in fact, delivering on promises. Everything we do will be transparent and available for Mecklenburg County Public Schools and Skanska's review at any time upon request. Our approach and methodology anticipate we will need to meet the scrutiny of an audit at project completion. Simply summarized, the Branch | VMDO management approach and goal is to become an extension of the School Board and guide ourselves and the decisions we make as if we were Mecklenburg County Public Schools.

BRANCH BUILDS

VMDO

1 | QUALIFICATIONS & EXPERIENCE

The key partners of the Branch | VMDO Design-Build project team will be structured as follows:



BRANCH BUILDS

VMDO

1 | QUALIFICATIONS & EXPERIENCE

b. All members of the proposer's team, including major subcontractors known to the proposer must be identified at the time a proposal is submitted for the Conceptual stage. Identified team members, including major subcontractors (Five Million Dollars ($5,000,000) or more) may not be substituted or replaced once a project is approved and a comprehensive agreement has been executed, without the prior written approval of the School Board.

Branch | VMDO Design-Build Team Identified Members

Branch Builds – Design-Builder
VMDO – Architectural Design
Timmons Group – Civil Engineering
CMTA - MEP Engineering, Security & AV/IT Design
Springpoint Structural – Structural Engineering
Hopkins | Lacy – MEP Design-Assist Services
Comfort Systems USA – MEP Design-Assist Services

BRANCH BUILDS

VMDO

1 | QUALIFICATIONS & EXPERIENCE

c. Describe the experience of the firm or consortium of firms making the proposal and the key principals involved in the proposed project, including experience with projects of comparable size and complexity. Describe the length of time in business, business experience, public sector experience and other engagements of the firm or consortium of firms. Include the identity of any firms that will provide design, construction, and completion guarantees and warranties, and a description of such guarantees and warranties.

BRANCH BUILDS, INC. | Design-Builder

Branch Builds, Inc. is a Roanoke, Virginia headquartered firm with regional offices in Richmond and Herndon, Virginia. Branch has been building K-12 projects throughout Virginia, North Carolina and West Virginia for the past 59 years. K-12 construction is what we do – it is our specialty and our passion. Branch has vast experience with schools of all grade categories and has constructed these projects as a traditional hard bid contractor, Construction Manager at Risk and Design-Builder (including PPEA). We are intimately familiar with the Buchanan market and subcontractor community who will fulfill critical roles as the process progresses.

Branch was founded in 1963 by Bill Branch. In 1985 the firm was reorganized into The Branch Group of which Branch Builds, Inc. is one of four wholly owned subsidiary companies focusing exclusively on general contracting, construction management, public-private ventures and design-build construction. In 1982, the company converted to an employee owned company (ESOP) and is now 100% employee owned. Employee ownership ensures that every employee has a vested interest in the company's success and is a key reason why our firm has continued its strong growth. Ranked by revenue, the company is consistently in the Top 5 Largest Contracting Firms headquartered in Virginia.

Branch's core focus is education preconstruction and construction services; our company counts as some of our many public/private sector clients: Lancaster County, Dickenson County, Halifax County, Fredrick County, Montgomery County, Henrico County, Chesterfield County, Loudoun County, Fairfax County, and Stafford County. We have also managed high-profile education projects for Virginia's most prominent universities and colleges, such as Virginia Tech, James Madison University, VMI, Liberty University, Roanoke College, Washington & Lee University, University of Virginia and Radford University for example. Branch has a strong team of Project Managers and Superintendents whose combined experience would be the envy of most competitors. Financially, the company ranks amongst the most solid in the industry by any financial measure. This is a testament to the company's conservative financial management, as well as, assessment of risk.

We are a medium size firm as measured by national standards ($175M-$200M+ annually), and our culture and business model include having our key executives involved with our major projects. Please reference the organizational chart and individual resumes provided in this section for our team structure and backgrounds.

PPEA Expertise | Branch is a premier PPEA K-12 design-builder in Virginia. Branch has long been a proponent of the PPEA delivery approach as it is the most conducive process for meeting all owner project objectives in a collaborative and harmonious manner. The hallmark of Branch's PPEA design-build methodology is our client-focused professional preconstruction services which entails comprehensive project analysis to identify cost-saving options, constructability solutions, Building Information Modeling (BIM) and schedule enhancements while providing general owner guidance through the PPEA design-build

BRANCH BUILDS

VMDO

process. We employ a 100% transparent, open-book approach so BCPS will always know where every construction dollar is being spent and BCPS will be in the best position possible to make sound and confident decisions. Branch's PPEA experience includes our fast-tracked $107.5 million 3-School PPEA project for Montgomery County Public Schools, who were so pleased with Branch's PPEA methodology and performance, they selected us on our current $35 million Christiansburg 3-Elementary Schools PPEA design-build project and the $80 million Christiansburg High School Improvement Project.

Partnership Experience with Skanska | Branch has extensive experience working on K-12 projects, including PPEA endeavors, with Skanska and Curtis Elswick. We have an excellent working relationship with Curtis and share an appreciation for his processes, procedures and expectations. Branch and Skanska have shared in numerous K-12 project successes in Virginia, including:

- Montgomery County Public Schools 3-School PPEA | $107.5M
  - Blacksburg High School
  - Auburn High School
  - Auburn Middle School
- Ridgeview High School/Middle School | $59M
- Pulaski County Middle School | $37.1M

1 | QUALIFICATIONS & EXPERIENCE

Summary of Representative Branch Projects:

In Progress	
Lancaster Middle School Renovations & Additions	$10.6M
FCPS James Wood HS & Indian Hollow ES	$74M
MCPS Christiansburg Elementary Schools PPEA	$35M
CMS Multi-School CM@Risk	$4.1M
Completed	
Washington & Lee High School	$48.8M
George Mason Elementary School	$34.6M
North Star School	$32M
Sun Valley High School Additions & Renovations	$30.8M
Robert E. Aylor Middle School	$41.1M
Montgomery Central High School & Career Technical Education Building	$62.3M
King George Middle School Additions & Renovations	$18.7M
Pulaski County Middle School	$37.1M
Cabarrus County High School	$62.9M
Greene Co. Combined High School & Middle School	$24.5M
Stanley Middle School	$25M
Providence Middle School Additions & Renovations	$22.8M
South Lakes High School Addition	$8.3M
Mountain View High School	$7M
Mullen Elementary School Renovation	$5.2M
Colonial Forge High School	$6.9M
Fort Belvoir Elementary School I & II	$22.3M
Frederick County Middle School	$42.3M
Glenvar High School Renovations & Additions	$24.3M
Ridgeview Combined High School & Middle School	$59.2M
Freedom High School Addition	$4.5M
Auburn Middle School PPEA (MCPS)	$18.4M
Blacksburg High School PPEA (MCPS)	$54.4M
Auburn High School PPEA (MCPS)	$34.7M
Brookland Middle School	$22.8M
Greenbrier West High School	$16.8M
Frederick Douglass Elementary School	$21.9M
Rocky Mount High School	$35.5M
Franklinton High School	$25.4M

BRANCH BUILDS

VMDO

LANCASTER MIDDLE SCHOOL

KILMARNOCK, VIRGINIA

OWNER | LANCASTER COUNTY PUBLIC SCHOOLS
2330 Irvington Road
Weems, VA 22576

ARCHITECT | VMDO
200 E. Market Street
Charlottesville, VA 22902

CONTRACT TYPE | Design-Bid-Build

CONTRACT AMOUNT | $10.6 Million

SIZE | 73,700sf

BIM 3D TECHNOLOGY

Branch was the successful low bidder on the renovations and additions to Lancaster Middle School, which represents the first of two projects planned as part of Lancaster County Public Schools (LCPS) Capital Improvement Planning for the next five years. This renovation/addition project to the existing middle also involves a school conversion project – shifting the school from a grades 4-8 configuration to K-6. The work consists of the demolition of a 1960's classroom wing, making way for a 7,700sf addition that houses a new main entrance, administrative suite, and new classrooms. The renovation scope covers 66,000sf of the existing building and entails space reconfiguration, new finishes, ADA upgrades, LED lighting, replacement of the fire alarm and the addition of an automatic sprinkler system. Site work includes a courtyard renovation, new play spaces and reconfiguration of parking, site access and circulation for both the new and renovated facilities as well as an Annex Building, which is being renovated concurrently under separate contract. Branch worked collaboratively with LCPS and VMDO in providing value engineering solutions to bring the project into budget during the challenging, fluctuating market conditions we are currently experiencing in 2022.

VMDO

AUBURN MIDDLE SCHOOL

AUBURN HIGH SCHOOL

BLACKSBURG HIGH SCHOOL

MONTGOMERY COUNTY PUBLIC SCHOOLS PPEA

BLACKSBURG HIGH SCHOOL,
AUBURN HIGH SCHOOL, AUBURN MIDDLE SCHOOL

Montgomery County Public Schools

OWNER | MONTGOMERY COUNTY PUBLIC SCHOOLS
200 Junkin Street
Christiansburg, VA 24073

ARCHITECT | SHW *(BLACKSBURG HS)*
609 East Market Street, Suite 202
Charlottesville, VA 22902

ARCHITECT | RRMM *(AUBURN MS & HS)*
28 Church Avenue, SW
Roanoke, VA 24011

CONTRACT TYPE | Design-Build

CONTRACT AMOUNT | $107.5M

SF | 595,000sf

PPEA

This $107.5 million PPEA design-build project was a complex, multi-faceted undertaking that involved the design and construction of three separate schools for Montgomery County Public Schools and included two separate design teams. The entire scope of work was procured under a single design-build contract. Blacksburg High School (BHS) is a new 3-story, 300,000sf project that Branch coordinated with our design partners SHW Group, OWPR and Gay & Neel. Auburn High School (AHS) is a new 175,000sf high school project that Branch coordinated with design partners RRMM Architects, OWPR, Stroud Pence and Lawrence Perry & Associates. Due to extreme time constraints, both of these high school projects were constructed on fast-track schedules with partial Guaranteed Maximum Pricing (GMP) breakouts to facilitate early site grading, foundation and structural steel packages.

Both high school projects had similar building design components including brick in contrasting patterns, extensive high-performance glass, sloping metal roofs, energy modeling, dimmable lighting controlled by sensors, light shelves, sloped ceilings, a high performance “energy star” rated 4-pipe HVAC system and siting of the auditorium and gymnasium spaces partially below grade to minimize contrasting articulation. They both included all of the features typical of modern classroom and learning environments as well as new athletic facilities. Overall, both projects were constructed in less than 20 months.

The 120,000sf Auburn Middle School (AMS) project involved the comprehensive renovation of the old Auburn High School into the new middle school. The project captures and re-uses the primary façade and 1953 addition of the former high school while adding in-fills to create a new 120,000 square foot learning center; specific areas re-used include the auditorium, gymnasium and vocational buildings.

CHRISTIANSBURG ELEMENTARY SCHOOLS 3-SCHOOL PPEA

CHRISTIANSBURG, VIRGINIA

Montgomery County Public Schools

OWNER | MONTGOMERY COUNTY PUBLIC SCHOOLS
750 Imperial Street
Christiansburg, VA 24073

ARCHITECT | 5 DESIGN, LLC
597 Depot Street
Christiansburg, VA 24073

CONTRACT TYPE | Design-Build

CONTRACT AMOUNT | $35M

SF | 106,978sf

PPEA

Branch was selected as the design-builder through a competitive public-private partnership procurement process on this multi-faceted project involving the improvements of three separate elementary schools for long-time repeat client, Montgomery County Public Schools. Branch is working in partnership with 5 Design, LLC to design and manage the renovations and additions to existing Christiansburg Primary, Christiansburg Elementary & Belview Elementary Schools. Additions include new classrooms, a new gym, connector corridors, bathrooms, new canopy entrances, parking lots and student drop off areas. Renovations consist of classrooms, administration areas (new paint, flooring, casework and storefront), and minor renovation work in existing gyms. The project requires Branch to safely and unobtrusively work within, and around, the occupied schools utilizing thoughtfully planned, phased scheduling. Christiansburg Primary work consists of 22,800sf of additions and 40,500sf of renovations; Christiansburg Elementary School work consists of 21,250sf of additions and 4,200sf of renovations; Belview Elementary School work consists of 18,828sf of additions and 2,908sf of renovations.

GREENE COUNTY COMBINED HIGH SCHOOL & MIDDLE SCHOOL

STANARDSVILLE, VIRGINIA

Greene County Public Schools

OWNER | GREENE COUNTY PUBLIC SCHOOLS
40 Celt Road
Stanardsville, VA 22973

ARCHITECT | VMDO
200 E. Market Street
Charlottesville, VA 22902

CONTRACT TYPE | CM@Risk

CONTRACT AMOUNT | $24.5 Million

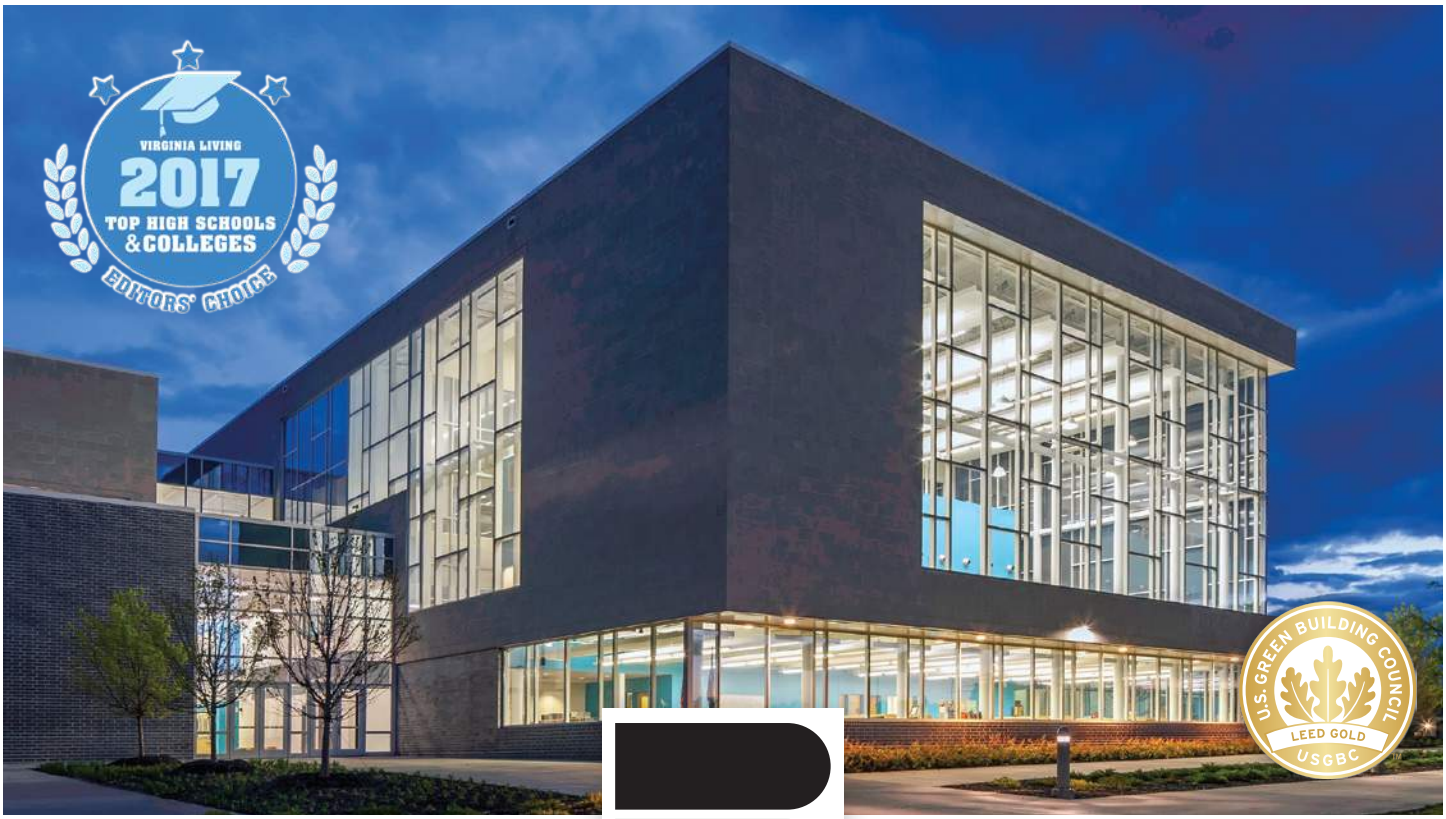
TOTAL SF | 62,000sf

VMDO

In partnership with VMDO Architects, Branch Builds, Inc. was selected to serve as the Construction Manager at Risk on this dynamic and challenging campus improvement project for Greene County Public Schools in Stanardsville, Virginia. Located on a single campus, Greene County Public Schools had a primary school, middle school, and high school with insufficient facilities and parking. The project consisted of an occupied – phased renovation and addition to the high school which required Branch to develop a phasing plan in 30 days that allowed for demolition of the middle portion of the high school – to rebuild the library, add a new entrance, add a new commercial kitchen and cafeteria, and add a media center. To accommodate the school, Branch constructed a temporary enclosed walkway between the two sections of the school around the construction area to allow students to access the cafeteria during construction. In addition to the enclosed temporary walkway, Branch provided temporary bathrooms attached to the temporary walkway. Upon completion of the phase 1 segment of construction, Greene County occupied the newly constructed space; Branch demolished the temporary facilities and existing kitchen/ cafeteria and constructed new student space.

While construction progressed at the High School, a separate and concurrent construction project at the adjacent Middle School consisted of demolishing the school library in the middle of the school facility and constructing a new entrance and library space as phase 1. Upon completion of phase 1 at the Middle School in April 2019, students and staff occupied this space and Branch took over the existing kitchen and cafeteria to begin a complete remodel of this space between June 2019 and August 2019. Following school closing in June 2019, Branch performed a complete remodel of classroom areas in former administrative offices and the old office area into classroom space.

Compounding building construction was a major sitework project to provide a new water line, sewer line, gas line, and add significant parking areas along with relocating the entrance to the school, developing a new bus lane, and providing bus parking. Sitework began in June 2018 with a major milestone of turning over two of five parking areas in August 2018. Utility work consisted of relocating overhead utilities to underground pathways to improve the overall look of the Greene County Campus. Additionally, a new parking area was constructed in an adjacent town to provide additional parking for the Ruckersville Elementary school.



RIDGEVIEW COMBINED HIGH SCHOOL & MIDDLE SCHOOL

CLINTWOOD, VIRGINIA

OWNER | DICKENSON COUNTY SCHOOL BOARD
309 Volunteer Avenue
Clintwood, VA 24228

ARCHITECT | PERKINS + WILL
1315 Peachtree Street, NE
Atlanta, GA 30309

CONTRACT TYPE | Design-Bid-Build

CONTRACT AMOUNT | $59.2 Million

SF | 285,000sf

As the successful low bidder, Branch Builds, Inc. managed the construction of a primary structure that contains the high school and middle school auditorium, and various athletic and arts program spaces, plus a free standing structure that houses the career education programs. In addition to the new modern academic space, the new facility includes two indoor gymnasiums, locker rooms, coaches' offices, multi-purpose rooms, weight rooms, health classrooms, and spectator seating in the high school competition gym. The site was developed to include a baseball field, softball field, competition football/soccer field with surrounding track and a 3,500-seat stadium, 6 tennis courts and athletic practice fields. Located atop the remote Rose Ridge Mountain crest, this extremely challenging, mountainous site required an enormous total of 787,000 cubic yards of earthwork. The new state-of-the-art Ridgeview school consolidates the former Clintwood, Ervinton, and Haysi High Schools and creates a new middle school for the County.

RECOGNITIONS & AWARDS

*Selected by **Virginia Living Magazine** as one of Virginia's top schools in the Capital Improvements category (2015).*

*Received an Outstanding Project Award for excellence in educational facility design in the spring 2017 of **LEARNING BY DESIGN**. Ridgeview was recognized for its overall plan, architectural design and for having attributes worthy of imitation.*

*Selected by **Virginia Living Magazine** as one of Virginia's top schools in the Science, Math & Technology category for their cybersecurity program (2017).*

FREDERICK COUNTY MIDDLE SCHOOL

WINCHESTER, VIRGINIA

OWNER | FREDERICK COUNTY PUBLIC SCHOOLS
1415 Amherst Street
Winchester, VA 22604

ARCHITECT | STANTEC ARCHITECTURE, INC
609 East Market Street, Suite 202
Charlottesville, VA 22902

CONTRACT TYPE | Design-Bid-Build

CONTRACT AMOUNT | $42.3 Million

TOTAL SF | 190,000sf

Frederick County's newest Middle School was designed from the students' perspective, to foster their academic, physical and social development. The three-level building has a masonry façade and lots of windows to provide daylighting, which is conducive to enhanced learning. Upon entering the building, students, staff and visitors will proceed through the focal point known as the Discovery Zone which includes a media center, an amphitheater stair which can be used for group gatherings, informal seating or performances and end at the dinning commons and cafeteria. The zone overlooks circulating corridors and is overlooked by a corridor known as the Learning Grid which provides access to classrooms. The school is divided into three learning houses, one per grade, each of which includes three highly adaptable learning communities, with classrooms and open areas to meet the most current educational delivery needs. Each learning house is separated on the exterior by a learning garden which provides space for use as an outdoor classroom. The building also includes spaces for fine and performing arts, career and technical education and a gymnasium with an area above that includes a fitness track and fitness rooms. The building was constructed on a 38-acre greenfield site, adjacent to an existing elementary school, requiring extensive clearing and grading to create the building pad, athletic fields and associated parking.

LEARNING BY DESIGN magazine recognized the Frederick County Middle School project as one of three Grand Prize Award winners in its 2017 Architectural Awards Showcase.

PULASKI COUNTY MIDDLE SCHOOL

PULASKI, VIRGINIA

Pulaski County Public Schools
Reach Each Child

OWNER | PULASKI COUNTY PUBLIC SCHOOLS
202 North Washington Avenue
Pulaski, VA 24301

ARCHITECT | RRMM ARCHITECTS
28 Church Avenue, SW
Roanoke, VA 24011

CONTRACT TYPE | Design-Bid-Build

CONTRACT AMOUNT | $37.1 Million

SF | 168,989sf

Branch was the successful low-bidder on the $37.1 million Pulaski County Middle School project for Pulaski County Public Schools. The new 168,989sf, modern 21st century educational facility is sized to accommodate 1,180 students. It has three classroom wings that separately extend out from the main section of the school. The main body of the school houses the auditorium, gym, auxiliary gym, locker rooms, administrative offices, media center, cafe/kitchen and vocational classrooms. Located on a scenic 59-acre site, the structure is a mix of masonry and steel load bearing construction while the exterior is a mixture of brick veneer and metal cladding. The school has plenty of daylighting with large windows and light monitors.

Branch utilized a fast-track construction schedule that was heavily reliant on our Team Centered Planning and Lean Construction program to provide the most efficient construction means and methods possible, as part of Branch's value-added service. The new Pulaski County Middle School allows Pulaski County to consolidate two very old middle schools into this one new facility. The project continues Branch's long history of building K-12 schools in Virginia's New River Valley region.

WASHINGTON & LEE HIGH SCOOL

MONTROSS, VIRGINIA

OWNER | INDUSTRIAL DEVELOPMENT AUTHORITY OF WESTMORELAND COUNTY, VIRGINIA
P.O. Box 1000
Montross, VA 22520

ARCHITECT | GRIMM + PARKER ARCHITECTS
11720 Beltsville Drive Suite 600
Calverton, MD 20705

CONTRACT TYPE | Design-Bid-Build

CONTRACT AMOUNT | $48.8 Million

SF | 141,090sf

This dynamic project consists of the construction of a new Westmoreland High School in Montross, Virginia. The highly anticipated new school sits on approximately 36 acres along State Route 3 in the center of Montross, within sight of the existing high school.

The building consists of both steel frame and bearing wall construction with primarily brick veneer on both masonry and metal stud backup. Metal panel exterior finishes are also included. The classroom and administrative areas comprise a 2-story portion of the building, supported by single-story arts and athletic building areas. Interior construction is both masonry and gypsum board on metal studs. Roofing is predominately a low slope, EPDM system on coverboard, rigid insulation on metal decking.

ROBERT E. AYLOR MIDDLE SCHOOL

STEPHENS CITY, VIRGINIA

Frederick County Public Schools

OWNER | FREDERICK COUNTY SCHOOL BOARD
1415 Amherst Street
Winchester, VA 22601

ARCHITECT | RRMM ARCHITECTS
28 Church Avenue SW
Roanoke, VA 24011

CONTRACT TYPE | CM@Risk

CONTRACT AMOUNT | $41.1 Million

SIZE | 160,000sf

This $41.1 million CM@Risk project involved Branch's comprehensive preconstruction services and the construction of a replacement Robert E. Aylor Middle School (REAMS) in Stephens City, Virginia. Branch worked closely with FCPS and RRMM architects to develop a design and plan that fit within FCPS' budget. After nine months of preconstruction planning, construction commenced. When completed, this fast-track project was delivered an academic year earlier than would have been possible via traditional design-bid-build. In concert with FCPS education plans of collaborative learning environments, the REAMS project incorporated shared learning areas into the design to allow for maximum flexibility for the staff and students. The project was all inclusive of construction and furnishing of the interior of the building as well as construction of outdoor spaces for sports and playgrounds, collaborative learning spaces, segregated bus and vehicular parking.

ROCKY MOUNT HIGH SCHOOL

ROCKY MOUNT, NORTH CAROLINA

OWNER | NASH-ROCKY MOUNT PUBLIC SCHOOLS
930 Eastern Avenue
Nashville, NC 27856

ARCHITECT | SFL&A
Capital Bank Plaza
333 Fayetteville Street, Suite 225
Raleigh, NC 27601

CONTRACT TYPE | Design-Bid-Build

CONTRACT AMOUNT | $35.5 Million

SIZE | 248,000sf | 1,300 students

The Rocky Mount High School project consisted of a new, 2-story 248,000sf high school. The structure consists of load bearing masonry walls with the face being brick exterior walls, including accent brick banding and entry walls covered by a single-ply Energy Star membrane roof. Interior finishes included acoustical tile ceilings, terrazzo, wood floor in the gymnasium, and aluminum entrances with high-performance glass. The project included a fully developed sports facility that highlights a field house, three new concession stands, a new football stadium and track, soccer field, baseball and softball fields and auxiliary practice field. The HVAC system is geothermal and the electrical systems are state-of-the-art with fully automatic lighting controls.

This project was the first LEED Gold Certified High School in the State of North Carolina.

FCPS SCHOOL RENOVATION CAPITAL PROJECT
JAMES WOOD HIGH SCHOOL & INDIAN HOLLOW ELEMENTARY SCHOOL

WINCHESTER, VIRGINIA

OWNER | FREDERICK COUNTY PUBLIC SCHOOLS
1415 Amherst Street
Winchester, VA 22601

ARCHITECT | RRMM ARCHITECTS
28 Church Avenue
Roanoke, VA 24011

CONTRACT TYPE | CM@Risk

CONTRACT AMOUNT | $74 Million

SIZE | 317,865sf

Frederick County Public Schools selected Branch Builds, for the second project in a row, as the Construction Manager at Risk to provide preconstruction and construction services for the multi-faceted renovations and additions to James Wood High School and Indian Hollow Elementary School. Branch is working in partnership with RRMM Architects to design and safely manage the renovations of both schools while they continue to be occupied during the duration of the work, requiring close coordination with FCPS staff and consideration of its academic calendar.

James Wood High School includes the reworking of the site layout to provide improvements to the vehicular traffic patterns through the site, designated parking areas for visitors, buses, faculty/student parking areas, separate loading dock area, a pick-up/drop-off lane, and stacking areas for cars. The new 39,000sf addition will include a new administration area, guidance and clinic suite, multi-media center, central main entrance, cafeteria, dinning area, and kitchen. The 220,000sf interior renovation will consist of areas of heavy renovation that involve the redesign of existing classroom spaces on both levels. This work will involve significant wall demolition/reconstruction, replacement of all ceilings, floor finishes, doors, frames, HVAC equipment, ductwork, piping, plumbing fixtures, and new LED lighting. All existing exterior windows and doors will also be replaced.

Indian Hollow Elementary School renovation includes site improvements, removal and replacement of the exterior CMU masonry veneer and rigid cavity wall insulation, removal and replacement of all exterior windows/doors, installation of new roofing, skylights, and access control system at exterior doors. Additional phased renovation work will take place on the interior of the existing school. All ceilings/lights will be removed and replaced throughout the building, the entire interior of the building will be painted, new hardware, renovated restrooms, and removal and replacement of the existing mechanical system.

VMDO Architects

Firm Overview

Business Philosophy

For 45 years, we have created educational and community-centered environments that connect people and place through design. We strive to enrich the human experience and the long-term stewardship of our planet by emphasizing the spirit of a place through enduring architecture, sustainable design objectives, sensitivity to sites and landscapes, and design transformations that embody a community's highest ambitions.

Our Process

We are inspired by conversations with people. We draw strength from the connections and commitments with talented people formed through genuine collaboration. We enjoy the work we do every day and are committed to a collective atmosphere of openness, trust, and respect. Each new project presents us with a chance to learn rigorously and think creatively about new opportunities and new relationships.

Firm Structure

Between our two offices in Charlottesville, VA and Washington, DC, VMDO has 75 employees. VMDO is organized around three specialized practice areas of K-12 Schools, Higher Education, and Athletics + Community. With 60 architectural staff members (35 licensed), we focus on design for educational and community facilities. We provide internal design resources related to BIM management, visualization/rendering, documentation, specifications writing, and sustainable design expertise which uplift our clients and contribute to best practices at a national level.

Happy, Healthy, High Performing Schools

VMDO believes good designs are ones that make the world a better place. As architects, we have the opportunity – and the responsibility – to challenge conventional thinking, to push ourselves to achieve more than we think possible, and to demonstrate real and inspiring solutions to the problems we face today. We hold ourselves to a high standard and measure our success through tangible results:

- We are leaders in achieving healthy, happy, and high performing schools – evidenced by designing "the most livable building" in 2019 according to UC Berkeley's Center for the Built Environment.
- We are experts in net zero energy design, having designed the first LEED Zero school in the world and what is currently the largest net zero energy building in the United States.

Honors/Awards

VMDO's designs have achieved international and national acclaim from a variety of societies and associations, including: the Association for Learning Environments (A4LE), the AIA's Committee on Architecture for Education (AIA CAE), and the Society for College and University Planners (SCUP). Our commitment to sustainability is evidenced by receipt in 2010 and 2017 of Top Ten AIA Committee on the Environment (COTE) awards,, considered the industry's premier accolade for sustainable design.

VMDO's Additional In-House Resources

Jim Kovach
Associate Principal / Master Planner
20 Years Experience

Frances Lengowski, AIA, LEED AP
Senior Associate / Programming Specialist
15 Years Experience

Dade Van Der Werf, AIA, LEED AP BD+C
Associate Principal / QA/QC Specialist
22 Years Experience

John Ottinger, AIA
Senior Associate / QA/QC Specialist
25+ Years Experience

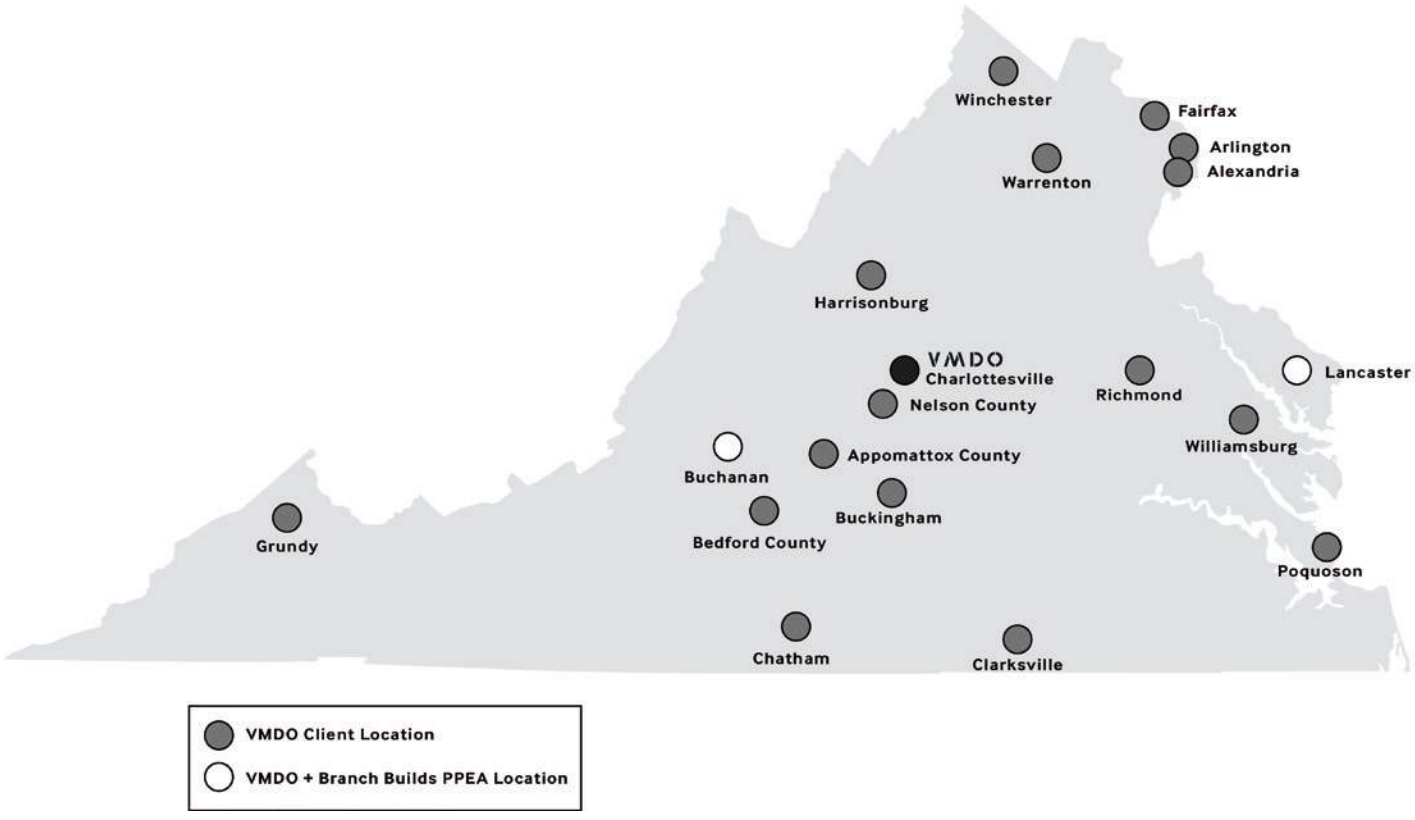
Milo Oakland
Network Administrator
8 Years Experience

Bethany Pritchard
BIM Consultant
20 Years Experience

Thomas Bates
Associate/ Director of Visualization
12 Years Experience

Tricia Schroeder
Principal / Billing & Contracts
20+ Years Experience

VMDO's Local K12 Experience



70+ **Awards for K12 + Community Projects from 2011 to 2021**

30 **Certified LEED Projects**

17 **Recognition + Awards for Discovery Elementary School**

"VMDO is tireless in their mission to transform the lives of children and their communities through their educational facilities and to demonstrate that design does make a difference."

- Elizabeth W. Lawson, FAIA
Former Jury Member, AIA Virginia

We've been able to achieve a high level of design quality and client service that has achieved regional, national, and international recognition from a variety of associations, including:

- **Living Building Challenge / Zero Energy Building Certification** of Discovery Elementary School – currently the largest ZE building of any type in the world certified by the International Living Future Institute who oversees the Living Building Challenge.
- **AIA Committee on Architecture for Education (AIA CAE) Award** recognizing educational excellence of Manassas Park Elementary + Pre-K; Manassas Park, VA (2010) and Buckingham County Primary + Elementary; Dillwyn, VA (2014).
- Based on occupant surveys, **Discovery Elementary School** has received the 2021 **Livable Buildings Award** in from UC Berkeley's Center for the Built Environment. **Bluestone Elementary** was awarded the same distinction in 2019 and also received the Association for Learning Environment's 2019 **Project of Distinction Award**.
- **Discovery Elementary School**, a 2017 AIA Committee on the Environment **(COTE) "Top Ten" Award** recipient, is one of the largest building of any kind, anywhere in the world, to receive zero energy certification by the International Living Future Institute (ILFI). It is also the first recipient of the **USGBC's LEED Zero Energy certification.**
- **Manassas Park Elementary School** is the first project to garner not only the **AIA's Educational Facility Design Award** from the Committee on Architecture for Education (CAE), but to also simultaneously win a prestigious **AIA COTE Award.**
- **Poquoson Elementary School** was Virginia's first LEED Gold Elementary School; **Manassas Park Elementary School** was the second; and **Brownsville Elementary School** was the third – all of which are VMDO elementary school projects.

Add note to John***

2021

Livable Buildings Award
UC Berkeley Center for the Built Environment
Discovery Elementary School; Arlington, VA

Platinum Design Award
Virginia School Board Association
Alice West Fleet Elementary School; Arlington, VA

Visions for Architecture Award
AIA Virginia
Lubber Run Community Center; Arlington, VA

Community Leader Green Schools Award
US Green Building Committee
Alice West Fleet Elementary School; Arlington, VA

Education Facility Design Award
AIA National
Virginia Wesleyan University
Greer Environmental Sciences Center; Norfolk, VA

Education Facility Design Award
AIA National
Bluestone Elementary School; Harrisonburg, VA

2020

World Changing Ideas: Honorable Mention for Education and Spaces, Places, Cities
Fast Company Magazine
Discovery Elementary School; Arlington, VA

Test of Time Award
AIA Virginia
Crozet Elementary School; Crozet, VA

Citation of Excellence
Learning By Design Magazine
Alice West Fleet Elementary School; Arlington, VA

Second Place Technology Award for New Educational Facility
ASHRAE International
Alice West Fleet Elementary School; Arlington, VA

2019

Livable Buildings Award
UC Berkeley Center for the Built Environment
Bluestone Elementary School; Harrisonburg, VA

Inaugural Net Zero Award
U.S. Green Building Council NCR Award
Discovery Elementary School; Arlington, VA

Community Champion Award
U.S. Green Building Council Virginia Chapter
Discovery Elementary School; Arlington, VA

Special Jury Recognition Award
Virginia Chapter of the Association for Learning Environments
Clark Elementary School Modernization, Charlottesville, VA

2018

Platinum Design Award
Virginia School Boards Association
Bluestone Elementary School; Harrisonburg, VA

1st Place Academic Project
Virginia Energy Efficiency Leadership Awards
Discovery Elementary School; Arlington, VA

Grand Prize Award
Learning by Design
Elon W. Rhodes Early Learning Center; Harrisonburg, VA

Outstanding K12 Project
Learning by Design
Bluestone Elementary School; Harrisonburg, VA

Best K12 Design Award
Virginia Chapter of the Association for Learning Environments
Bluestone Elementary School; Harrisonburg, VA

Special Jury Recognition Award
Virginia Chapter of the Association for Learning Environments
Elon W. Rhodes Early Learning Center; Harrisonburg, VA

K12 Planner of the Year Award
Virginia Chapter of the Association for Learning Environments
Rob Winstead; Principal at VMDO

Architecture Merit Award
AIA Virginia
Brooks Family YMCA; Charlottesville, VA

Honor Award
AIA Central Virginia
Brooks Family YMCA; Charlottesville, VA

Honor Award
AIA Central Virginia
Lynchburg City Stadium Renovation; Lynchburg, VA

Honorable Mention Award
AIA Central Virginia
Elon W. Rhodes Early Learning Center; Harrisonburg, VA

Athletic Showcase
Athletic Business Magazine
Brooks Family YMCA; Charlottesville, VA

1st Place Technology Award
ASHRAE
Discovery Elementary School; Arlington, VA

Tucker Design Award
Building Stone Institute
Buckingham County Primary + Elementary Schools; Dillwyn, VA

Additional References + Client Testimonials

Albemarle County Public Schools
Crozet ES, Jouett + Walton Middle School Science Lab Renovation, Brownsville ES
Mr. Matt Wertman
Project Manager
Albemarle County Public Schools
(434) 872-4501 x 3223
mwertman@k12albemarle.org

Arlington Public Schools
Discovery, Fleet & Cardinal Elementary Schools
Mr. Steve Stricker, Senior Project Manager
2770 South Taylor Street
Arlington, VA 22206
(703) 225-6613
steven.stricker@apsva.us

Manassas Park City Schools
Cougar Elementary School, Manassas Park Elementary School, Manassas Park Middle School and High School
Ms. Stacey Mamon, Principal
9298 Cougar Ct.
Manassas Park, VA 20111
(703) 368-2032
stacey.mamon@mpark.net

Harrisonburg City Public Schools
Bluestone Elementary School & Elon Rhodes Early Childhood Learning
Dr. Craig Mackail, Assistant Superintendent/CFO
One Court Square
Harrisonburg, VA 22801
cmackail@harrisonburg.k12.va.us
(540) 434-9916

Buckingham County Public Schools
Buckingham County Primary + Elementary Schools
Cecil C. Snead, II, Ed.D. (Former Superintendent, now with Orange County Public Schools)
200 Dailey Drive
Orange, VA 22960
(540)661-4550 (office)
csnead@ocss-va.org

"I strongly recommend VMDO Architects...Without a doubt, VMDO has been an enormously important contributor to the improvement of our school district and our city. The lives of thousands of Manassas Park students and families are remarkably better today."

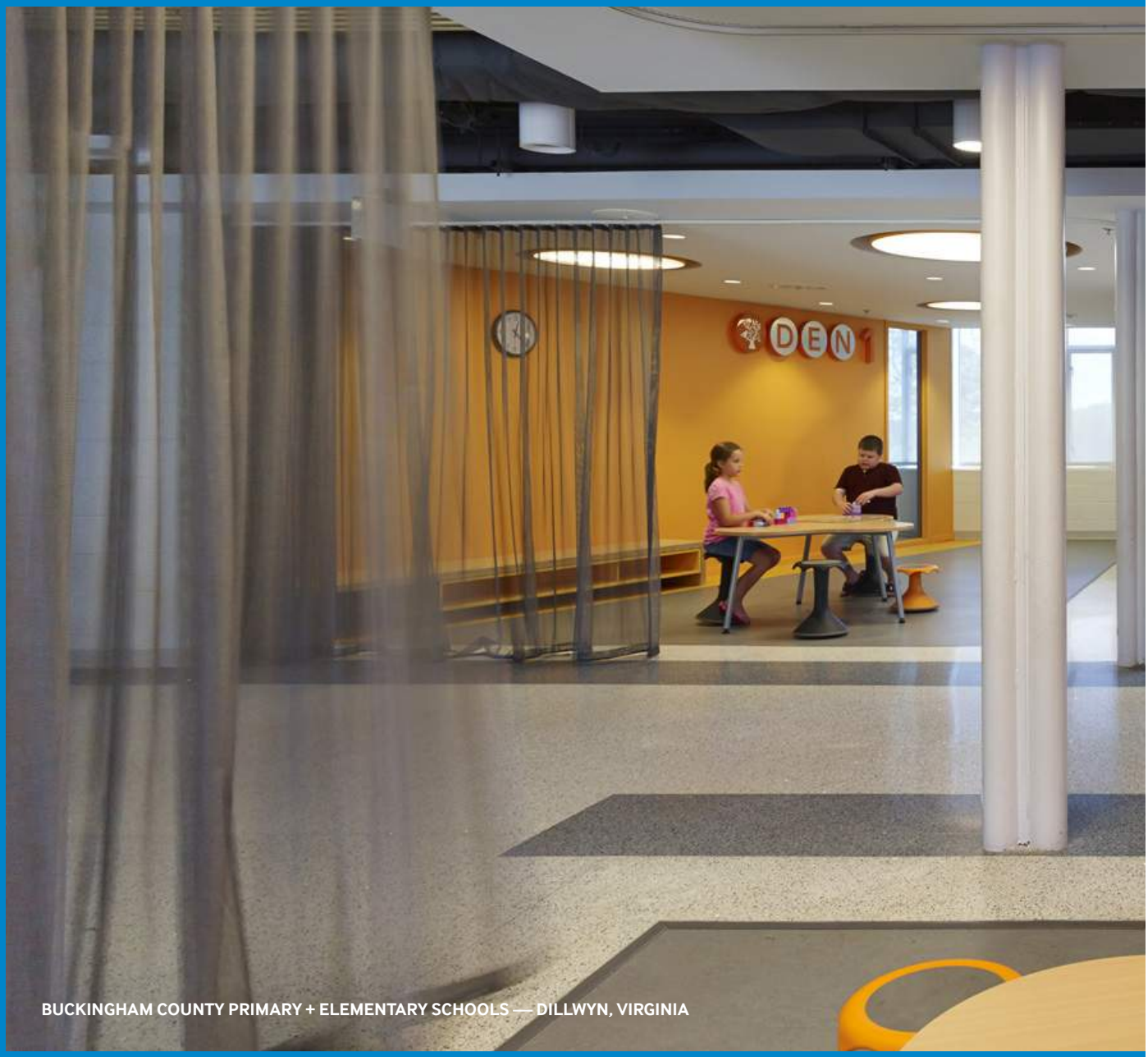
- Thomas H. DeBolt
Former Superintendent
Manassas Park City Schools

"VMDO addressed APS' growing student enrollment while reaching for the highest standards possible in instructional space as well as sustainability, operation costs, and flexibility. They did so while also creating a learning environment that students, teachers, and parents are excited to be a part of "discovering" everyday."

- John C. Chadwick, AIA
Former Assistant Superintendent
Arlington Public Schools

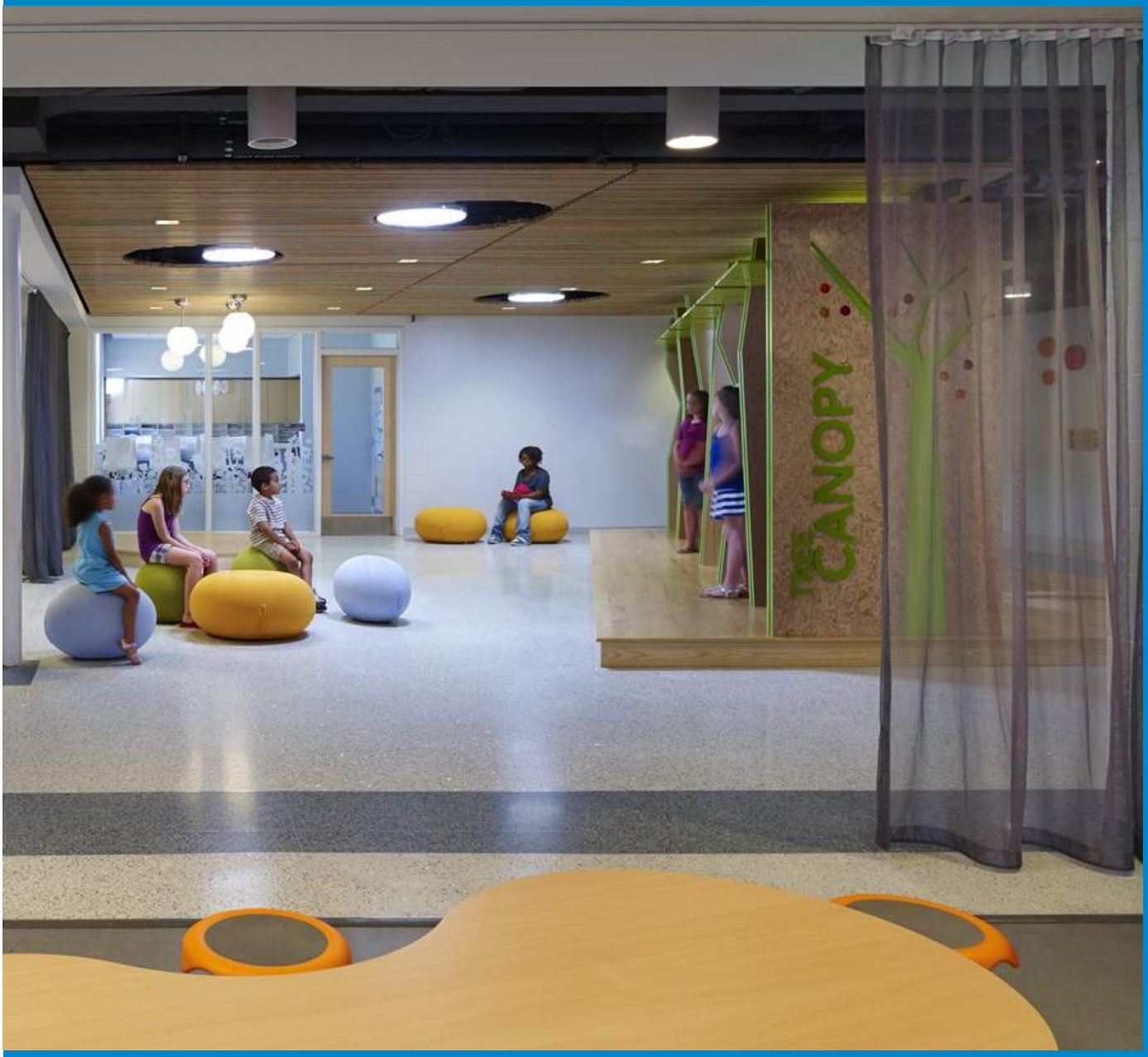
"So many schools seem to isolate children and teachers; this school brings people together and contributes to a sense of trust. That was our goal from the beginning."

- Anne Lintner
Bluestone Elementary School Principal
Harrisonburg City Public Schools



BUCKINGHAM COUNTY PRIMARY + ELEMENTARY SCHOOLS — DILLWYN, VIRGINIA

VMDO believes investing in learning environments yields exponential benefits for children and communities.



Our design process is informed by the following beliefs:

- Schools hold precious cargo
- They serve their primary function during the day, when there is free and abundant daylight and solar energy
- They are defacto centers of communities
- They are places where worldviews are shaped
- And they are expressions of our greatest hopes and aspirations for future generations.

Commitment to Learning Environments

We've dedicated our practice to designing great places to learn that are also great places to be.

We believe happy, healthy, and high performing schools are foundational to the success of communities. This commitment to school design extends to VMDO's designs of community centers, libraries, parks, recreation centers, and places of higher education.

At its core, VMDO's K12 practice is rooted in designing for learners and their learning journey at specific junctures of development – from early education centers; to elementary, middle, and high schools; to centers of innovation and technical training that complement K12 schools.

Our first project in 1976 was for a K12 school. In over 45 years, we have never failed to meet a scheduled school opening.

VMDO has executed 330+ K12 projects, with over 225 of them for repeat clients.

We are leaders in designing schools that double as teaching tools. Integrated in this leadership is a commitment to health – financial, human, and environmental – that ensures the investments made in schools translate into long-term community thriving.

From research, we know that school design impacts student behavior, development, and academic performance. We are at the forefront of thinking about the relationship between design and impact. Our evidence-based designs foster flexibility and collaboration, support hands-on learning, and integrate health and wellness into schools of the future.

As leaders in net zero energy, we ensure projects not only achieve net zero certification but also integrate sustainable features that celebrate community, resilience, and environmental stewardship.

Designing for Health + Wellness

Where children, adolescents, and young adults live, learn, and play impacts health and learning outcomes.

At VMDO, designing for health and wellness means not only focusing on reducing negative outcomes, like reduced absenteeism, social isolation. and stress among occupants; it also means promoting positive outcomes, like improved academic outcomes and teaching students about healthy lifestyles. Our desired result is more connected, better performing, healthier, and more resilient students both within and beyond our buildings.

Well-designed spaces help students achieve their best. Increased ventilation and air filtration, acoustic privacy with visual openness, toxic-free materials and cleaning procedures, access to and views of nature, healthy eating options, and abundant natural light all contribute to less absenteeism and more engagement.

As part of our Buckingham County Primary and Elementary Schools project (featured below), we partnered with public health researchers to co-author *Healthy Eating* and *Physical Activity Design Guidelines for School Architecture* which were published by the CDC and PLOS One, respectively. Featuring over 20 evidence-based spatial domains and 10 core healthy design principles, these design guidelines can be applied by school planners, architects, and educators all over the world to promote health and wellness in school design.

Health and wellness are values we share with our clients. Using a health equity framework, we work across disciplines to create architecture that emphasizes the connections between physical design and health while promoting active, engaged, and joyful learning.

Elementary Schools

VMDO's elementary schools demonstrate performance-based outcomes while engaging students in the building as a teaching tool.

At state, national, and international levels, VMDO's elementary schools have achieved the following milestones:

- **AIA Committee on the Environment Top Ten Awards** for Manassas Park Elementary School and Discovery Elementary School – widely considered the highest honor for sustainable design.
- **AIA Committee on Architecture for Education Awards** for Manassas Park Elementary School and Buckingham County Primary and Elementary Schools – recognizing educational design excellence in architecture.
- **Livable Buildings Award from UC Berkeley's Center for the Built Environment** – based on user surveys demonstrating high occupant satisfaction, excellent design, and innovative operation strategies.
- **International Living Future Institute (ILFI) Zero Energy certification** of Discovery Elementary School. The project is the first verified Zero Energy building certified by the collaborative partnership of the ILFI and New Buildings Institute (NBI).
- **USGBC LEED Zero Energy certification** of Discovery Elementary School. The project is the first school and third building in the world to achieve this recognition.
- **Certification of the first three LEED Gold elementary schools in Virginia** – Poquoson Elementary School, Manassas Park Elementary School, and Brownsville Elementary School.

Our school designs strive to be happy, healthy, and high performing. Crafting places of joy – schools where students and teachers can't wait to get to in the morning, and don't want to leave at night – is the highest and best contribution we can make to the communities we serve.

Our approach to green schools articulates the building itself as a valuable education tool. With the school communities we serve, we align design strategies with actual curriculum content to maximize learning opportunities. Our goal is to grow the next generation of environmental stewards – true sustainability natives who will lead the global community forward in solving the complex issues of the 21st century.

Building as a Teaching Tool

Through graphics that celebrate the unique geography of a place, students learn to become caretakers of each other, their school, and the natural world.

Encouraging Environmental Stewardship

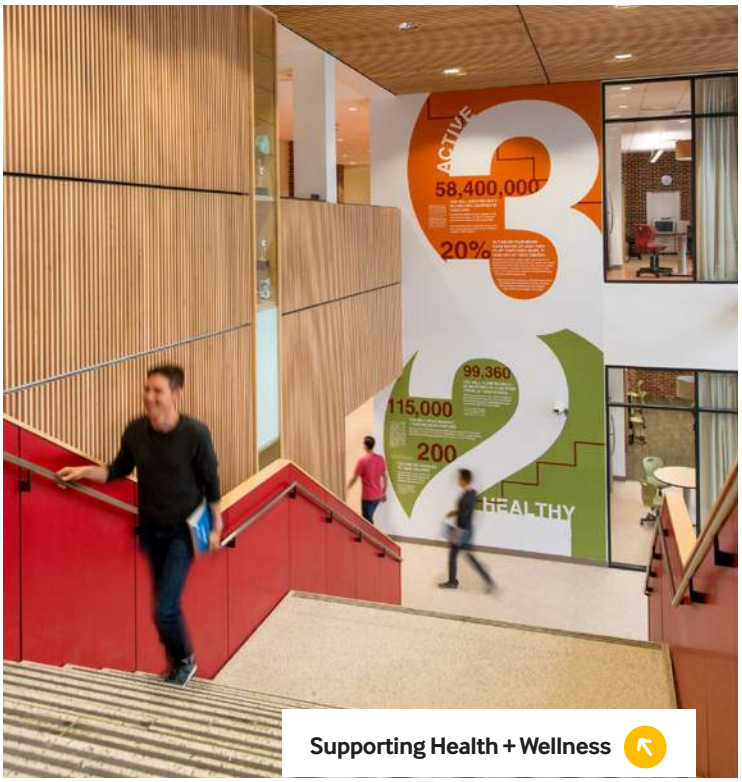
Celebrating Place

Environmental graphics and wayfinding help showcase what is special about a school, its people, and its natural and historical contexts. Graphic theming and storytelling can give identity to a grade, a neighborhood, and a classroom while building comradery and reinforcing curriculum and culture.

Environmental graphics and wayfinding can also encourage healthy behaviors. Stairways, water fountains, healthy food options, and sustainable materials can be co-located with related facts and lessons that inspire healthy habits and behaviors. Fauquier High School (pictured right) was one of the first recipients of the USGBC's LEED innovation credit for Active Occupants. Its large stairway graphics provide friendly reminders to take the stairs!

Discovery Elementary School (pictured left) earned full points within the LEED Innovation credit category which includes the School as a Teaching Tool credit. To foster a culture of stewardship and accountability, sustainable features such as the photovoltaic array are made visible and accessible through learning opportunities like a rooftop solar lab. Data from the adjustable solar lab is fed into the school's building energy dashboard, allowing students to conduct experiments with real-time data.

Our approach to school design articulates the building itself as a valuable education tool.



Supporting Health + Wellness

Evidence-Based Design

VMDO's evidence-based approach combines best practices, thought leadership, and robust analysis to help our clients make informed decisions.

Each of our schools builds on decades of research, user surveys, and innovation to create a continuous feedback loop of improvement. We track the performance of our buildings over time in order to increase their efficiency and save owners money. This collective knowledge-sharing ensures that each of our designs improves upon its predecessor while being tailored to the unique needs and locations of each school community.

We use robust Post-Occupancy Evaluations and building systems commissioning to ensure that our designs perform as intended and work with industry experts to improve outcomes. By conducting Post-Occupancy Evaluations and contributing research, we are able to share lessons learned with our clients, our collaborators, and peers to continuously elevate the conversation around student-centered school design.

Our focus on user outcomes led to Bluestone Elementary School receiving the 2019 Livable Buildings Award from the Center for the Built Environment. Based on occupant surveys and user feedback (excerpted below), this award demonstrates how our relentless focus on occupant health and building performance leads to happier and healthier building occupants and higher performing buildings.

76

The Happiest School in America, Bluestone Elementary School:
76% of Building Users Said the Building Makes Them Feel Happy

Health as a Community Priority:
93% of Building Users Feel More Connected to Nature and the Outdoors

93

86

School as a Community Resource:
86% of Building Users Say the School is a Community Asset

Creating a Safe Learning Environment:
72% of Building Users Believe the Building Promotes a Sense of Safety among Occupants

72

Designing with Communities

VMDO combines the vision of the client with the power of design to solve the planning, programming, and site challenges that are unique to each project both in the short and long terms.

By incorporating input from diverse groups of stakeholders and addressing multi-faceted challenges head-on, our educational designs provide solutions that create meaningful places while respecting each community's social and environmental context.

Our approach relies on establishing rapport with users early in the process, and delivering services with humility, patience and dedication. Building trust starts with listening and being active and present participants in necessary dialogue from day one. Ultimately, our job is to make sure that all analysis, design work, and research is presented in a way that is understandable and facilitates effective decision-making.

Gathering input from stakeholders and community members is a highly interactive process. As a team, we are prepared to gather input through interviews and focus groups, interactive workshops and programming sessions, online surveys, and on-site engagement. An important part of the design process involves identifying common goals and arriving at a solution that has broad appeal. Through a well-organized process, we ensure that stakeholders and community members feel heard and have opportunities to share feedback.

As a JUST-labeled firm, VMDO publicly reports on 22 social and equity indicators and engages staff in ongoing dialogue about what it means to be a socially just and equitable organization. Building on the JUST framework, we see community engagement as a means to give power and influence to traditionally marginalized communities – including students!

Sustainability Expertise

VMDO maintains sustainability checklists on all projects, whether clients are asking for certification or not, because we believe CHPS / LEED are good vehicles for engaging stakeholders in an integrated design process and maintaining accountability to project goals.

VMDO has successfully achieved numerous innovation points in the LEED rating system specifically, including exemplary performance for energy and water use, renewable energy production, maximizing open space, the "Building as a Teaching Tool" pilot credit, green cleaning policies, and walkable project sites. Current projects are targeting the expanded Materials Assessment Criteria pilot credits and exemplary energy and water performance.

In addition to the LEED Building Design + Construction (BD+C) rating system, VMDO has experience with the new LEED Zero program. In July 2019, Discovery Elementary was the first school and the third project ever to receive the LEED Zero Energy Certification.

Selected K-12 LEED Gold and CHPS Designed Projects:

North Springfield Elementary School
CHPS Designed

Discovery Elementary School
LEED Gold Certified + LEED Zero Energy Certified

Bluestone Elementary School
LEED Gold Certified

Buckingham Primary + Elementary Schools
LEED Gold Certified

Jefferson-Houston PreK-8 School
LEED Gold Certified

Broad Rock Elementary School
LEED Gold Certified

Oak Grove-Bellemeade Elementary School
LEED Gold Certified

Brownsville Elementary School
LEED Gold Certified

Fauquier High School
LEED Gold Certified

Manassas Park Elementary + Pre-K Schools
LEED Gold Certified

Poquoson Elementary School
LEED Gold Certified

Manassas Park Elementary School + Pre-K - LEED Gold

Fauquier High School - LEED Gold Certified

Discovery Elementary School - LEED GOLD Certified, LEED Zero Energy Certified

VMDO has over 4.2 million square feet of work that is either LEED Certified or in the process

Net Zero Energy + High Performance Experience

Schools' operating dollars are some of the most precious of all public tax dollars – and are increasingly under strain. Small details can make a big difference in achieving sustainable goals. By incorporating common-sense solutions that conserve energy, facilitate easy maintenance, and prolong durability, thousands of dollars in operating costs can be redirected back to school budgets to invest in programming, salaries, and capital improvements. Healthy, high performance buildings pay significant dividends long after the construction process is over.

K-12 schools are extremely well placed to generate their own energy and sell the excess to their local utility companies. For example, during competitive design procurement for Discovery Elementary School, VMDO suggested a net zero energy goal could be accomplished within the LEED Silver budget. Not only did Discovery end up coming in under budget, including the solar array, but the building is also operating more efficiently than originally predicted, which means the school district receives thousands of dollars a year from the utility for the excess renewable power it exports to the grid.

Discovery ES is one of the largest verified Zero Energy buildings of any kind, anywhere in the world. The U.S. Department of Energy launched the Net Zero Accelerator at Discovery – a national partnership aimed at demonstrating how investing in renewable energy translates into cost savings and enhanced learning

Discovery Elementary School - 2018 energy demand, before renewables

Discovery Elementary School saves $117,000 in annual utility costs. Arlington County can operate 12 Discovery's for the same cost as one of their

Bluestone Elementary School - 2018 energy demand

Fleet Elementary School - projected energy demand, before renewables

Health + Wellness Experience

At VMDO, designing for health and wellness means not only focusing on reducing negative outcomes, like reduced absenteeism, social isolation and stress among occupants; it also means promoting positive outcomes, like improved academic outcomes and teaching students about healthy lifestyles. Our desired result is more connected, better performing, healthier and more resilient students both within and beyond our buildings. In the end, a well-designed space helps students achieve their best.

Light

The connection between glare-free lighting and student performance is one of the most well-documented correlations in building science research. VMDO's learning environments rely on daylighting as the primary light source while controlling glare through a mixture of design and user control. Natural light is supplemented with electric lighting selected for proper color rendering and glare-free performance.

Chatham Hall Health + Wellness Center

Indoor Air Quality

Students and teachers perform better, and have fewer sick days, in schools with clean, fresh air. Our approach to indoor air quality consists of decoupling ventilation from heating/cooling, designing in maintenance requirements from the outset, controlling pollutant sources, providing excellent filtration, selecting the right materials, and demand-response controls.

Western Albemarle High School Science Addition

Movement

Lack of movement is as negatively impactful as smoking when it comes to health. Occupants of our schools "move more and sit less" through furniture specifications that encourage movement, natural play areas that increase agility and balance, and highly visible and attractive stairs that allow occupants to move and congregate with ease.

Fauquier High School

Access to Nature

Connection to nature lowers stress and improves productivity. In addition to direct physical and visual access to the outdoors, our schools provide outdoor classrooms and teaching landscapes. We bring nature into our schools through materials, imagery and patterns, wayfinding and educational graphics.

"I can't overstate how much of a difference it makes to see the mountains and the sunrise and sunset from my classroom. It is so calming to me and

— Bluestone Elementary Educator

Pedagogy Baked In

A pioneer in net zero energy school design, VMDO has provided educational environments that are carbon-neutral, but data-rich. Schools are the perfect setting for providing tangible, age-appropriate lessons that encourage students to take ownership of their sustainable school and contribute to a clean-energy future. Real-time data on energy and water usage available on a building energy dashboard can be used in school projects and lesson plans to support hands-on learning and engagement with environmental stewardship.

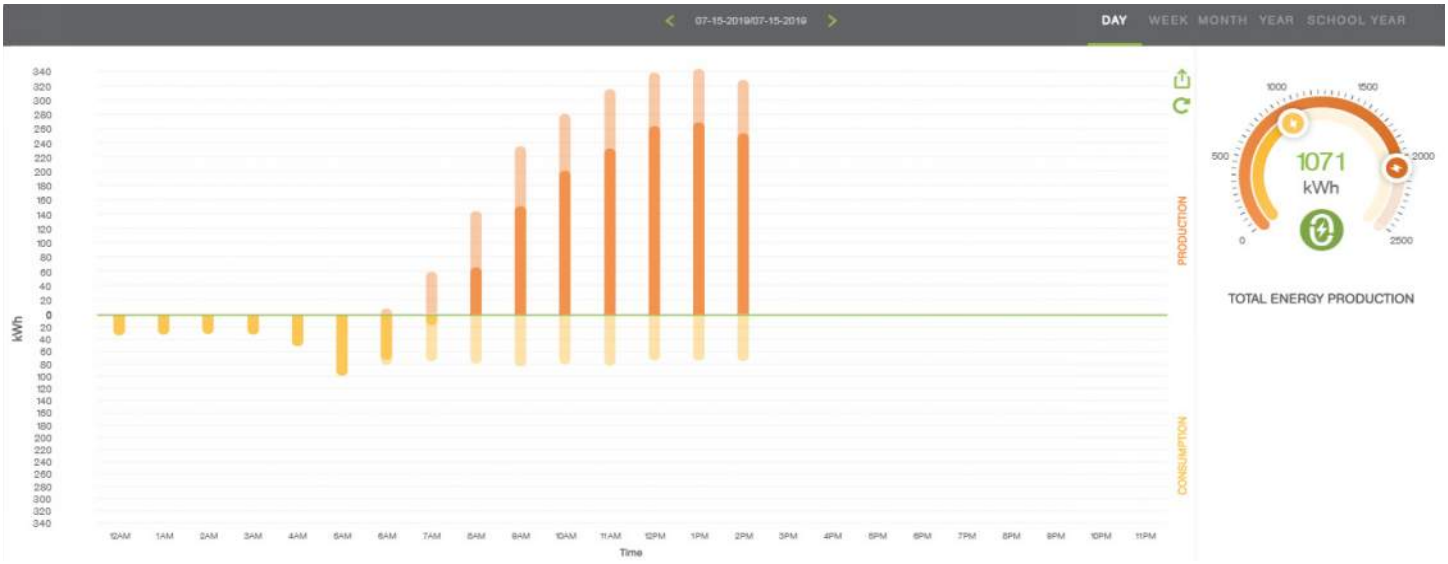
At Discovery Elementary, for instance, VMDO worked with the school's principal and educators to co-develop a shared vision for an educational experience grounded in sustainability. The process has helped redefine the idea of a "building as a teaching tool" through the building's integration of innovative teaching environments, a solar learning lab, environmental graphics, sustainability-themed wayfinding, and a real-time building dashboard custom built to meet educator needs.

Fauquier High School - Educational Graphics + Displays

Manassas Park Elementary School + Pre-K - Rainwater Cistern

Discovery Elementary School - Solar Lab

Bluestone Elementary School - Place-based Wayfinding



Discovery Elementary - Energy Dashboard (on-line and open to the public)

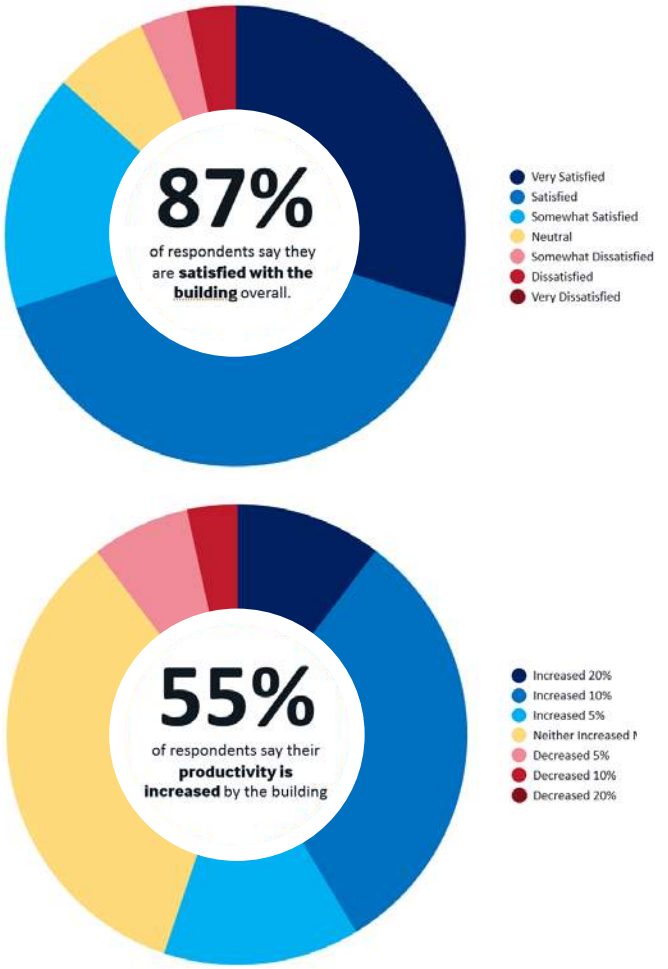
Post-Occupancy Evaluations

Modeled results provide one part of the picture. Only by understanding how a building performs over time and how it is actually used can true progress be made.

VMDO performs robust Post-Occupancy Evaluations (POEs) of both quantitative and qualitative data. We compare water use, energy use, and energy generation over time to verify that designs perform as intended. For example, through the POE process at Discovery Elementary School, we learned that in its first year, the school was performing better than modeled, with an actual Energy Use Intensity of 15.3 kBTU/sf/year (versus the 21kBTU/sf/year modeled projection).

To gather qualitative data, VMDO has collaborated with UC Berkeley's Center for the Built Environment (CBE), the leading researcher in post-occupancy evaluations, to create a custom survey that solicits feedback on occupant comfort, sustainability, design, community, safety and health. We supplement this information with face-to-face interviews and on-site observations to better understand how well a building is meeting the needs of building operators, administrators, and students.

Our designers also work with industry experts to improve outcomes through immediate and long-term problem-solving. For example, at Buckingham Elementary, VMDO partnered with educators, public health scientists and manufacturers to study the effectiveness of design strate-

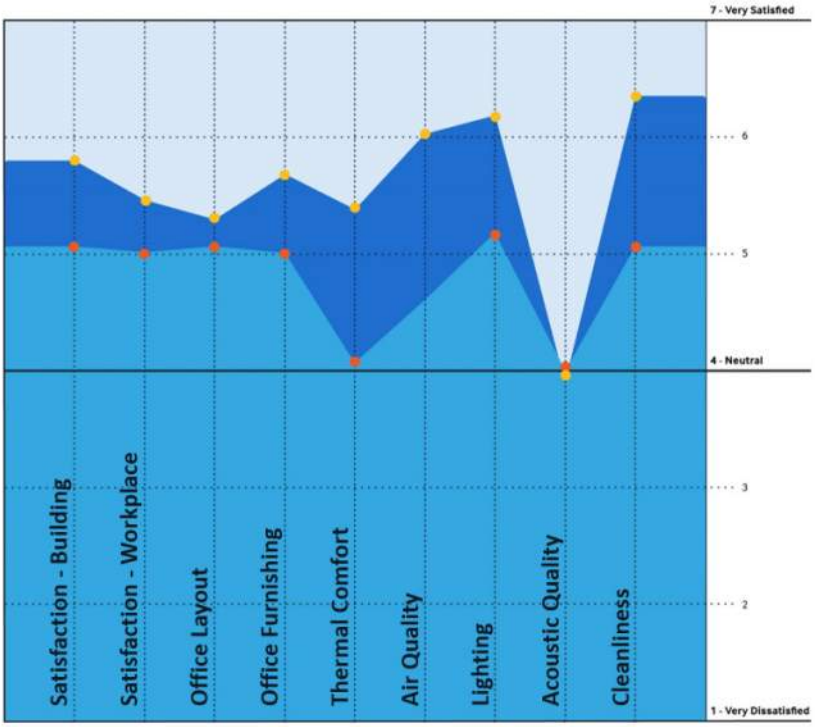


Bluestone Elementary: Post Occupancy Survey Results

Bluestone Elementary School

vs.

CBE Database Average



"As the Chair of the BLPC for the new elementary school at the Williamsburg campus, I had the opportunity to work with ... VMDO. Throughout the entire BLPC process I was impressed with the work VMDO produced. They did an amazing job of taking into account the natural environs surrounding the property, as is evidenced by the way the new elementary school is being worked into the hill that already existed at the site, as well as working with the community members in the immediate vicinity of the site. As a parent of two children who will be attending the new elementary school, I am very excited for the completed project. VMDO has shown that they know how to build a school and how to turn the school as well as the building process into a fabulous learning experience."

Leslie Paul
Building Level Planning Committee Chair

VMDO

VMDO's K12 Studio

45 Years of Serving Over 40 School Districts in the Mid-Atlantic

VMDO's K12 studio has nationally recognized expertise in: pre-K, elementary, middle, and high school planning and design focusing on educating the whole child, health + wellness research, high performance schools, and how the building itself can be a tool for teaching. We have served over 40 public school districts in Virginia and the Mid-Atlantic since our founding in 1976.

Albemarle County Public Schools; Charlottesville, Virginia
Alexandria City Public Schools; Alexandria, Virginia
Aleph Bet Preschool; Richmond, Virginia
Appomattox County Public Schools; Appomattox, Virginia
Arlington Public Schools; Arlington, Virginia
Augusta County Public Schools; Fishersville, Virginia
Bedford County Public Schools; Bedford, Virginia
Benjamin Franklin High School; New Orleans, Louisiana
Blue Ridge School; St. George, Virginia
Buckingham County Public Schools; Buckingham, Virginia
Catholic Diocese of Arlington; Arlington, Virginia
Charlottesville City Schools; Charlottesville, Virginia
Chatham Hall; Chatham, Virginia
Clarke County Public Schools; Berryville, Virginia
Covington City Public Schools; Covington, Virginia
Culpeper County Public Schools; Culpeper, Virginia
Department of Defense Education Activity; Alexandria, Virginia
Essex County Public Schools; Tappahannock, Virginia
Fairfax County Public Schools; Fairfax, Virginia
Fauquier County Public Schools; Warrenton, Virginia
Goochland County Public Schools; Goochland, Virginia
Greene County Public Schools; Stanardsville, Virginia
Hanover Public Schools; Ashland, Virginia
Harrisonburg City Public Schools; Harrisonburg, Virginia
Henrico County Public Schools; Henrico, Virginia
Henry County Public Schools; Collinsville, Virginia
Howard County Public Schools; Howard County, Maryland
International School of Charlottesville; Charlottesville, Virginia
Lancaster County Public Schools; Kilmarnock, Virginia
Louisa County Public Schools; Mineral, Virginia
Louisiana Recovery School District; New Orleans, Louisiana
Manassas City Public Schools; Manassas, Virginia
Manassas Park City Schools; Manassas Park, Virginia
Montgomery County Public Schools; Montgomery County, Maryland
Miller School of Albemarle; Charlottesville, Virginia
Nelson County Public Schools; Lovingston, Virginia
Orange County Public Schools; Orange, Virginia
Poquoson City Public Schools; Poquoson, Virginia
Powhatan School; Boyce, Virginia
Prince George's County Public Schools; Prince George's County, MD
Radford City Public Schools; Radford, Virginia
Rappahannock County Public Schools; Washington, Virginia
Richmond Public Schools; Richmond, Virginia
Stafford County Public Schools; Stafford County, Virginia
Staunton City Schools; Staunton, Virginia
Trinity Episcopal Church and School; New Orleans, LA
Waynesboro Public Schools; Waynesboro, Virginia
Williamsburg-James City Co. Public Schools; Williamsburg, Virginia
Winchester Public Schools; Winchester, Virginia
Woodberry Forest School; Woodberry Forest, Virginia

Albemarle Co. Public Schools: W. Albemarle HS Environmental Studies Academy

Alexandria City Public Schools: Jefferson Houston PreK-8 School

Arlington Public Schools: Discovery Elementary School

Bedford County Public Schools: Forest Middle School Renovation + Addition

Albemarle County Public Schools (Charlottesville, VA)
Albemarle High School Renovation + Physical Education Facility
Albemarle High School Addition
Broadus Wood Elementary School Renovation + Addition
Brownsville Elementary School Addition + Renovation
Burley Middle School Renovation
Crozet Elementary School
Hollymead Elementary School Renovations
Jouett Middle School Lab Space Modernization
Red Hill Elementary School
Scottsville Elementary School
Stone Robinson Middle School Study
Urban Area Elementary School Site Study
Walton Middle School Lab Space Modernization
Western Albemarle Environmental Studies Academy
Western Albemarle High School Science Classroom Addition
Woodbrook Elementary School Repairs + Study

Alexandria City Public Schools (Alexandria, VA)
Jefferson Houston PreK-8 School

Appomattox County Public Schools (Appomattox County, VA)
Appomattox Elementary School

Arlington Public Schools (Arlington, VA)
Alice West Fleet Elementary School
Arlington Traditional School Addition Study
Barcroft Elementary School Study
Barrett Elementary School
Campbell Elementary School Study
Carlin Springs Elementary School Renovation Study
Discovery Elementary School
Drew Elementary School Improvements
Elementary School Site Study
Gunston Middle School Capacity Study
Kenmore Middle School Study and Reno. / Add.
McKinley Elementary School Renovation Study
Middle School Capacity Study
Middle School at Lubber Run Study
Randolph Elementary School Addition Study
Reed Elementary School
Williamsburg Middle School Capacity & Expansion Studies
Wilson Middle School Study

Augusta County Public Schools (Fishersville, VA)
Stuarts Draft High School Addition + Renovation
Wilson Memorial High School Addition + Renovation

Bedford County Public Schools (Bedford, VA)
Forest Middle School Renovation + Addition

Ben Franklin High School Campus Master Plan

Ben Franklin High School (New Orleans, LA)
Campus Master Plan

Blue Ridge School (St. George, VA)
Learning Center + Science Renovation

Buckingham County Public Schools (Dillwyn, VA)
Buckingham County Primary + Elementary Schools Reno. / Add.
Bus Garage + Maintenance Facility

Catholic Diocese of Arlington (Arlington, VA)
Paul VI Catholic High School

Buckingham County Public Schools: Primary + Elementary Renovation / Addition

Charlottesville City Schools (Charlottesville, VA)
Buford Engineering Design Academy at Buford MS
Burnley-Moran Elementary School Modernizatio
Capacity Study
Capital Improvements Study
Charlottesville High School STEM Labs Renovation
Clark Elementary School Renovation
Jackson-Via Elementary School Modernization
Greenbrier Elementary School Renovation
Venable Elementary School Renovation
Walker Upper Elementary School Renovation

Charlottesville City Schools: Buford Engineering Design Academy

Chatham Hall (Chatham, VA)
Campus Planning Study
Dabney + Pruden Halls Renovation
Dining Hall Renovation
Health and Wellness Center
Library Renovation / Addition
Science Center
Van Voorhis Recital + Lecture Hall

Clarke County Public Schools (Berryville, VA)
Boyce Elementary School Renovation + Addition
Facilities Condition Study
Johnson-Williams Middle School Renovation + Addition
Clarke County High School Program + Concept Design

Chatham Hall: Health and Wellness Center

Covington City Public Schools (Covington, VA)
Capital Improvements Study
Covington High School Renovation
Jeter-Watson Middle School Renovation

Cristo Rey (Richmond, VA)
New High School Study

Culpeper County Public Schools (Culpeper, VA)
Division-Wide Facilities Study

Department of Defense Education Activity: Humphreys East Elementary School

Department of Defense Education Activity (Global)
Humphreys East Elementary School (Pyeongtaek, Korea)
Quantico Middle + High School (Quantico, VA)

Essex County Public Schools (Tappahannock, VA)
Essex County High School Renovation
Tappahannock Elementary School Feasibility Study

Fairfax County Public Schools (Fairfax, VA)
North Springfield Elementary School Renovation + Addition

Fauquier County Public Schools (Warrenton, VA)
Fauquier High School Renovation + Addition

Fairfax Co. Public Schools: N. Springfield Elemenetary School Renovation + ddition

Goochland County Public Schools (Goochland, VA)
Byrd Elementary School Renovation + Addition
Goochland Elementary School Renovation
Goochland High School Renovation
Randolph Elementary School Renovation + Addition

Greene County Public Schools (Stanardsville, VA)
Comprehensive Facilities Study
William Monroe Middle School + High School Renovation + Addition

Hanover Public Schools (Ashland, VA)
Liberty Middle School Renovation + Addition

Fauquier County Public Schools: Fauquier High School Renovation / Addition

Harrisonburg City Public Schools (Harrisonburg, VA)
Bluestone Elementary School
Elon W. Rhodes Early Learning Center
New Harrisonburg High School Study

Henrico County Public Schools (Henrico, VA)
Rolfe Middle School Addition

Henry County Public Schools (Collinsville, VA)
Capital Improvement Plan

Howard County Public Schools (Howard County, MD)
Net Zero Consulting

Harrisonburg City Public Schools: Bluestone Elementary School

International School of Charlottesville (Charlottesville, VA)
New School

Lancaster County Public Schools (Kilmarnock, VA)
Comprehensive Facilities Study
Master Plan and New K-12 Educational Campus
Middle School Renovation + Addition

Louisiana Recovery School District: Edna Karr High School

Manassas City Public Schools: Manassas Park Elementary School + PreK

Manassas City Public Schools: Manassas Park Middle School

Poquoson City Public Schools: New Elementary School

Louisa County Public Schools (Mineral, VA)
Facilities Study
Louisa County High School Renovation + Addition
Administration Building
Elementary School

Louisiana Recovery School District (New Orleans, LA)
Edna Karr High School
George Washington Carver High School

Manassas City Public Schools (Manassas, VA)
Baldwin Elementary School

Manassas Park City Schools (Manassas Park, VA)
Comprehensive Facilities Study
Cougar Elementary School
Manassas Park Elementary School + Pre-K
Manassas Park High School
Manassas Park High School Addition
Manassas Park Middle School

Miller School of Albemarle (Charlottesville, VA)
Master Planning Study

Montgomery County Public Schools (Montgomery County, MD)
Poolesville High School Renovation + Additions

Nelson County Public Schools (Lovingston, VA)
Rockfish River Elementary School
Tye River Elementary School

Orange County Public Schools (Orange, VA)
Orange County High School Renovation + Addition

Poqouson City Public Schools (Poquoson, VA)
Poquoson Elementary School

Prince George's County Public Schools (Prince George's County, MD)
Feasibility Studies for Adelphi Middle School, Glenridge Middle School, and New International School
Woodmore Elementary School Feasibility Study

Radford City Public Schools (Radford, VA)
Facilities Assessment

Rappahannock County Public Schools (Washington, VA)
Rappahannock Elementary School Renovation + Addition

Richmond Public Schools: Oak Grove-Bellemeade Elementary School

Stafford Co. Public Schools: Ferry Farm Elementary School Additions / Renovations

Winchester Public Schools: Shihadeh Innovation Center Study + Design

Richmond Public Schools (Richmond, VA)
Broad Rock Elementary School
Dove Street Elementary School Study
George Mason Elementary School Study
Oak Grove-Bellemeade Elementary School

Stafford County Public Schools (Stafford, VA)
Ferry Farm Elementary School Additions / Renovations

Staunton City schools (Staunton, VA)
Arthur R. Ware Elementary School Renovation + Addition
Thomas C. McSwain Elementary School Renovation + Addition

Trinity Episcopal Church and School (New Orleans, LA)
Trinity Episcopal Church and School Campus Master Plan

Waynesboro Public Schools (Waynesboro, VA)
Comprehensive Facilities Study
Waynesboro High School Renovation + Addition
Westwood Hills Elementary School Renovation + Addition

Williamsburg-James City County Public Schools (Williamsburg, VA)
Community Long-Range Planning Committee Facilitator

Winchester Public Schools (Winchester, VA)
Daniel Morgan Middle School Addition + Renovation
Frederick Douglass Elementary School
John Handley High School Feasibility Study + Expansion
John Handley High School Addition + Renovation
John Handley High School Football Stadium / Bowl
John Handley High School Patsy Cline Theatre Renovation
John Kerr Feasibility Study
Shihadeh Innovation Center Study + Design

Woodberry Forest School (Woodberry Forest, VA)
Dormitory
Chapel Renovation
Walker Building
Library

Buckingham County Primary and Elementary School

Below is a list of recent VMDO projects that align with the scope of work of the new Clarksville Elementary School. These happy, healthy and high performing schools are the result of an inclusive, evidence-based process led by VMDO to maximize the impact of every dollar toward the potential of every child.

	Elementary School	Kitchen / Cafeteria	Auditorium + Multi-Use Space	Gymnasium + Recreation Spaces	Flexible Teaching Spaces	Administrative Offices	Teacher's Lounge / Work Area	Technology-Rich Spaces + Media Centers	Occupied Site Through Construction	Outdoor Learning	NZE / Sustainable Design Strategies	Site Planning for Parking and Circulation	Playground Area	Music / Art Centers	Located in the Commonwealth of Virginia	New Construction / Significant Addition
Harrisonburg City Public Schools **Bluestone Elementary School**	●	●	●	●	●	●	●	●		●	●	●	●	●	●	●
Albemarle County Public Schools **Crozet Elementary School Renovation + Addition**	●	●		●	●	●	●	●	●	●	●	●	●		●	●
Arlington Public Schools **Cardinal Elementary School**	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Buckingham County Public Schools **Buckingham County Elementary School**	●	●	●	●	●	●	●	●		●	●	●	●	●	●	●
Arlington Public Schools **Alice West Fleet Elementary School**	●	●	●	●	●	●	●	●		●	●	●	●	●	●	●
Arlington Public Schools **Discovery Elementary School**	●	●	●	●	●	●	●	●		●	●	●	●	●	●	●
Manassas Park City Schools **Manassas Park Elementary School**	●	●	●	●	●	●	●	●		●	●	●	●	●	●	●
Poquoson City Public Schools **Poquoson Elementary School**	●	●	●	●	●	●	●			●	●	●		●	●	●
Fairfax County Public Schools **North Springfield Elementary School**	●	●	●	●	●	●	●		●	●		●	●	●	●	
Chatham Hall **Various Campus Projects**		●	●	●	●				●			●		●	●	●
Lancaster County Public Schools **New K-12 Campus**	●	●	●	●	●	●	●			●	●	●			●	
Charlottesville City Schools **Clark Elementary School**	●				●			●			●				●	
Charlottesville City Schools **Burnley-Moran Elementary School**	●				●			●	●	●	●				●	
Alexandria City Public Schools **Jefferson Houston PK-8**	●	●	●	●	●	●	●	●		●	●	●	●	●	●	●
Bedford County Public Schools **Forest Middle School Renovation + Addition**			●	●	●	●	●	●	●	●	●	●			●	●
Charlottesville City Schools **Buford Middle School Reconfiguration**		●	●	●	●	●	●	●	●	●	●	●		●	●	
Harrisonburg City Public Schools **Elon W. Rhodes Early Learning Center**					●	●			●	●	●	●	●		●	●
Stafford County Public Schools **Ferry Farm Elementary School**	●				●	●		●	●	●	●		●		●	
Montgomery County Public Schools **Poolesville High School**		●	●	●	●	●	●	●	●	●	●	●				●

Project detail included with client references on subsequent pages.

Discovery Elementary School

Arlington Public Schools — Arlington, Virginia

Break-out Group Learning Spaces

Project Overview

Completion
August 2015

Total Cost
$42,902,827

Scope
97,588 SF New Construction

Grades + Capacity
Pre-K-5 - 685 students

Client Reference
Mr. Steve Stricker
Senior Project Manager
Arlington Public Schools
(703) 228-7749
steven.stricker@apsva.us

Project Summary

Discovery Elementary School is Arlington Public School's first elementary school designed in the 21st century. While built to address rapidly growing student enrollment in Arlington, its design provides a model for 21st century learning and demonstrates how a building can support how and where students learn. The design leverages every nook and cranny of the school to create seamless integration between design, sustainability, and learning.

The school was designed to be a zero-energy building and has been an overall trailblazer for zero-energy schools, both in demonstrating performance and engaging students in the "building as a teaching tool" philosophy. From a custom-designed cloud-based building dashboard that tracks energy data in real-time (making it available to educators to use in everyday curriculum), to a rooftop photovoltaic and solar thermal learning lab, to several dozen factoids that feature facts and illustrations – the design prompts students to question, reflect, and become active participants in their school as a teaching tool.

The design takes advantage of topography to create distinct, tiered academic zones and separate exterior play spaces for early childhood, primary, and elementary grade levels, resulting in a building massing that is sensitive to the scale of the surrounding residential neighborhood. Integrated in the building's wayfinding system are design features and graphics that create age-appropriate educational opportunities while supporting curriculum. Discovery's integration of design, sustainability, and learning creates a unique school that promotes student engagement and environmental stewardship while advancing the city's carbon and energy goals.

From this project, VMDO has mastered sustainable design and is equipped to help interested school disctricts explore or pursue net-zero ready educational facilities. Since completing Discovery, VMDO has helped clients design both net-zero and net-zero ready facilities based on their needs and the desires of their community members.

Breakout Area with School Slide

Discovery Elementary is the first school and third project to receive the U.S. Green Building Council's LEED Zero Energy certification.

Discovery is one of the largest zero-energy buildings of any kind anywhere in the world and the first to receive Zero Energy certification by the collaborative partnership of the International Living Future Institute and New Buildings Institute.

Solar Lab with Photovoltaic Arrays

Bluestone Elementary School

Harrisonburg City Public Schools — Harrisonburg, Virginia

Corridor with Rock Wall

Project Overview

Completion
August 2017

Total Cost
$31,055,000

Scope
103,700 SF
New Construction

Grades + Capacity
K-5 - 755 students

Client Reference
Dr. Craig Mackhail
Assistant Superintendent of
Operations & School Safety
Harrisonburg City Public Schools
(540) 434-9916
cmackail@harrisonburg.k12.va.us

Project Summary

Nicknamed "the friendly city," Harrisonburg is a designated refugee relocation city. 35% of students identify as English Language Learners, representing over 60 different countries and speaking 58 languages. The design of Bluestone Elementary School embraces cultural diversity while highlighting the relationship between the school and its global context – helping students relate to the larger world while feeling part of a community designed just for them.

The design embraces cultural diversity through design and programming. Near the lobby, a representative international flag exhibit highlights the diversity of the student population. Below the lobby is a Dining Commons that emphasizes the significance of dining, sharing, and gathering as a community. Through a flexible program that promotes learning, activity, and community, the school's architecture celebrates diversity while honoring core values of creativity, expression, and identity.

The design of the school also provides a variety of spaces for all scales of learning and welcoming public areas. The school features 3 floors, including 42 core learning studios organized into grade-level "neighborhoods." Neighborhoods support differentiated learning by providing a variety of core learning spaces, breakout areas, and teacher resource rooms that can be leveraged in different ways to support desired levels of autonomy and collaboration. The school also maximizes views of the Shenandoah Valley and other natural surroundings. A wayfinding system celebrates Harrisonburg's unique geography and ecology.

Bluestone Elementary School is located on a 10.8-acre site that is a unique post-agricultural landscape with varied topography, rock outcroppings, and sweeping views of the mountains – affording dynamic opportunities for a place-based learning landscape. **VMDO strategically designed a compact, three-story massing that would maximize the site area and ensure every square foot was efficiently utilized. Through this project, VMDO supported a diverse set of stakeholders in order to design a facility that supported student and community needs.**

Exterior of Dining Commons with Garden Access

Natural Landscape Features

Extended Learning Area

Studio Classroom with Flexible Partition

Alice West Fleet Elementary School

Arlington Public Schools — Arlington, Virginia

Entrance to school

Project Overview

Completion
September 2019

Total Cost
$59,250,000

Scope
109,988 SF
New Construction

Grades + Capacity
Pre-K-5 - 752 students

Client Reference
Mr. Steve Stricker
Senior Project Manager
Arlington Public Schools
(703) 228-7749
steven.stricker@apsva.us

Awards
VSBA 2021 Platinum Design Award for New Construction

Project Summary

Reflecting a strongly-voiced community desire to "build up, not out," Fleet Elementary School is Arlington's first four-story elementary school – and one of the first in the Mid-Atlantic. The school is also the second of three net zero energy schools for Arlington Public Schools (APS). In part because of APS' commitment to net-zero energy, Arlington County was the first locality in Virginia to commit to 100% renewable electricity by 2035. Fleet Elementary School features a 500kW rooftop solar array with geothermal heating and cooling as well as numerous design innovations that reduce the school's carbon footprint while maximizing energy savings for the school district.

The school embraces the community scale of the residential neighborhood with a welcoming double-height entry while situating a four-story educational wing on its compact, triangular site. In deference to the neighborhood context, the building "steps back" as it "goes up" – placing the fourth story portion of the building closest to the center of the site and as far away from houses as possible. The building sits on a podium over two levels of structured parking that can accommodate 228 parking spots.

Sited adjacent to a middle school, park, and recreation center, Fleet Elementary School transforms a former parking lot into an educational landscape that improves accessibility, connectivity, and environmental conditions for the benefit of the entire 20-acre site. Despite adding a compact 38,820 SF footprint, no increase in impervious area occurred. The design team facilitated community buy-in and built confidence by ensuring a cohesive park was retained and that no significant loss of green space and no net loss of recreational programming occurred. Traffic, parking, and pedestrian walkways / bikeways were closely studied and designed to provide streamlined transportation options and optimal safety and security. All parking is under the building and integrated stormwater cleansing and retention is provided on-site through best management practices.

The school is infused throughout with light and views to the surrounding landscape. The result is a building that, while located on a dense urban site, feels like a neighborhood school that is befitting of its people and place. **VMDO effectively utilized every inch possible on a rather complex site, addressed safety and security concerns through updated site circulation and a new front entry vestibule, and solved the client's stormwater and parking issues through innovative design solutions.**

A former parking lot is transformed into an educational landscape

Aerial view

Environmental graphics and colors corresponding with world biomes

Movement Center featuring heavy timber structural system

Cardinal Elementary School

Arlington Public Schools — Arlington, Virginia

Field and terraced landscape

Project Overview

Completion
September 2021

Construction Cost
$55,000,000

Scope
110,500 SF
New Construction

Grades + Capacity
Pre-K-5 - 845 students

Client Reference
Mr. Steve Stricker
Senior Project Manager
Arlington Public Schools
(703) 228-7749
steven.stricker@apsva.us

Additional Information
Insert copy

Project Summary

Opened in September 2021 as VMDO's third net zero energy school in Arlington, Cardinal Elementary School sets new standards for design excellence in sustainability, energy performance, and innovative learning environments for Arlington Public Schools. Cardinal Elementary follows in the footsteps of the NZE milestone established by Discovery Elementary and the four-story NZE school precedent established by Fleet Elementary. However, different from these previous projects, Cardinal is actually an addition to the existing Reed School/Westover Library and features a significant renovation scope that optimizes existing building stock to achieve net-zero energy. Building on lessons learned in NZE design and construction, this project features the lowest embodied energy of VMDO's previous NZE projects.

Cardinal Elementary reflects the often-repeated desire among Arlington residents to "build up and not out." A fully accessible walkway stretching around the perimeter of the school includes space for outdoor classrooms alongside new fields and playgrounds that are open to community use outside of school hours. The addition includes school administrative offices, classrooms, a gymnasium, kitchen, cafeteria, and teacher support areas. The renovated areas include new music/art rooms, a library, classrooms, teacher support areas, and other building support spaces.

The design includes a variety of learning spaces that articulate the positive relationships between pedagogy, community engagement, modern architecture, and educational landscape strategies that promote health, accessibility, and collaboration. Specialized learning classrooms and extended learning areas are interwoven throughout the school to provide programmatic flexibility and support all learning needs. The design of the school responds to the existing neighborhood context and will give back to the community in energy savings and improved, shared spaces.

The layout accommodates the need for flexibility as educational methods and practices evolve to allow more opportunities for personalized learning experiences. A variety of space types – classrooms, hubs, team rooms, conference rooms, nooks and crannies, and outdoor classrooms – foster collaboration, interaction, innovation, and invention. Designed as a living lab for sustainable practices, Cardinal Elementary School encourages creativity, curiosity, and joy within an actively engaged community.

1st Grade academic spaces

Dining space

Library

Wayfinding graphics

Broad Rock + Oak Grove-Bellemeade Elementary Prototype

Richmond City Public Schools — Richmond, Virginia

Oak Grove Main Entry

Project Overview

Completion
January 2013

Total Cost
Broad Rock: $ 19,345,001
Oak Grove-Bellemeade:
$16,960,656

Scope
Broad Rock: 90,810 SF
New Construction
Oak Grove-Bellemeade: 90,810 SF
New Construction + Renovation

Grades + Capacity
Pre-K-5: 650 Students Each School

Client Reference
Mr. John Winter
Former Director
Office of Special Projects
City of Richmond
(804) 937-4799
jfwinter2@yahoo.com

Project Summary

VMDO was grateful to participate in the City of Richmond's ambitious "Building a Better Richmond" initiative. The first phase of work included two new elementary schools – Broad Rock and Oak Grove-Bellemeade. The new Broad Rock Elementary School is on an existing campus. The new Oak Grove-Bellemeade Elementary School is on the site of the former Bellemeade Elementary, a larger property several blocks away, and shares its footprint with an existing Community Center whose facilities are utilized for school purposes during the day.

Broad Rock and Oak Grove-Bellemeade Elementary Schools are designed for nearly identical architectural programs. A "kit of parts" approach to the design allowed the architect to employ best practices in designing prototypical components of the schools, while site constraints gave designers opportunities to arrange those components in unique ways. This design approach produced two schools befitting their own neighborhood contexts and identifiable to the children as "their own school – unlike any other." This approach also allowed VMDO to reduce the design time and push an efficient construction schedule to ensure the schools were completed on time and on budget.

These sites contained existing school buildings that remained in session throughout the construction period. Accordingly, the new schools were built on portions of existing campus that were unoccupied. The shape of the existing sites added to the challenge of arranging the schools, playgrounds, bus loop, parking, and service areas in a suitable manner.

VMDO partnered with the Green Infrastructure Center and local volunteer, Bob Argabright, to connect the schools' educational programs to the sites' rich natural landscapes and the James River watershed via nature walks, outdoor classrooms, school gardens, various learning laboratories, and indoor and outdoor educational signage.

Dining Commons

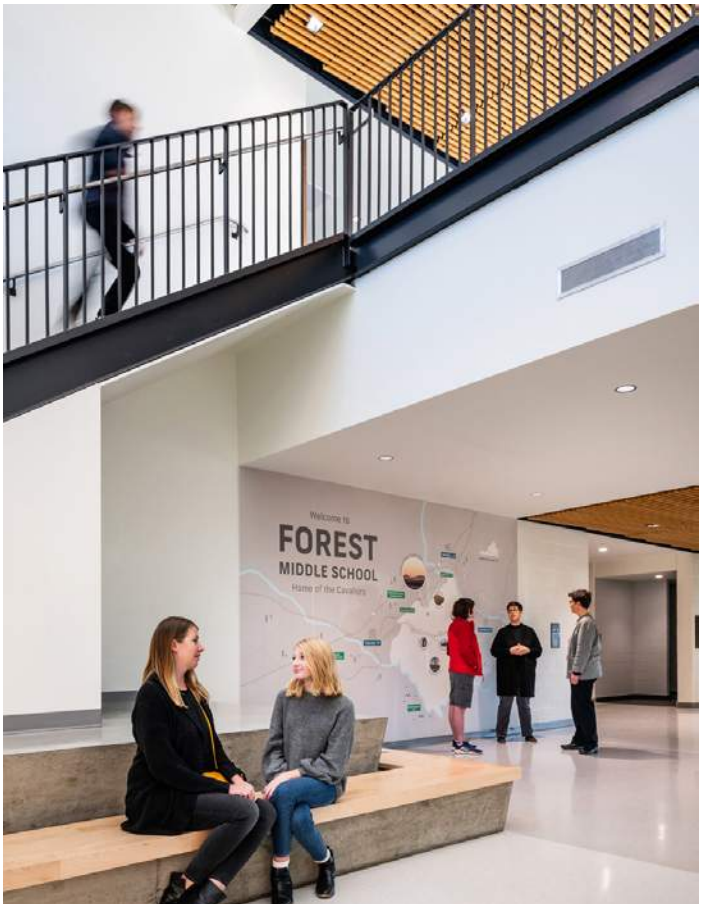
Library

EGD Wayfinding

EGD Wayfinding + Classroom

Forest Middle School Addition + Renovation

Bedford County Public Schools — Forest, Virginia



New Communal Space and Secure Entrance

Project Overview

Completion
August 2020

Construction Cost
$ 22,134,786

Scope
75,000 SF, Addition
99,000 SF, Renovation

Grades + Capacity
6-8 - 1,200 students

Client Reference
Mr. Mac Duis
Chief Operating Officer
Bedford County Public Schools
(540) 580-9130
mduis@bedford.k12.va.us

Project Summary

The Forest Middle School renovation and expansion increases capacity to 1,200 students with a new addition featuring a new secure entrance, competition gymnasium, additional arts and media spaces, a courtyard, and, most importantly, new transformational learning environments for 6th, 7th, and 8th graders.

The much anticipated addition remedies the 25-year reliance on temporary mobile classroom units, which have long posed environmental, operational, and safety concerns. The new addition enhances outdoor space with a central, sheltered courtyard that offers students and teachers an enclosed, landscaped environment for a wide range of learning activities.

Within the expanded school, learning is made visible – engaging students and enhancing a sense of community among faculty, staff, and students. Differently-sized learning studios, seminar spaces, huddle rooms, and study booths complement classrooms in the addition and support student passions, while also empowering CTE and STEM project work with places that inspire creation and collaboration. In the existing building, a reinvigorated central spine clarifies circulation and reinforces Bedford County's "focus on learners" by transforming scattered classrooms into a learner-centered central commons.

Extended learning spaces and flexible furniture support a variety of teaching methods and work styles. These environments encourage students to bring technology and furniture together in intuitive ways, fostering problem-solving and risk-taking in a setting that is finely tuned for collaboration.

The project also includes renovating the existing gym to accommodate the school's band program; renovating the current library; and reconfiguring the exterior roads surrounding the school to allow for separate paths for buses and cars. The new South Addition also preserves the expansive front lawn and builds upon relatively flat site without sacrificing parking.

Owner's representation on this project was provided by SKANSKA with an on-site Clerk of the Works. This service was an invaluable complement to the design team, offering us full-time "eyes and ears on the site." In addition, SKANSKA facilitated an "Owner Direct Purchase" program for our client, taking advantage of the school division's tax-exempt status and saving thousands of dollars in the process.

Second Floor Bridge Connection

Pop-out into Gymnasium

Arts Classrooms with Connection to Enclosed Courtyard

Transparent Connection between Classrooms and Corridors

Buckingham Primary + Elementary Schools

Buckingham County Public Schools — Dillwyn, Virginia

Break-out Group Learning Spaces

Project Overview

Completion
2012

Construction Cost
$18,570,000

Scope
134,015 SF Renovations & Addition

Grades + Capacity
K-5
Primary School: 500
Elementary School: 500

Client Reference
Cecil C. Snead, II, Ed.D, (Former Superintendent of Schools)
(540) 661-4550
csnead@ocss-va.org

Project Summary

In 2009, the Buckingham County school community decided to do something different about the future of their youngest learners: prioritize health and design to deliver a cutting-edge, holistic learning environment for students and teachers. As a result, the former middle and high school buildings, built in 1954 and 1962 respectively, were designed from a holistic perspective that includes the dining experience as an educational opportunity, the school cafeteria, kitchen, and servery that have been reconsidered as an important educational experience while retaining key food service functions.

The existing school campus was re-designed as a 14-acre sustainable landscape that promotes active and diverse opportunities for play, exercise, and learning to serve 1,000 children in grades K-5. The natural setting of the surrounding pine and oak forest habitat, watershed, and microclimates are key existing environments that influenced the design of the new school. The project committee and design team worked collaboratively to create a total learning environment in order to support learning both inside and outside the classroom and engage students in their surrounding environments. Enhanced programming includes a teaching kitchen, innovative food and nutritional displays, a food lab, dehydrating food composter, ample natural daylight, flexible seating arrangements, and outdoor student gardens.

Each grade level enjoys age-appropriate outdoor gardens and play terraces, which encourage children to re-connect and spend time in their natural surroundings. Inside the schools, in addition to core classrooms, each grade level has small group learning spaces that transform circulation pathways into child-centric "learning streets." These spaces are intimately scaled with soft seating and fun colors that communicate both collaborative and shared learning experiences.

In addition to school designers, the project team consisted of public health scientists from the University of Virginia and University of Nebraska that, collectively, co-authored healthy eating and physical activity design guidelines (HEDG and PADG) as an antidote to the childhood obesity epidemic (published by the CDC in 2012 and PLOS ONE in 2015). These replicable design guidelines provide research-based strategies for school planners, architects, and educators to use in promoting healthy eating and physical activity as school-based obesity prevention.

Dining Commons

Media Lab

Kitchen Lab

Multi-Purpose Outdoor Learning Lab / Classroom

TIMMONS GROUP
ENGINEERING | DESIGN | TECHNOLOGY

K-12 EDUCATION QUALIFICATIONS

K-12 EXPERIENCE

Timmons Group's extensive experience with contracts for school systems and other municipal clients allows them to clearly understand potential pitfalls up-front and create a plan for mitigating them. Their work approach incorporates all prior planning, educational specifications, site studies, codes and regulations and financial parameters into written and graphic documents that form the basis for constructing your envisioned facility or site improvement.

Timmons Group has an incredibly talented education team with sound knowledge of AIA standards and design approaches, quite uncommon in the civil engineering industry. Because of this comprehension, their clients (both school administrators and architects) find their exceptionally polished design practices to be a welcomed benefit in communicating between all parties and achieving the school's ultimate vision.

Greer Elementary School

Glen Allen High School

Northside Elementary School

Greer Elementary School

Virginia K-12 Experience

NEW ELEMENTARY SCHOOLS

- Enon Elementary School Replacement, Chesterfield County, VA
- Beulah Elementary School Replacement, Chesterfield County, VA
- Matoaca Elementary School Replacement, Chesterfield County, VA
- Moseley Elementary School, Chesterfield County, VA
- Crestwood Elementary School Replacement, Chesterfield County, VA
- Baker-Butler Elementary School, Albemarle County, VA
- Elizabeth Scott Elementary School, Chesterfield County, VA
- Winterpock Elementary School, Chesterfield County, VA
- Yowell Elementary School, Culpeper County, VA
- Old Hundred Elementary School, Chesterfield County, VA
- Reams Elementary School, Chesterfield County, VA
- Ettrick Elementary School, Chesterfield County, VA
- Harrowgate Elementary School, Chesterfield County, VA
- Ruckersville Elementary School, Greene County, VA
- Cumberland Elementary School, Cumberland County, VA
- Sutherland Elementary School, Dinwiddie County, VA
- Tappahannock Elementary School, Essex County, VA
- Lafayette Upper Elementary School (PPEA Project), City of Fredericksburg, VA
- Cool Springs Elementary School, Hanover County, VA
- Pole Green Elementary School, Hanover County, VA
- Kersey Creek Elementary School, Hanover County, VA
- Laurel Meadow Elementary School, Hanover County, VA
- Colonial Trail Elementary School, Henrico County, VA
- Echo Lake Elementary School, Henrico County, VA
- Greenwood Elementary School, Henrico County, VA
- Rivers Edge Elementary School, Henrico County, VA
- Twin Hickory Elementary School, Henrico County, VA
- Kaechele Elementary School, Henrico County, VA
- Harvey Elementary School, Henrico County, VA
- Patrick Copeland Elementary School, City of Hopewell, VA
- Sealston Elementary School, King George County, VA

K-12 EXPERIENCE

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Greer Elementary School

Glen Allen High School

Northside Elementary School

Greer Elementary School

Virginia K-12 Experience

NEW ELEMENTARY SCHOOLS

- Enon Elementary School Replacement, Chesterfield County, VA
- Beulah Elementary School Replacement, Chesterfield County, VA
- Matoaca Elementary School Replacement, Chesterfield County, VA
- Moseley Elementary School, Chesterfield County, VA
- Crestwood Elementary School Replacement, Chesterfield County, VA
- Baker-Butler Elementary School, Albemarle County, VA
- Elizabeth Scott Elementary School, Chesterfield County, VA
- Winterpock Elementary School, Chesterfield County, VA
- Yowell Elementary School, Culpeper County, VA
- Old Hundred Elementary School, Chesterfield County, VA
- Reams Elementary School, Chesterfield County, VA
- Ettrick Elementary School, Chesterfield County, VA
- Harrowgate Elementary School, Chesterfield County, VA
- Ruckersville Elementary School, Greene County, VA
- Cumberland Elementary School, Cumberland County, VA
- Sutherland Elementary School, Dinwiddie County, VA
- Tappahannock Elementary School, Essex County, VA
- Lafayette Upper Elementary School (PPEA Project), City of Fredericksburg, VA
- Cool Springs Elementary School, Hanover County, VA
- Pole Green Elementary School, Hanover County, VA
- Kersey Creek Elementary School, Hanover County, VA
- Laurel Meadow Elementary School, Hanover County, VA
- Colonial Trail Elementary School, Henrico County, VA
- Echo Lake Elementary School, Henrico County, VA
- Greenwood Elementary School, Henrico County, VA
- Rivers Edge Elementary School, Henrico County, VA
- Twin Hickory Elementary School, Henrico County, VA
- Kaechele Elementary School, Henrico County, VA
- Harvey Elementary School, Henrico County, VA
- Patrick Copeland Elementary School, City of Hopewell, VA
- Sealston Elementary School, King George County, VA

K-12 EXPERIENCE

- Belmont Greene Elementary School, Loudoun County, VA
- Belmont Station Elementary School, Loudoun County, VA
- Countryside Elementary School, Loudoun County, VA
- Forest Grove Elementary School, Loudoun County, VA
- Frances Hazel Reid Elementary School, Loudoun County, VA
- Legacy Elementary School, Loudoun County, VA
- Mountain View Elementary School, Loudoun County, VA
- Newton-Lee Elementary School, Loudoun County, VA
- New Arcola Elementary School, Loudoun County, VA
- Pinebrook Elementary School, Loudoun County, VA
- Rosa Lee Carter Elementary School, Loudoun County, VA
- Sycolin Creek Elementary School, Loudoun County, VA
- Middlesex Elementary School, Middlesex County, VA
- South Hill Elementary School, Mecklenburg County, VA
- Discovery STEM Academy, Newport News, VA
- New Kent Elementary School, New Kent County, VA
- North Elementary School, Prince George County, VA
- Walton Elementary School Replacement, Prince George County, VA
- George Mason Elementary School Replacement, Richmond, VA
- E.S.H Greene Elementary School Replacement, Richmond, VA
- River Bend Elementary School, Rockingham County, VA
- Harrison Road Elementary School, Spotsylvania County, VA
- Wilderness Elementary School, Spotsylvania County, VA
- Rocky Run Elementary School, Stafford County, VA
- Anne Moncure Elementary School Replacement, Stafford County, VA

Western Albemarle High School

Middlesex Elementary School

Falling Creek Middle School

Buckingham Middle School

NEW MIDDLE SCHOOLS

- Liberty Middle School, Bedford County, VA
- Buckingham Middle School, Buckingham County, VA
- Manchester Middle School Replacement, Chesterfield County, VA
- Elizabeth Davis Middle School, Chesterfield County, VA
- Tomahawk Creek Middle School, Chesterfield County, VA
- G.W. Carver Middle School, Chesterfield County, VA
- Goochland Middle/High School, Goochland County, VA
- Oak Knoll Middle School, Hanover County, VA
- Elko Middle School, Henrico County, VA
- Hungary Creek Middle School, Henrico County, VA
- L. Douglas Wilder Middle School, Henrico County, VA
- Pocahontas Middle School, Henrico County, VA
- Holman Middle School, Henrico County, VA
- Sandusky Middle School, City of Lynchburg, VA
- Belmont Ridge Middle School, Loudoun County, VA
- Mercer Middle School, Loudoun County, VA
- Rosa Lee Carter Middle School, Loudoun County, VA

K-12 EXPERIENCE

- Smart's Mill Middle School, Loudoun County, VA
- Stone Hill Middle School, Loudoun County, VA
- Stone Ridge Middle School, Loudoun County, VA
- Ni River Middle School, Spotsylvania County, VA
- Post Oak Middle School, Spotsylvania County, VA
- Powhatan Middle School, Powhatan County, VA

NEW HIGH SCHOOLS

- Huguenot High School Replacement, City of Richmond, VA
- Monticello High School, Albemarle County, VA
- Cosby High School (PPEA Project), Chesterfield County, VA
- Clover Hill High School Replacement, Chesterfield County, VA
- Matoaca High School, Chesterfield County, VA
- Eastern View High School, Culpeper County, VA
- Cumberland Middle/High School (PPEA Project), Cumberland County, VA
- Dinwiddie High School, Dinwiddie County, VA
- Kettle Run High School, Fauquier County, VA
- New James Monroe High School (PPEA Project), City of Fredericksburg, VA
- Fluvanna High School Replacement, Fluvanna County, VA
- Goochland High School, Goochland County, VA
- Hanover High School, Hanover County, VA
- Glen Allen High School, Henrico County, VA
- Deep Run High School, Henrico County, VA
- Henrico Ed Tech Center, Henrico County, VA
- Highland Springs High School Replacement, Henrico County, VA
- J.R. Tucker High School Replacement, Henrico County, VA
- King George High School, King George County, VA
- Louisa High School, Louisa VA
- Woodbridge High School, Loudoun County, VA
- Briar Woods High School, Loudoun County, VA
- Dominion High School, Loudoun County, VA
- Freedom High School, Loudoun County, VA
- O'Conner High School, Loudoun County, VA
- Heritage High School Replacement, Lynchburg, VA
- New Combined Middle School & High School (PPEA Project), Northumberland County, VA
- Luray High School, Page County, VA
- Page High School, Page County, VA
- Powhatan High School, Powhatan County, VA
- Massaponax High School, Spotsylvania County, VA
- Stafford High School Replacement, Stafford, VA

Greer Elementary School

Chapel Hill Elementary School

K-12 EXPERIENCE

VIRGINIA K-12 SCHOOLS - ADDITIONS/RENOVATIONS

Albemarle County, VA
Mountain View Elementary School
Greer Elementary School
Red Hill Elementary School
Scottsville Elementary School
Woodbrook Elementary School
Agnor Hurt Elementary School
Journey Middle School
Burley Middle School
Henley Middle School
Monticello High School
Western Albemarle High School
Albemarle High School

Bedford County, VA
Forest Middle School

Chesterfield County, VA
Bellwood Elementary School
Bon Air Elementary School
Chalkley Elementary School
Curtis Elementary School
Falling Creek Elementary School
Grange Hall Elementary School
Greenfield Elementary School
O.B. Gates Elementary School
J.B. Watkins Elementary School
Bailey Bridge Middle School
Chester Middle School
Falling Creek Middle School
Midlothian Middle School
Swift Creek Middle School
Salem Church Middle School
Robious Middle School
L.C. Bird High School
Manchester High School Specialty Ctr.
Monacan High School
Midlothian High School
Matoaca Middle School
Providence Middle School

City of Colonial Heights, VA
Tussing Elementary School
Lakeview Elementary School
North Elementary School

Essex County, VA
Essex Intermediate School
Tappahannock Elementary School

Fauquier County, VA
Cedar Lee Middle School

Goochland County, VA
Randolph Elementary School
Byrd Elementary School

Greene County, VA
William Monroe Middle School
William Monroe High School

Hanover County, VA
Gandy Elementary School
Henry Clay Elementary School
South Anna Elementary School
Stonewall Jackson Middle School
Washington Henry Middle School
Patrick Henry High School
Atlee High School

Henrico County, VA
Pemberton Elementary School
Maybeury Elementary School
Sandston Elementary School
Tuckahoe Elementary School
Donahoe Elementary School
Glen Lea Elementary School
Varina Elementary School
Johnson Elementary School
Moody Middle School
Tuckahoe Middle School
Tucker High School Field House
Hermitage High School
Highland Springs High School
Henrico High School
Glen Allen Elementary School

City of Hopewell, VA
Carter G. Woodson Middle School

Lancaster County, VA
Lancaster Elementary School

City of Lynchburg, VA
Sandusky Middle School

Loudoun County, VA
Blue Ridge Middle School
Round Hill Elementary School
Seldens Landing Elementary School
Seneca Ridge Middle School
Simpson Middle School
Sterling Park Middle School

Louisa County, VA
Thomas Jefferson Elementary School
Jouett Elementary School

City of Petersburg, VA
A.P Hill Elementary School
J.E.B. Stuart Elementary School
Robert E. Lee Elementary School
Walnut Hill Elementary School
Vernon Johns Middle School

Middlesex County, VA
Middlesex County High School

Orange County, VA
Gordon Barbour Elementary School

Prince George County, VA
South Elementary School
Harrison Elementary School
N.B. Clements Middle School
Prince George High School

Prince William County, VA
Bristow Run Elementary School
Signal Hill Elementary School
Braxton Middle School
Old Bridge Elementary School
Neabsco Elementary School
Leesylvania Elementary School
Minnieville Elementary School
Mountain View Elementary School

K-12 EXPERIENCE

City of Richmond, VA
Armstrong High School
Broad Rock Elementary School
George Wythe High School
Greene Elementary School
J.L. Francis Elementary School
M.J. Jones Elementary School
Reid Elementary School
Whitcomb Court Elementary School

Spotsylvania County, VA
Battlefield Elementary School
Berkeley Elementary School
Chancellor Elementary School
Courtland Elementary School
Lee Hill Elementary School
Salem Elementary School
Smith Station Elementary School
Spotswood Elementary School
Wilderness Elementary School
Courtland High School

Stafford County, VA
Garrisonville Elementary School
Ferry Farms Elementary School
Sterling Park Middle School
Mountain View High School
Colonial Forge High School
Brooke Point High School

VIRGINIA K-12 PRIVATE SCHOOLS
St. Anne's-Belfield School Renovation, City of Charlottesville, VA
Richmond Christian School Improvements
Woodberry Forest School, Madison County, VA
International School, City of Charlottesville, VA
Collegiate School Improvements
The Steward School, City of Richmond, VA
St. Michaels School, Annandale, VA
Charlottesville Day School Music and Fitness Center and Landscape
St. Catherine's, City of Richmond, VA
Highland School, Warrenton, VA

Suffolk Public Schools
Phase I - Suffolk Public Schools Parking Lot and Site Pavement Rehabilitation, (Two High School And Two Middle School Sites)
Phase II – Four Elementary Schools Pavement Replacement
Track Resurfacing – All Three High Schools
Lakeland High School Artificial Turf Athletic Field Replacement
Nansemond River High School Artificial Turf Athletic Field

Norfolk Public Schools
Booker T Washington High School Site Assessment
Maury High School Condition Assessment and Replacement Planning

Chesapeake Public Schools
Western Branch High School Track Replacement
Deep Creek Elementary School - Drainage Improvements and Courtyard Design
Chesapeake Public Schools Track Assessments
Western Branch Primary School Bus Parking And Pavement Repair
Crestwood Middle School Track Replacement
Chesapeake Schools Administration Bldg, 932 Professional Place
Chesapeake Schools Admin Bldg, Kristina Way
Butts Road Intermediate School Pavement Replacement

Virginia Beach City Public Schools
Salem and First Colonial High Schools Track and Artificial Turf Replacement
Plaza Annex Parking Expansion
Plaza Annex Site Addition, Phase II
Kempsville High School Turf and Track Replacement
First Colonial High School Turf and Track Replacement
Salem High School Turf and Track Replacement
Ocean Lakes High School Turf Field Replacement

Gloucester County Public Schools
Abingdon Elementary School Addition/Renovation
Farmwell Station Middle School Addition/Renovation
Gloucester High School Feasibility Study

Williamsburg-James City County Public Schools
Matoaka Elementary School
Warhill High School

Newport News Public Schools
Discovery Stem Academy
Marshall Early Childhood Center Additions/Renovations
System Wide Facility Study
Hilton and Sedgefield Elementary Schools - FEMA Elevation Certificates
Sedgefield Elementary School - Green School Grounds

Surry County Pubilc Schools
Surry High School Addition/Renovation

York County Public Schools
York Elementary School Addition/Renovation
York Elementary School Feasibility Study

CMTA

A LEGENCE Company

The National Leader in Energy Efficiency K-12

Discovery Elementary School Arlington, Virginia

CMTA Overview

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

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

Our consulting engineering expertise includes the following services:

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

By the Numbers

- 647 Employees
- 31 Offices Nationwide
- 162 PEs
- 9 RCDDs
- 6 Certified GeoExchange Designers
- 26 Certified Energy Managers
- 22 Commissioning Agents
- 105 LEED APs
- 19 WELL APs
- 2 AVIXA Certified Technology Specialists
- Licensed in 49 States, D.C. and Ontario, Canada

Years in Business: 54

2021 ENR TOP 500

MEP GIANTS 2021

Commissioning GIANTS 2021

Local K-12 Experience

Alexandria City Public Schools

Cora Kelly & George Mason
- 37,600 SF New Facility

Douglas MacArthur Elementary
- 140,000 SF New Facility
- Zero Energy Targeted

Minnie Howard High School
- 312,000 SF New Facility
- Zero Energy Targeted
- LEED Gold Targeted

Ferdinand T Day School
- 6,300 SF Reno/Add
- LEED Silver

Arlington Public Schools

Randolph Elementary School
- 120,000 SF New Facility
- HVAC Modernization

Cardinal Elementary School
- 130,190 Reno/Add
- Zero Energy Targeted
- LEED Silver Targeted

Alice West Fleet Elementary School
- 110,000 SF New Facility
- Zero Energy
- LEED Gold

Discovery Elementary School
- 98,000 SF New Facility
- Zero Energy
- LEED Gold

Education Center
- 35,927 SF New Facility
- LEED Silver Targeted

DC Public Schools

Benjamen Banneker Academic High School
- 174,539 SF New Facility
- Zero Energy Targeted
- LEED Platinum Targeted
- WELL Targeted

Bard High School
- 115,000 SF Modernization and Addition
- Zero Energy Targeted
- LEED Targeted
- WELL Targeted

Smothers Elementary School
- 72,000 SF Modernization
- Zero Energy Targeted
- LEED Platinum Targeted
- WELL Gold Targeted

Eaton Elementary School
- 52,560 SF Modernization
- LEED Gold Targeted

Ferebee High School KIPP
- 111,557 SF New Facility
- LEED Gold Targeted

John Lewis Elementary
- 88,588 SF New Facility
- Zero Energy Targeted
- LEED Platinum Targeted
- WELL Gold Targeted

MC Terrell Kipp DC Elementary
- 27,880 SF Addition
- LEED Gold Targeted

Fairfax County Public Schools

Mason Crest Elementary School

Georgetown
- 120,726 SF

Bren Mar Park Elementary School
- 90,000 SF Renovation

Quander Road School Office HVAC Renovation
- 3,000 SF

Frederick County Public School

Jordan Springs Elementary
- 84,375 SF New Facility

Harrisonburg City Public Schools

Bluestone Elementary
- 103,000 SF New Facility
- NBI- Zero Energy Verified

Elon Rhodes Early Learning Center
- 16,313 SF New Facility
- LEED Gold

Loudoun County Public Schools

Hovatter Elementary School
- 110,400 SF New Facility
- ENERGY STAR

Prince William County Public Schools

Occoquan New Elementary School
- 132,000 SF New Facility
- Zero Energy Targeted

SPRINGPOINT STRUCTURAL

FOX + ASSOCIATES

COMPANY PROFILE

Springpoint Structural was founded in 2018, growing out of Keast & Hood's many years of practice in Virginia. Springpoint is a Virginia SWAM-certified business, qualifying as both Small and Micro. Springpoint has worked at historic sites such as Monticello and the University of Virginia, Mount Vernon, Violet Bank, Gunston Hall, and Fort Monroe. The firm also has ongoing or completed new construction and renovation projects at Virginia Military Institute, Virginia Tech, William and Mary, Morson's Row and numerous project sites around Virginia.

In 2021 Springpoint acquired and joined forces with Fox + Associates, a structural engineering firm established in 1992 and located in Richmond, Virginia, with multiple decades of experience delivering creative structural solutions to owners and architects. The bulk of F+A's experience falls into the K-12 and higher education markets, with significant projects for Liberty University, Virginia Commonwealth University, Washington & Lee University, and the University of Virginia. F+A has also provided structural design for several rollercoasters at Kings Dominion, including the world's first inverted linear-induction motor-launched coaster, the Volcano Blast, and the Intimidator 305, the tallest and fastest gravity-driven steel coaster on the East Coast. F+A is a Virginia SWAM-certified business qualifying as both Small and Micro.

A full merger of the two firms is in progress for 2022, with the staff already working closely together on new and existing projects. The combined team includes five licensed engineers, two structural EIT's, and three structural designer / Revit technicians as well as an office administrator.

The Springpoint / Fox team provides a unique approach to structural engineering that has been developed throughout our staff's careers in and around the construction industry. With significant experience in structural engineering and design as well as stints in construction planning and management, we deliver creative structural solutions that meet the needs of the wide variety of perspectives involved in a project. Beyond structural engineering rigor, we strive to provide a work product and attitude that can be described as creative, enthusiastic, innovative, personal, and committed.

ADDITIONAL PROJECT RELATED EXPERIENCE

Lancaster County Middle School
Kilmarnock, Virginia
2023 $19,271,000
Convert existing middle school into an elementary school, renovate library and courtyard, addition of K-6 playground areas and perimeter bus loop. Total sf of existing building and renovation areas is 107,000.

Douglas MacArthur Elementary School
Alexandria, Virginia
2023 $79,000,000
New elementary school, 115,000 sf for 850 students on the existing Douglas MacArthur Elementary School site. Below the school's footprint is a 45,000 sf parking garage with around 95 parking spaces.

Fleet Elementary School (Arlington Public Schools)
Arlington, Virginia
2019 $40,500,000
New four-story, 725 seat, 109,988 sf, K-5 school, and 110,000 sf parking garage below grade.

Jefferson-Houston PreK-8
Alexandria, Virginia
2014 $36,000,000
A new three-story, 127,500 sf, steel-framed, school which replaced the existing K-8th school. This includes a full-size gym and a roof-top astronomy observation deck. 600-800 students. LEED Gold.

Discovery Elementary School
Arlington, Virginia
2015 $36,000,000
New two-story 98,000 sf elementary school designed to be "Net Zero" energy usage. To help achieve this energy goal the exterior walls are load bearing Insulated Concrete ….Forms (ICF) supporting a steel framed floor and roof. Photovoltaic (PV) panels are installed over the entire roof to help achieve "Net Zero" energy usage.

Manassas Park Elementary School & Pre-K
Manassas Park , Virginia
2009 $30,000,000
10,500 sf single-story, pre-kindergarten building and 121,000 sf three-story, steel-framed building with classrooms, administrative, media, cafeteria, gymnasium. Concrete deck on steel bar joists, braced frame extensive reinforced concrete retaining walls, conventional foundations, storm water management structures (Certified LEED Gold (NC 2.2) & COTE Top Ten Award)

Bluestone Elementary School
Harrisonburg, Virginia
2017 $25,000,000
A new 103,000 sf 750 student elementary school on Garbers Church Road. The building sits on a sloping site so the smaller lower floor of three is pocketed into the hill with full height concrete retaining wall along the hillside. The main first floor is the full floor plate size with half the floor being slab-on-grade and the other half being a suspended composite slab over metal deck supported by a steel frame. The third floor is also a composite slab. The roof system over most of the school is metal deck supported by open-web bar joists. The roof framing exception occurs over the dining area which is an assembly roof area so the framing is wide flange beams. The lateral framing system is a combination of concrete/CMU shear walls and steel concentrically braced HSS lateral frames.

Broad Rock Elementary School
Richmond, Virginia
2013 $21,000,000
New elementary school accommodating 650 students. 93,600 sf. Achieved LEED Gold.

Oak Grove Elementary School
Richmond, Virginia
2013 $21,000,000
New elementary school accommodating 650 students. 90,000 sf of new construction, 25,000 sf in renovations. Achieved LEED Gold.

Poquoson Elementary School
Poquoson, Virginia
2008 $18,000,000
New 82,000 sf elementary school with gymnasium, cafeteria, and media center. Steel frame on bearing masonry with butterfly roof over gymnasium in wood and steel. (Certified LEED Gold) (New Construction 2.2)

Brownsville Elementary School
Crozet, Virginia
2009 $6,706,000
32,000 sf single-story, steel frame addition consisting of two classroom wings, café addition and a pre-engineered steel building, gymnasium with a mechanical mezzanine. First LEED Certified GOLD School in Albemarle County.

Harrisonburg Early Education Center
Harrisonburg, Virginia
2017 $6,500,000
A new 16,320 sf 2 story, Pre-K school located on Linda Lane at the same site as Smithland ES and Skyline MS. The relatively flat site allowed for simple conventional strip and spread footings and as slab on grade foundation. The structure is a steel frame supporting a composite steel floor system and an open-web bar joist roof system.

1 | QUALIFICATIONS & EXPERIENCE

MEP Design-Assist

As two of the Commonwealth's leading providers of MEP contracting services, Hopkins | Lacy and Comfort Systems USA MidAtlantic will provide Design-Assist services on the Clarskville Elementary School project. Given that the mechanical, electrical and plumbing ("MEP") work constitutes a large portion of the overall scope/cost, involving these exceptional MEP firms in the preconstruction process will have a significant, positive impact on the cost, the schedule and coordination aspects of the project. It will also allow for the opportunity for the early release of trade packages, to pre-order materials with long lead times, and the seamless transition from preconstruction to construction. Hopkins | Lacy and Comfort Systems will work collaboratively with Branch | VMDO to provide crucial MEP systems input, including alternative options analysis, systems coordination, scheduling and life-cycle cost feedback among many others. Hopkins | Lacy and Comfort Systems will provide the Branch team with the ability to most efficiently plan and coordinate systems that will provide the best value for MCPS by offering our team added control over the critical cost and schedule components of the MEP work.

GJ HOPKINS | LACY
BRANCH MEP COMPANIES

Howard Woodford
Preconstruction Manager
Hopkins | Lacy
3635 Peters Creek Road
Roanoke, VA 24019
540-982-1873

COMFORT SYSTEMS USA

J.R. Griffin
President & CEO
Comfort Systems USA MidAtlantic
1057 Bill Tuck Highway
South Boston, VA 24592
434-572-6989

BRANCH BUILDS

VMDO

BRANCH | VMDO
MECKLENBURG COUNTY PUBLIC SCHOOLS
CLARKSVILLE ELEMENTARY SCHOOL
ORGANIZATIONAL CHART

CATHERINE UNDERWOOD
DESIGN-BUILD PROJECT MANAGER

KENNETH THACKER
DESIGN PRINCIPAL IN CHARGE

DESIGN-ASSIST SERVICES
GJ HOPKINS | LACY BRANCH MEP COMPANIES
COMFORT SYSTEMS USA

CATHERINE UNDERWOOD
DESIGN-BUILD PROJECT MANAGER
Team Leadership | Financial Management
Schedule Adherence | Meet MCPS Goals for Success

VMDO
ARCHITECTURAL DESIGN

ROB WINSTEAD
EDUCATIONAL PLANNER

KELLY CALLAHAN
PROJECT ARCHITECT

TIMMONS GROUP
CIVIL ENGINEERING

STEVE RAUGH
SENIOR CIVIL ENGINEER

GREG NELSON
PROJECT MANAGER / CIVIL ENGINEER

CRAIG KOTARSKI
SENIOR CIVIL ENGINEER / GROUP LEADER

CMTA
MEP ENGINEERING / SECURITY / AV & IT

LEE HARRELSON
PRINCIPAL-IN-CHARGE

JONATHAN STEWART
PROJECT MANAGER / SENIOR ELECTRICAL ENGINEER

DREW ROBERTS
SENIOR MECHANICAL ENGINEER

BRAD BITTMAN
PLUMBING ENGINEER

BRICE WATSON
ZERO ENERGY ENGINEER / QA/QC

SPRINGPOINT STRUCTURAL
STRUCTURAL ENGINEERING

JOHN B. IRELAND, III
STRUCTURAL PROJECT MANAGER

SALVATORE DIPIETRO
STRUCTURAL PROJECT MANAGER

BRANCH BUILDS
PRECONSTRUCTION TEAM

JAIME ENGLISH
PRECONSTRUCTION MANAGER
Budget / Estimate Review & Oversight
Value Analysis / Value Engineering
SWaM Participation
Subcontractor Qualification
Subcontractor Selection / Award
Subcontractor Scope Development
GMP Development

TONY BROWN
V.P. ESTIMATING
Budget / Estimate Review & Oversight
Value Analysis / Value Engineering
SWaM Participation
Subcontractor Qualification
Subcontractor Selection / Award
Subcontractor Scope Development
GMP Development

PRECONSTRUCTION SUPPORT STAFF

BRANCH BUILDS
CONSTRUCTION TEAM

BRYAN UNDERWOOD
SENIOR PROJECT MANAGER
Team Oversight | Owner Project Meetings
Design Integration | GMP Management Reporting
Schedule Implementation | Submittal Review
RFI Processing | Quality Assurance
Safety | Monthly Project Reporting
Subcontractor Progress Meetings
LEED Compliance

JIMMY KENYON
SENIOR SUPERINTENDENT
GMP Management | Design Integration
Schedule Implementation
LEED Compliance
Submittal Review / Coordination | Site Logistics
Coordination with MCPS | Quality Assurance
Safety | Owner Project Mtgs
Subcontractor Progress Mtgs
Daily Construction Activity Mgmt
LEAN Team Centered Planning
Project Closeout

CONSTRUCTION SUPPORT STAFF

EDUCATION

MS, Biological Systems Engineering | 2000
Virginia Tech, Blacksburg, Virginia

BS, Biological Systems Engineering | 1998
Virginia Tech, Blacksburg, Virginia

The Management Institute | 2003
Roanoke College, Salem, Virginia

Leadership Roanoke Valley | 2017

CERTIFICATION

LEED, AP Certification | 2009

22 YEARS OF EXPERIENCE

OTHER PROJECT EXPERIENCE

VWCC New STEM Building

Roanoke Higher Education Center

Frederick County Middle School

Mooresville High School

Stanley Middle School

Frederick Douglass Elementary School

Franklinton High School

Douglas Freeman High School Reno/Addts

Highland Springs High School

Meadowbrook High School

G.H. Moody Middle School

Virginia Tech CRC Integrated Life Sciences Building

Emory & Henry College
Woodrow W. McGlothlin Center for the Arts

Washington & Lee University, Center for Global Learning

Pulaski County Middle School

Virginia Tech CRC RB1901

Virginia Tech Rector Field House Improvements

Virginia Tech CRC Knowledge Works I & II

Virginia Tech New Residence Hall at Career Services

Virginia Tech Special Purpose Housing

VMI Military South Institute Hill Parking Lot

VMI Military & Leadership Field Training Grounds

Tecton Products, Inc.

Emory & Henry College of Health Sciences

Virginia Tech Infectuous Disease Research Facility

VMI Science Building Renovation

CATHERINE UNDERWOOD, LEED AP

DESIGN-BUILD PROJECT MANAGER

Catherine Underwood joined Branch Builds in May 2000 after completing her master's degree at Virginia Tech and began her employment as an Estimator. She has worked as a Project Manager and then as a Project Executive where her organizational and problem-solving skills have proven invaluable in bringing projects to successful completion. She has led a variety of projects over her long career using different procurement methods including CM@Risk, Design/Build (including PPEA) and competitive bid. Catherine has successfully managed numerous highly visible, large-magnitude projects ranging in value up to $107.5 million. She has earned an outstanding reputation for establishing true partnerships with her clients by ensuring that client objectives drive all of Branch's efforts. Having demonstrated over two decades of dedicated client service, analytical expertise, operations leadership, solutions-oriented collaboration and high character, Catherine was recently promoted to President. As President, Catherine is responsible for the successful management and performance of Branch Builds' four regional offices and maintains executive-level team leadership on select Branch K-12 projects, which is Cathy's forte and passion.

HIGHLIGHTED PROJECT EXPERIENCE

MONTGOMERY COUNTY PUBLIC SCHOOLS 3-SCHOOL PPEA | MONTGOMERY COUNTY, VIRGINIA

Montgomery County Public Schools
200 Junkin Street
Christiansburg, VA 24073
Connie Froggatt | 540-818-9340

SHW (Blacksburg HS)
Bill Bradley | 434-295-8200
RRMM (Auburn MS & HS)
Ben Motley | 540-344-1212

This $107.5 million PPEA design-build project was a complex, multi-faceted undertaking that involved the design and construction management of three separate schools for Montgomery County Public Schools. The entire scope of work was procured under a single design-build contract. Blacksburg High School was a new 3-story, 300,000sf high school, Auburn High School was a new 175,000sf high school and Auburn Middle School involved the comprehensive renovation of the old 120,000sf Auburn High School into the new middle school. The project required extensive preconstruction planning and due to extreme time constraints and the vast site development involved, both of the high school projects were constructed on fast-track schedules with partial Guaranteed Maximum Pricing (GMP) breakouts to facilitate early site grading, foundation and structural steel packages.

RIDGEVIEW COMBINED HIGH SCHOOL & MIDDLE SCHOOL | CLINTWOOD, VIRGINIA

Dickenson County School Board
309 Volunteer Avenue
Clintwood, VA 24228
Haydee Robinson | 276-926-4643

Perkins + Will
1315 Peachtree Streeet, NE
Atlanta, GA 30309
John Poelker | 404-443-7450

Branch was the successful low bidder on the new $59 million, 285,000sf Ridgeview High School, Middle School, and Career Center project in Clintwood, Virginia. The primary structure contained the high school, middle school, auditorium, and various athletic and arts program spaces, while an additional free standing structure houses the career education programs. The Ridgeview school consolidates the former Clintwood, Ervinton, and Haysi High Schools and create a new middle school for the County.

CHRISTIANSBURG ELEMENTARY SCHOOLS 3-SCHOOL PPEA | CHRISTIANSBURG, VIRGINIA

Montgomery County Public Schools
750 Imperial Street
Christiansburg, VA 24073
Tommy Kranz | 540-382-5100

5 Design, LLC
597 Depot Street
Christiansburg, VA 24073
J.D. Price I 540-230-2619

Branch was selected as the design-builder through a competitive public-private partnership procurement process on this multi-faceted project involving the improvements of three separate elementary schools for long-time repeat client, Montgomery County Public Schools. Branch is working in partnership with 5 Design, LLC to design and manage the renovations and additions to existing Christiansburg Primary, Christiansburg Elementary & Belview Elementary Schools. Additions include new classrooms, a new gym, connector corridors, bathrooms, new canopy entrances, parking lots and student drop off areas. Renovations consist of classrooms, administration areas (new paint, flooring, casework and storefront), and minor renovation work in existing gyms. The project requires Branch to safely and unobtrusively work within, and around, the occupied schools utilizing thoughtfully planned, phased scheduling. Christiansburg Primary work consists of 22,800sf of additions and 40,500sf of renovations; Christiansburg Elementary School work consists of 21,250sf of additions and 4,200sf of renovations; Belview Elementary School work consists of 18,828sf of additions and 2,908sf of renovations.

JAIME ENGLISH, LEED AP
PRECONSTRUCTION MANAGER

EDUCATION

BS, Building Construction | 1999
Virginia Tech | Blacksburg, Virginia

CONTINUING EDUCATION

Construction Estimating Institute
General Estimating | 2002

The Branch Group University | 2006

The Management Institute | 2007
Roanoke College | Salem, Virginia

CERTIFICATION

LEED, AP Certification | 2009

PROFESSIONAL/TRADE ORGANIZATIONS

CMAA

23 YEARS OF EXPERIENCE

OTHER PROJECT EXPERIENCE

Roanoke College Cregger Center
VMI Science Building Renovation
VMI Corps Physical Training Facility, Phase II
Virginia Tech ICTAS Engineering Building
Ridgeview High School, Middle School, & Career Center
George Mason Elementary School
Liberty University Science Hall
Roanoke College Science Complex
Emory & Henry College, School of Health Sciences
Emory & Henry College Woodrow W. McGlothlin Center for the Arts
Sun Valley High School
Cabarrus County High School
Virginia Tech Residence Hall at Career Services
Virginia Tech CRC Integrated Life Sciences Building
Virginia Tech Rector Field House Improvements
Virgina Tech Academic Buildings Renovations
VWCC New STEM Building
Liberty University Library
Liberty University Softball Stadium
Liberty University Parking Deck
Liberty University Lake Project
The Locks Apartments
Interbake Apartments
VMI Military South Institute Hill Parking Lot
Frederick Douglass Elementary School
Virginia Tech West End Market Renovation
E.C. Glass High School Additions and Renovations
Radford University Russell Hall Renovation
Tecton Products, Inc.
JMU West Campus Parking Deck
AEP Appalachian Power Parking Deck

Jaime English graduated from Virginia Tech's Building Construction Program in 1999 (interned with Branch Highways, a sister company to Branch Builds during the summer of 1998) and upon graduation was hired as an assistant project manager for a prominent east coast general contractor headquartered in Florida. In June 2000, Branch recruited Jaime where he started his career in estimating; he was promoted to Senior Estimator in December 2011 and Preconstruction Manager in January 2012. Over the course of his 15 year tenure with Branch, Jaime has developed estimates for parking structures, higher education, K-12, science/lab, technology, multi-family residential, firearms training and stadium expansion projects to name just a few. Jaime is well versed in conceptual estimating and has been extensively involved with numerous higher education and K-12 CM@Risk and Design-Build projects. He leads Branch's BIM virtual building technology program.

HIGHLIGHTED PROJECT EXPERIENCE

MONTGOMERY COUNTY PUBLIC SCHOOLS 3-SCHOOL PPEA | MONTGOMERY COUNTY, VIRGINIA

Montgomery County Public Schools
200 Junkin Street
Christiansburg, VA 24073
Connie Froggatt | 540-818-9340

SHW (Blacksburg HS)
Bill Bradley | 434-295-8200
RRMM (Auburn MS & HS)
Ben Motley | 540-344-1212

This $107.5 million PPEA design-build project was a complex, multi-faceted undertaking that involved the design and construction management of three separate schools for Montgomery County Public Schools. The entire scope of work was procured under a single design-build contract. Blacksburg High School was a new 3-story, 300,000sf high school, Auburn High School was a new 175,000sf high school and Auburn Middle School involved the comprehensive renovation of the historic 120,000sf Auburn High School into the new middle school. The project required extensive preconstruction planning and due to extreme time constraints and the vast site development involved, both of the high school projects were constructed on fast-track schedules with partial Guaranteed Maximum Pricing (GMP) breakouts to facilitate early site grading, foundation and structural steel packages.

RIDGEVIEW COMBINED HIGH SCHOOL & MIDDLE SCHOOL | CLINTWOOD, VIRGINIA

Dickenson County School Board
309 Volunteer Avenue
Clintwood, VA 24228
Haydee Robinson | 276-926-4643

Perkins + Will
1315 Peachtree Streeet, NE
Atlanta, GA 30309
John Poelker | 404-443-7450

Branch was the successful low bidder on the new $59.2 million, 285,000sf Ridgeview High School, Middle School, and Career Center project in Clintwood, Virginia. The primary structure contained the high school, middle school, auditorium, and various athletic and arts program spaces, while an additional free standing structure houses the career education programs. The Ridgeview school consolidates the former Clintwood, Ervinton, and Haysi High Schools and create a new middle school for the County.

CHRISTIANSBURG ELEMENTARY SCHOOLS 3-SCHOOL PPEA | CHRISTIANSBURG, VIRGINIA

Montgomery County Public Schools
750 Imperial Street
Christiansburg, VA 24073
Tommy Kranz | 540-382-5100

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J.D. Price I 540-230-2619

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TONY BROWN
VICE PRESIDENT | ESTIMATING

Tony Brown has over 35 years of experience in the construction industry, having served as a Project Engineer, Project Manager, Estimator and Preconstruction Manager. He has extensive estimating and construction management experience with municipal, industrial, education, commercial, government, adaptive re-use, multi-family, hospitality and healthcare projects. He is seasoned in providing negotiated CM@Risk preconstruction estimating services as well as leading our estimating department's preparation of hard bid estimates. Tony's CM@Risk work involves conceptual estimating, constructability review and value analysis/engineering efforts associated with Branch's value-added preconstruction services. Tony joined Branch in 1987 and became Chief Estimator in 1998. He was named Vice President of Estimating in 2001.

EDUCATION

BS, Building Construction | 1984
Virginia Polytechnic Institute and State University | Blacksburg, Virginia

CONTINUING EDUCATION

FMI Construction Leadership Program | 2012

The Branch Group University | 2004

FMI Negotiating Success Program | 1999

35 YEARS OF EXPERIENCE

OTHER PROJECT EXPERIENCE

Christiansburg Elementary 3-School PPEA
Greenbrier High School West
Central Academy for Technology and Arts High School
Franklinton High School
Statesville High School (Phase I)
Rocky Mount High School
Statesville High School (Phase II)
Edgemont Primary & Jeter-Watson Intermediate
Elliston/Shawsville Elementary School
Effinger Elementary School
Powhatan Elementary School # 3
Ladysmith Elementary School
Hillsville Elementary School
Post Oak Middle School
Halifax Middle School
E.C. Glass High School
Highland Springs High School,
Douglas Freeman High School
VT Residence Hall at Career Services
VT New Egineering Building (ICTAS)
VT Owens and West End Dining Halls
VT Knowledge Works I & II
VT CRC - Integrated Life Sciences Building
VT Torgersen Hall
Virginia Tech Inn & Conference Center
VMI Alumni & Patchin Fields
VMI Military Training Grounds (Phase I)
VMI Nichols Engineering Hall Renovation
Radford University Fine Arts Center
Radford University Dedmon Center
Radford University Russell Hall Renovation
UVA Parking Deck
UVA Observatory Dining Hall
LU Williams Stadium Additions
Washington & Lee Sorority House #6
Longwood University Heat Plant Replacement
Bridgwater College Wright Hall
Tecton Products

HIGHLIGHTED PROJECT EXPERIENCE

MONTGOMERY COUNTY PUBLIC SCHOOLS 3-SCHOOL PPEA | MONTGOMERY COUNTY, VIRGINIA

Montgomery County Public Schools
200 Junkin Street
Christiansburg, VA 24073
Connie Froggatt | 540-818-9340

SHW (Blacksburg HS)
Bill Bradley | 434-295-8200
RRMM (Auburn MS & HS)
Ben Motley | 540-344-1212

This $107.5 million PPEA design-build project was a complex, multi-faceted undertaking that involved the design and construction management of three separate schools for Montgomery County Public Schools. The entire scope of work was procured under a single design-build contract. Blacksburg High School was a new 3-story, 300,000sf high school, Auburn High School was a new 175,000sf high school and Auburn Middle School involved the comprehensive renovation of the historic 120,000sf Auburn High School into the new middle school. The project required extensive preconstruction planning and due to extreme time constraints and the vast site development involved, both of the high school projects were constructed on fast-track schedules with partial Guaranteed Maximum Pricing (GMP) breakouts to facilitate early site grading, foundation and structural steel packages.

RIDGEVIEW COMBINED HIGH SCHOOL & MIDDLE SCHOOL | CLINTWOOD, VIRGINIA

Dickenson County School Board
309 Volunteer Avenue
Clintwood, VA 24228
Haydee Robinson | 276-926-4643

Perkins + Will
1315 Peachtree Streeet, NE
Atlanta, GA 30309
John Poelker | 404-443-7450

Branch was the successful low bidder on the new $59.2 million, 285,000sf Ridgeview High School, Middle School, and Career Center project in Clintwood, Virginia. The primary structure contained the high school, middle school, auditorium, and various athletic and arts program spaces, while an additional free standing structure houses the career education programs. The Ridgeview school consolidates the former Clintwood, Ervinton, and Haysi High Schools and create a new middle school for the County.

GREENE COUNTY COMBINED HIGH SCHOOL & MIDDLE SCHOOL | STANARDSVILLE, VIRGINIA

Greene County Public Schools
40 Celt Road
Stanardsville, VA 22973
Brian Huber | 540-560-8858

VMDO
200 E. Market St.
Charlottesville, VA 22902
Bryce Powell | 434-409-3046

Branch Builds, Inc. was selected to serve as the CM@Risk on this dynamic $24.2 million improvement project for Greene County Public Schools in Virginia. Located on a single campus, GCPS has a primary school, middle school, and high school with insufficient facilities and parking. This project consisted of an occupied – phased renovation and addition to the high school which required Branch to develop a phasing plan in 30 days that allowed for demolition of a middle portion of the high school – to rebuild the library, add a new entrance, add a new commercial kitchen and cafeteria, and add a media center. Upon completion of this phase 1 segment of construction, Greene County occupied the newly constructed space and Branch then demolished the existing kitchen/cafeteria and constructed new student space. While construction progressed at the High School, the Middle School work was also underway. For phase 1, Branch demolished the Middle School library, which was located in the center of the facility, and constructed new library space and a new entrance. Upon completion of phase 1, Branch completed the remodel of the existing kitchen and cafeteria. While school was out for the summer break, Branch performed a complete remodel of classroom and administrative areas.

BRYAN UNDERWOOD
SENIOR PROJECT MANAGER

Bryan Underwood has a proven track record of completing difficult projects on schedule and within tight budgets. As Senior Project Manager, he is an expert at problem resolution, project planning, and has earned a solid reputation for initiating, implementing and coordinating construction activities throughout the life of the project. He offers unique educational construction expertise and has successfully delivered numerous highly visible, large-magnitude education projects with critical occupancy deadlines. He is skilled in working with clients and owner's representatives in working to address the needs and concerns of the residents of the communities Branch serves. Bryan has vast experience in planning and safely managing projects on active higher education and K-12 campuses. His recent experience involved the successful delivery of the state-of-the-art athletic nutrition dining hall at Virginia Tech.

HIGHLIGHTED PROJECT EXPERIENCE

MONTGOMERY COUNTY PUBLIC SCHOOLS 3-SCHOOL PPEA | MONTGOMERY COUNTY, VIRGINIA

Montgomery County Public Schools
200 Junkin Street
Christiansburg, VA 24073
Connie Froggatt | 540-818-9340

SHW (Blacksburg HS)
Bill Bradley | 434-295-8200
RRMM (Auburn MS & HS)
Ben Motley | 540-344-1212

This $107.5 million PPEA design-build project was a complex, multi-faceted undertaking that involved the design and construction management of three separate schools for Montgomery County Public Schools. The entire scope of work was procured under a single design-build contract. Blacksburg High School was a new 3-story, 300,000sf high school, Auburn High School was a new 175,000sf high school and Auburn Middle School involved the comprehensive renovation of the historic 120,000sf Auburn High School into the new middle school. The project required extensive preconstruction planning and due to extreme time constraints and the vast site development involved, both of the high school projects were constructed on fast-track schedules with partial Guaranteed Maximum Pricing (GMP) breakouts to facilitate early site grading, foundation and structural steel packages.

PULASKI COUNTY MIDDLE SCHOOL | PULASKI, VIRGINIA

Pulaski County Public Schools
202 North Washington Avenue
Pulaski, VA 24301
Kevin Siers | 540-994-2550

RRMM Architects
28 Church Avenue, SW
Roanoke, VA 24011
Ben Motley | 540-344-1212

Branch was the successful low-bidder on the $37.1 million Pulaski County Middle School project for Pulaski County Public Schools. The new 168,989sf, modern 21st century educational facility is sized to accomodate 1,180 students. It has three classroom wings that separately extend out from the main section of the school. The main body of the school houses the auditorium, gym, auxiliary gym, locker rooms, administrative offices, media center, cafe/kitchen and vocational classrooms. Located on a scenic 59-acre site, the structure is a mix of masonry and steel load bearing construction while the exterior is a mixture of brick veneer and metal cladding. The school has plenty of daylighting with large windows and light monitors. Branch utilized a fast-track construction schedule that was heavily reliant on our Team Centered Planning and Lean Construction program to provide the most efficient construction means and methods possible, as part of Branch's value-added service. The new Pulaski County Middle School allows Pulaski County to consolidate two very old middle schools into this one new facility. The project continued Branch's long history of building K-12 schools in Virginia's New River Valley region.

CHRISTIANSBURG ELEMENTARY SCHOOLS 3-SCHOOL PPEA | CHRISTIANSBURG, VIRGINIA

Montgomery County Public Schools
750 Imperial Street
Christiansburg, VA 24073
Tommy Kranz | 540-382-5100

5 Design, LLC
597 Depot Street
Christiansburg, VA 24073
J.D. Price I 540-230-2619

Branch was selected as the design-builder through a competitive public-private partnership procurement process on this multi-faceted project involving the improvements of three separate elementary schools for long-time repeat client, Montgomery County Public Schools. Branch is working in partnership with 5 Design, LLC to design and manage the renovations and additions to existing Christiansburg Primary, Christiansburg Elementary & Belview Elementary Schools. Additions include new classrooms, a new gym, connector corridors, bathrooms, new canopy entrances, parking lots and student drop off areas. Renovations consist of classrooms, administration areas (new paint, flooring, casework and storefront), and minor renovation work in existing gyms. The project requires Branch to safely and unobtrusively work within, and around, the occupied schools utilizing thoughtfully planned, phased scheduling. Christiansburg Primary work consists of 22,800sf of additions and 40,500sf of renovations; Christiansburg Elementary School work consists of 21,250sf of additions and 4,200sf of renovations; Belview Elementary School work consists of 18,828sf of additions and 2,908sf of renovations.

EDUCATION

BS, Building Construction | 1996
Virginia Tech, Blacksburg, Virginia

FMI Emerging Managers Institute | 2011

FMI Building Long Term Business Relationships | 2011

23 YEARS OF EXPERIENCE

OTHER PROJECT EXPERIENCE

VMI Nicols Hall Renovation

Blacksburg High School

Emory & Henry College, School of Health Sciences

Rockingham County Judicial Center

Giles County High School

Narrows High School

Glenvar High School Renovations & Additions

Glenvar Middle School

Montgomery Central High School

FEMA Emergency Radio Network Center

Virginia Tech Harper Hall

Longwood University Brock Commons

Snowshoe Resort Allegheny Springs Condominiums

Roanoke Higher Education Center Renovations

Virginia Tech ICTAS Engineering Building

Virginia Tech Academic Buildings Renovations

Virginia Tech Student Athletic Performance Center

VSU M.T. Carter Building

JIMMY KENYON
SENIOR SUPERINTENDENT

Jimmy Kenyon is a versatile field construction professional with over 23 years of construction industry experience, primarily on K-12 and higher education projects. A client-focused and results-oriented field leader, he has established a track record for building consensus among project team members toward the achievement of client objectives. His experience includes developing partnerships and building positive rapport with architects, engineers, vendors and clients while maintaining costs and turning over projects ahead of absolute occupancy deadlines. Jimmy prefers a "hands-on" approach to field supervision and maintains close involvement in coordinating and overseeing subcontractor activities. He has successfully supervised numerous large-magnitude education projects over the course of his career, including the state-of-the-art athletic nutrition dining hall at Virginia Tech.

EDUCATION

North Surry High School | 1997
Mount Airy, North Carolina

CERTIFICATION

OSHA 30 Hour
Procore Certified

23 YEARS OF EXPERIENCE

OTHER PROJECT EXPERIENCE

Virginia Tech Academic Buildings Renovations
Virginia Tech Student Athetic Performance Center
Roanoke College Cregger Center
Virginia Tech ICTAS Engineering Building
The Vue Apartments
Park 37 Apartments
Emory & Henry College, School of Health Sciences
Franklinton High School
Montgomery Central High School
Winston-Salem Joint Firearms Training Facility
Pulaski County Middle School
Auburn High School
Dudley High School
Southwest Elementary School
Kernersville Middle School
UNCG Alumni House)
UNCG Gove Health Center
GTCC Career Technical Center
Blarney Creek Office Building Parking Deck
AEP Appalachian Power Parking Deck

HIGHLIGHTED PROJECT EXPERIENCE

MONTGOMERY COUNTY PUBLIC SCHOOLS 3-SCHOOL PPEA | MONTGOMERY COUNTY, VIRGINIA

Montgomery County Public Schools
200 Junkin Street
Christiansburg, VA 24073
Connie Froggatt | 540-818-9340

SHW (Blacksburg HS)
Bill Bradley | 434-295-8200
RRMM (Auburn MS & HS)
Ben Motley | 540-344-1212

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CHRISTIANSBURG ELEMENTARY SCHOOLS 3-SCHOOL PPEA | CHRISTIANSBURG, VIRGINIA

Montgomery County Public Schools
750 Imperial Street
Christiansburg, VA 24073
Tommy Kranz | 540-382-5100

5 Design, LLC
597 Depot Street
Christiansburg, VA 24073
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RIDGEVIEW COMBINED HIGH SCHOOL & MIDDLE SCHOOL | CLINTWOOD, VIRGINIA

Dickenson County School Board
309 Volunteer Avenue
Clintwood, VA 24228
Haydee Robinson | 276-926-4643

Perkins + Will
1315 Peachtree Streeet, NE
Atlanta, GA 30309
John Poelker | 404-443-7450

Branch was the successful low bidder on the new $59.2 million, 285,000sf Ridgeview High School, Middle School, and Career Center project in Clintwood, Virginia. The primary structure contained the high school, middle school, auditorium, and various athletic and arts program spaces, while an additional free standing structure houses the career education programs. The Ridgeview school consolidates the former Clintwood, Ervinton, and Haysi High Schools and create a new middle school for the County.

Kenneth Thacker AIA, LEED AP

Principal — VMDO Architects

Project Role: Principal In Charge

Ken brings a comprehensive range of skills to VMDO Architects. He has served both K-12 and higher education clients as a Design Principal and has been responsible for over $200 million in K-12 construction alone. Ken particularly enjoys the challenge of "doing more with less" of developing architecture within the constraints of limited budgets, tight schedules, or both.

Exhibiting an appreciation and understanding of the complexities of building, Ken has developed a rapport with the construction industry that often results in economical, time-saving, and occasionally ingenious solutions to construction and design issues as they develop in the field. The mutual respect that develops among the project team leads to an enjoyable process and, often, a better project.

Like many at our firm, Ken is passionate about the intersection of education and architecture, and believes his most important professional responsibility beyond project leadership is in training young architects. His role as Principal-in-Charge on demanding projects allows him to lead by example and coach, motivate, and inspire the people with whom he works.

Experience

Year Started Professional Practice: 1982

Year Started at VMDO: 1996

Education

Master of Architecture
University of Illinois - Chicago — 1995

Bachelor of Science in Architecture
University of Virginia — 1987

Professional Registration

Registered Architect:
Virginia

Memberships + Accreditations
American Institute of Architects, Member

Relevant Project Experience

Albemarle County Public Schools
Crozet Elementary School Expansion
Environmental Studies Academy, WAHS
Jouett MS + Walton MS Learning Labs Renovation
Western Albemarle HS Science Lab Add. + Reno.

Arlington Public Schools
Elementary Schools Facilities Studies
Discovery Elementary School
Alice West Fleet Elementary School
Reed Elementary School

Bedford County Public Schools
Forest Middle School Renovation + Addition

Catholic Diocese of Arlington
St. Paul VI Catholic High School

Charlottesville City Schools
CHS Science Labs Renovation
CCS Capacity Study
Clark Elementary School Modernization
Jackson Via Elementary School Modernization
Burnley-Moran Elementary School Modernization

Chatham Hall School
Dabney Hall + Pruden Hall Renovations
Health + Wellness Center Study

Cristo Rey - Richmond High School
Planning Study

Fauquier County Public Schools
Fauquier High School Addition + Renovation

Harrisonburg City Public Schools
Bluestone Elementary School
Thomas Harrison MS Facilities Study + Renovation

Louisiana Recovery School District
Ben Franklin HS Facility Needs Analysis + MPEdna Karr High School

Manassas Park City Schools
Manassas Park Elementary School + Pre-K
Cougar Elementary School
Manassas Park MS Addition + Renovation
Manassas Park High School

Montgomery County Public Schools
Poolesville High School Addition + Renovation

Orange County Public Schools
Orange County HS Addition + Renovation

Richmond Public Schools
Broad Rock Elementary School
Oak Grove-Bellemeade Elementary School
Dove Court Elementary Planning Study

Trinity Episcopal School, New Orleans
Master Plan

Kelly Callahan AIA

Principal — VMDO Architects

Project Role: Project Architect

As one of VMDO's principals, Kelly plays a key role in shepherding K-12 education projects from conception to completion. She places high priority in design on a sense of place, definitions of public space, and the resolution of a building as a built object. Her sustained experience with publicly funded projects involving multiple end users result in designs of appropriate and delightful places that foster learning. For example, Kelly oversaw VMDO's recent project for Fairfax County Public Schools: the renovation and addition of North Springfield Elementary School.

Kelly provided seamless project design, delivery, and management for Buckingham County Primary and Elementary Schools, which garnered awards at the local, state, and national levels for its integrated approach to supporting the whole child, particularly from a vantage point of health and wellness.

More recently, she was the project architect for Harrisonburg's new Bluestone Elementary School and the Elon W. Rhodes Early Learning Center. Bluestone received the Center for the Built Environment's 2019 Livable Buildings Award, making it the "happiest school in America" based on occupant surveys.

Experience

Year Started Professional Practice: 1987

Year Started at VMDO: 2007

Education

Bachelor of Science in Architecture
Virginia Tech University — 1987

Professional Registration

Registered Architect:
California

Memberships + Accredidations
American Institute of Architects, Member
AIA Central Virginia, Former President

Relevant Project Experience

Albemarle County Public Schools
Brownsville Elementary Addition + Renovation

Arlington Public Schools
Cardinal Elementary School

Buckingham County Public Schools
Buckingham County Primary + Elementary Schools
Bus + Garage Facility Addition

Bedford County Public Schools
Forest Middle School Renovation + Addition

Catholic Diocese of Arlington
Paul VI Catholic High School

DC Department of General Services
DC Infrastructure Academy at Spingarn High School

Department of Defense Education Activity (DoDEA)
Quantico New Middle/High School

Fairfax County Public Schools
North Springfield Elementary School
Renovation / Addition

Harrisonburg City Public Schools
Bluestone Elementary School
Elon W. Rhodes Early Learning Center
New High School Feasibility Study

Lancaster County Public Schools
Comprehensive Facilities Study
New Educational Campus

Montgomery County Public Schools (MD)
Poolesville High School Feasibility Study
Poolesville High School Renovation + Additions

Stockton University
Student Center

Winchester Public Schools
Emil & Grace Shihadeh Innovation Center
John Handley High School Athletics Bowl
John Handley High School Tennis Pavilion

Rob Winstead AIA, ALEP, LEED AP, BD+C

Principal — VMDO Architects

Project Role: Educational Planner

A nationally-recognized expert in learning space planning and design as well as sustainability, Rob is an advocate for exceptional learning spaces that blend thoughtful design with high performance goals to deliver added value for clients and users. In his previous tenure with VMDO (1998-2008), Rob served as VMDO's first Director of Sustainability and contributed to the firm's first AIA Committee on the Environment award for the design of Manassas Park Elementary School. His work across the country has been recognized with numerous awards for planning, design, architecture, urbanism, and sustainability. In 2018, Rob was recognized as the Planner of the Year by the Virginia Association for Learning Environments for his many outstanding contributions to the field of architecture specializing in innovative learning environments that support health, wellness, and environmental stewardship.

As a mentor and manager, Rob is committed to a collaborative, integrated, and inclusive process that complements VMDO's relationship-based approach to developing customized solutions for clients and communities. As an active member of the design community, Rob serves in key leadership roles with organizations such as the Association for Learning Environments, the AIA's Committee on Architecture for the Environment, and AIA Central Virginia.

Experience

Year Started Professional Practice: 1992

Year Started at VMDO: 1998-2008; 2017

Education

Master of Architecture
Harvard University, 1997

Bachelor of Science in Architecture
University of Virginia, 1991

Professional Registration

Registered Architect:
Virginia, Maryland, Washington, DC, West Virginia

Memberships + Accreditations
Association for Learning Environments
American Institute of Architects, Member
AIA Central Virginia, Former President
AIA Committee on Architecture for the Environment
LEED AP Building Design + Construction, U.S. Green Building Council

Relevant Project Experience

Albemarle County Public Schools
Brownsville Elementary Addition + Renovation

Anne Arundel County Public Schools
Northeast High School Renovation*

Arlington Public Schools
Arlington Tech Feasibility Study*
Ashlawn Elementary School Addition + Renovation*
Cardinal Elementary School

Baltimore City Public Schools
Patterson High School *

Bedford County Public Schools
Forest Middle School

Blacksburg City Public Schools
Blacksburg High School*

Charles County Public Schools
St. Charles High School*

Coppell Independent School District
Richard J. Lee Elementary School*

DC Department of General Services
DC Infrastructure Academy at Spingarn High School

Department of Defense Education Activity
Humphreys East Elementary School

District of Columbia Public Schools
H.D. Woodson STEM High School*

Frederick County Public Schools
Frederick County Middle School*

Henrico County Public Schools
Crestview Elementary School Renovation*
Dumbarton Elementary School Addition*
Skipwith Elementary School Renovation*

Loudoun County Public Schools
Academies of Loudoun STEM Education Center*
Rock Ridge High School Renovation*
Riverside High School Renovation*

Manassas Park Public Schools
Manassas Park Elementary School

Montgomery County Public Schools
Poolesville High School Feasibility Study
Poolesville High School Renovation + Additions

Mundo Verde Charter School
Calle Ocho Campus Master Plan

Prince George's County Public Schools
Highpoint High School Feasibility Study*
Woodmore Elementary School Feasibility Study

Stafford County Public Schools
Brooke Point High School Addition + Renovation*
Colonial Forge High School Addition + Renovation*
Ferry Farm Elementary School Addition + Renovation*
Mountain View High School Addition + Renovation*
North Stafford High School Library Renovation*

Winchester Public Schools (VA)
Emil + Grace Shihadeh Innovation Center

* Completed with a previous firm

STEVE RAUGH, PE, LEED AP

Senior Civil Engineer | Principal K-12

Steve has devoted over three decades of superior service to the civil engineering field. His expertise includes the planning and design of public schools, parks, libraries, athletic facilities, and stormwater management facilities. Steve's extensive knowledge encompasses all phases of site development for educational facilities, which includes layouts, grading plans, sanitary sewers, water distribution systems, fire protection, stormwater management and cost estimating. Steve is a Principal at Timmons Group, a former board member of the Association for Learning Environments (A4LE), and well versed in collaborative design workshops for public school facilities.

Select Project Experience

- Huguenot High School Replacement, Richmond, VA
- Armstrong High School Demolition, Richmond, VA
- Broad Rock and Greene Elementary School, Richmond, VA
- John Marshall High School: Track & Field Construction Observation, Richmond, VA
- Mosby Middle School Track Improvements, Richmond, VA
- Whitcomb Court Elementary School Demolition, Richmond, VA
- Highland Springs High School Replacement, Henrico County, VA
- JR Tucker High School Replacement, Henrico County, VA
- Atlee High School Track Surface Replacement, Hanover County, VA
- Brooke Point High School Addition, Stafford County, VA
- Colonial Forge High School, Stafford County, VA
- Colonial Forge High School Addition, Stafford County, VA
- Colonial Heights High School Fitness Addition, Colonial Heights, VA
- Courtland High School Addition/Renovation, Spotsylvania County, VA
- Dinwiddie High School, Dinwiddie County, VA
- Douglas Freeman High School - Athletic Facility, Henrico County, VA
- East Area High School, Henrico County, VA
- Elko High School Master Plan, Henrico County, VA
- Essex County High School & Arts Center Renovation/Addition, Essex County, VA
- Fluvanna High School, Fluvanna County, VA
- Glen Allen High School, Henrico County, VA
- Gloucester High School Master Plan Facilities Condition Assessment & Master Plan, Gloucester County, VA
- Henrico County High School Turf, Henrico County, VA
- Henrico High School Renovation, Henrico County, VA
- Heritage High School Site Evaluation, Lynchburg, VA
- Heritage High School, Lynchburg, VA
- Lancaster High School Study, Lancaster County, VA
- Liberty High School - Gym Addition, Bedford, VA
- Magnolia Green Elementary/High School, Chesterfield County, VA
- Midlothian High School Addition, Chesterfield County, VA
- Monacan High School Addition, Chesterfield County, VA
- Patrick Henry High School Track Surface Replacement, Hanover County, VA
- Salem and First Colonial High Schools, Virginia Beach, VA
- Warhill High School, Williamsburg, VA

Education

- Bachelor of Science, Virginia Tech, Civil Engineering, 1991

Registration

- Professional Engineer: VA
- LEED Accreditation

Experience

- 30 Years

Affiliations

- Chesterfield Education Foundation
- Association for Learning Environments

GREG NELSON, PE, LEED AP

Project Manager / Civil Engineer

Overview

Greg is a Project Manager at Timmons Group with a breadth of experience including site design for public and private land development, such as K-12 and higher education campuses, parks and recreational spaces, commercial facilities, and more. His responsibilities included site layout, grading, storm sewer and utility design, hydrological analysis, stormwater management, plan preparation, and project coordination and management. He has extensive experience with publicly bid projects.

Select Project Experience

- Moseley Elementary School, Chesterfield County, VA
- Enon Elementary School Feasibility Study, Chesterfield County, VA
- Enon Elementary School Redesign, Chesterfield County, VA
- Manchester Middle School Curb Stakeout, Chesterfield County, VA
- Falling Creek Middle School, Chesterfield County, VA
- Reams Elementary School A.M. Davis Temp Trailers, Chesterfield County, VA
- Crestwood Elementary School - Bon Air Temp Class Trailers, Chesterfield County
- Matoaca Elementary School Modular, Chesterfield County, VA
- Matoaca Middle School Tennis Court Removal, Chesterfield County, VA
- Falling Creek Elementary School Modular Classroom Bld, Chesterfield County
- Old Hundred Elementary School Modular Classroom Bldg, Chesterfield County
- Falling Creek Middle School: Modular Classroom Bldg, Chesterfield County, VA
- Grange Hall Elementary School Modular Classroom Bldg, Chesterfield County, VA
- Cosby High School Modular Classroom Bldg, Chesterfield County, VA
- J.R. Tucker School Replacement, Henrico County, VA
- Manchester Middle School Replacement, Chesterfield County, VA
- Byrd Elementary School Parking Lot Expansion, Goochland County, VA
- Randolph Elementary School Parking Lot Expansion, Goochland County, VA
- Walton Elementary School Replacement (Prince George Elementary School), Prince George County, VA
- Longan Elementary School Parking Expansion, Henrico County, VA
- Davis Elementary School Parking Expansion, Henrico County, VA
- Dinwiddie High School, Dinwiddie County, VA
- East Area High School
- Henrico High School Renovation, Henrico County, VA
- Sussex High School Track Upgrades, Sussex, VA
- Culpeper High School, Culpeper, VA
- Mountain View High School Addition, Stafford County, VA
- Colonial Forge High School Addition, Stafford County, VA
- Brooke Point High School Addition, Stafford County, VA

Education

- Bachelor of Science, Civil Engineering, SUNY Buffalo, 2007

Registration

- Professional Engineer: VA
- LEED Accredited Professional

Experience

- 15 Years

Affiliations

- American Society of Civil Engineers

CRAIG KOTARSKI, PE, LEED AP

Senior Civil Engineer | Group Leader

Craig has over 17 years of experience working closely with the project team to prepare engineering and design documents according to project requirements. From concept design to construction administration, he has been involved with new and addition/ renovation projects for K-12, public safety facilities, healthcare, higher education, municipal, residential, and commercial. As a Principal in Timmons Group's Charlottesville office, Craig supports the staffing requirements of the project managers to ensure that capacity is available to meet project schedules.

Select Project Experience

- Albemarle High School Addition and Renovations, Charlottesville, VA
- Albemarle High School Modular Classroom Addition, Albemarle County, VA
- Albemarle & Western Albemarle High Schools Turf Replacements, Albemarle County, VA
- Western Albemarle High School Science Addition, Albemarle County, VA
- Western Albemarle High School Site Improvements, Albemarle County, VA
- Charlottesville High School Track Study, Charlottesville, VA
- Charlottesville High School Track Replacement, Charlottesville, VA
- Louisa County High School, Louisa County, VA
- Albemarle County Schools Athletic Fields Turf Replacement Feasibility Study, Albemarle County, VA
- Agnor-Hurt Elementary School, Albemarle County, VA
- Crozet Elementary School Additions & Renovations, Albemarle County, VA
- Greer Elementary School Revision of the Phase 2 Site Plan, Albemarle County, VA
- Henley Middle School Site Improvements, Albemarle County, VA
- Hollymead Elementary School Parent/Bus Drop Off, Albemarle County, VA
- Jack Jouett Middle School Security Addition, Albemarle County, VA
- Cale Elementary School Additional Services, Albemarle County, VA
- Cale Elementary School Security Improvements, Albemarle County, VA
- Woodbrook Elementary School Addition, Albemarle County, VA
- Scottsville Elementary School Additions, Albemarle County, VA
- Scottsville Elementary School Security Vestibule, Albemarle County, VA
- Scottsville Elementary School Survey & Design for Trailer, Albemarle County, VA
- Red Hill Elementary School Security Addition, Albemarle County, VA
- Red Hill Elementary School Additions and Renovations, Albemarle County, VA
- Red Hill Elementary School Drainage, Albemarle County, VA
- Study of the Charlottesville High School Stadium Integrating the track to the Site, Charlottesville, VA
- Charlottesville Day School, Charlottesville, VA
- Charlottesville Day School Site Improvements, Charlottesville, VA
- Forest Middle Schools Additions & Renovations, Bedford County, VA
- Jouett Elementary School Addition, Louisa County, VA
- Lancaster Middle School Renovations, Lancaster County, VA
- Porterfield Park Wall Replacement, Orange County, VA
- Thomas Jefferson Elementary School, Louisa County, VA

Education

- Bachelor of Science, Civil Engineering, University of Virginia, 2006

Registration

- Professional Engineer: VA
- LEED Accreditation

Experience

- 17 Years

Affiliations

- Virginia Economic Development Association
- Urban Land Institute
- Virginia Society Healthcare Engineers
- Charlottesville Chamber of Commerce

Lee Harrelson PE, LEED AP

Principal

ROLE: Principal-in-Charge

Profile

Mr. Harrelson is a Principal and Senior Mechanical Engineer at CMTA. He is responsible for managing, supervising and performing design of the engineering components of major architectural and engineering projects. His exceptional dedication to client service and quality control, coupled with his sustainable design expertise have helped him to lead major government and private sector modernization projects.

He was recognized by Consulting Specifying Engineer Magazine as a "40 Under 40" award winner, recognizing the nation's top 40 engineers in the A/E/C business, under the age of 40. Lee has been a lecturer and critic at the Catholic University of America where he taught MEP systems integration to aspiring architects. He is also active in the local engineering community, most recently participating in the US Department of Energy Solar Decathlon and ASHRAE.

Role

As the Principal-in-Charge, Mr. Harrelson coordinates with the Owner, the Architect and the CMTA Design Team to meet the expectations of this project. He strongly promotes that energy efficient design principles are incorporated into the MEP systems.

Education

- Master of Science, Engineering Management, George Washington University, 2010
- Bachelor of Mechanical Engineering, University of Virginia, 2002

Registrations/Certifications

- Licensed Professional Engineer (PE): Virginia (#0402044567), DC (#904584), California (#33583)
- LEED (Leadership in Energy and Environmental Design) Accredited Professional

Years Experience: 20 | Years with Firm: 17

CMTA

Related Projects

DC Public Schools

Washington, DC

Benjamen Bannekar Academic High School

- Targeting LEED Platinum, Zero Energy and WELL

Bard High School Renovation/Addition

- Targeting LEED Platinum, Zero Energy and WELL

John Eaton Elementary School Modernization

- Targeting LEED Gold

Loudoun County Public Schools

Ashburn, Virginia

Assessment

- Power Purchase Agreement Review

Hovatter Elementary School

- 110,400 SF New Facility
- ENERGY STAR

Frederick County Public Schools

Winchester, Virginia

Jordan Springs Elementary School

- 84,375 SF New Facility

Armel Elementary School

- Elementary School Renovation
- Chiller Replacement

Baltimore City Public Schools

Baltimore, Maryland

Graceland Park-O'Donnell Heights Elementary/ Middle School

- Zero Energy, LEED Platinum Targeted
- 21st Century Schools
- 94,000 SF, $34M

Holabird Elementary/Middle School

- Zero Energy, LEED Platinum Targeted
- 21st Century Schools
- 94,000 SF, $34M

Johnathan Stewart PE, LEED AP, WELL AP

ROLE: Project Manager / Sr. Electrical Engineer

Profile

As a seasoned electrical engineer, Mr. Stewart has designed a variety of lighting, power and photovoltaic projects in a multitude of K-12 new and renovated facilities. He concentrates on high efficiency electrical systems to reduce operating costs of building and communications systems while allowing users to teach with the latest technology. He also has experience with athletic field and track lighting.

Mr. Stewart is very familiar with the practices associated with high performance sustainable designs as described in the USGBC as well as guidelines mentioned in the NABCEP Certification Handbook. As Lead Electrical Engineer, Mr. Stewart will lead project team members throughout each phase, tackle any electrical issues head-on and ensure all project expectations are met.

Role

As Project Manager and Sr. Electrical Engineer, Mr. Stewart will coordinate all electrical design requirements with design team and end-user personnel to ensure all systems meet the standards and requirements of the specific facility. He will coordinate with the design team to meet the expectations of the project.

Education

- Bachelor of Science Degree, Electrical Engineering, University of Kentucky, 2009

Registrations and Certifications

- Licensed Professional Engineer in the State of Kentucky #30179
- LEED (Leadership in Energy and Environmental Design) Accredited Professional Building Design + Construction
- WELL Accredited Professional
- NABCEP Certified PV Installation Professional

Years Experience: 15 | Years with Firm: 14

CMTA

Related Projects

Loudoun County Public Schools, Hovatter Elementary School

Aldie, Virginia

- New 110,400 SF Facility
- ENERGY STAR

Alexandria City Public Schools

Alexandria, Virginia

Minnie Howard High School

- New 312,000 SF Facility
- Targeting Zero Energy
- LEED Gold Targeted

Douglas MacArthur Elementary

- New 140,000 SF Facility
- Targeting Zero Energy
- Targeting Energy Star

Baltimore City Public Schools

Baltimore, Maryland

Graceland Park-O'Donnell Heights Elementary/ Middle School

- Zero Energy, LEED Gold Certified
- 21st Century Schools
- 94,000 SF, $34M

Holabird Elementary/Middle School

- Zero Energy, LEED Gold Certified
- 21st Century Schools
- 94,000 SF, $34M

DC Public Schools, John Lewis Elementary School

Washington, DC

- 88.588 SF New Facility
- Targeting Zero Energy
- LEED Platinum Targeted
- WELL Gold Targeted

Drew Roberts PE, WELL AP

Partner

ROLE: Sr. Mechanical Engineer

Profile

Mr. Roberts has completed numerous K-12 education projects, including both new construction and phased renovations, and has a thorough understanding of the unique requirements associated with this building type. Many of his educational projects have included sustainable design features such as geothermal water source systems, high efficiency pumping systems, energy recovery systems, carbon dioxide monitoring systems and renewable energy systems such as photovoltaics and solar thermal.

Role

As the Sr. Mechanical Engineer Mr. Roberts will be responsible for the design and specification of mechanical systems for this project. He will coordinate with the Design Team and Owner to meet the expectations of this project. He will be responsible for the production of plans and specifications for the mechanical systems to ensure the design developed by the team will be executed properly.

Education

- Master of Science- Biosystems Engineering, Controlled Environmental Systems, University of Kentucky, 2013
- Bachelor of Science Degree- Mechanical Engineering, University of Kentucky, 2009

Registrations

- Licensed Professional Engineer- Kentucky (#32624), Virginia (#0402062859)
- WELL Accredited Professional (WELL AP)

Professional Activities

- ASHRAE – Bluegrass Chapter
- USGBC (United States Green Building Council) Member

Years Experience: 9
Years with Firm: 7

CMTA

Related Projects

Frederick County Public Schools

Winchester, Virginia

Jordan Springs Elementary School

- 84,375 SF New Facility

Armel Elementary School

- Elementary School Renovation
- Chiller Replacement

Baltimore City Public Schools

Baltimore, Maryland

Graceland Park-O'Donnell Heights Elementary/ Middle School

- Zero Energy, LEED Gold Certified
- 21st Century Schools
- 94,000 SF, $34M

Holabird Elementary/Middle School

- Zero Energy, LEED Gold Certified
- 21st Century Schools
- 94,000 SF, $34M

Alexandria City Public Schools Douglas MacArthur Elementary

Alexandria, Virginia

- New 140,000 SF Facility
- Targeting Zero Energy
- Targeting Energy Star

York County School Division, Facility Analysis/ Space Planning Study

Yorktown, Virginia

Brad Bittmann

ROLE: Plumbing Engineer

Profile

Mr. Bittmann is a Mechanical Engineer at CMTA with over three years of experience in the consulting engineering field.
He is responsible for designing engineered mechanical systems for commercial, multi-family residential, and educational facilities. He has managed several commercial renovation projects. Mr. Bittmann has worked on several different K-12 education projects within the Washington, DC Metro area, all varying in size and specific scope, from system replacements to new construction. He regularly supports the construction phase of his projects and helps to ensure the delivery of project goals.

Role

As the Plumbing Engineer Mr. Bittmann will be responsible for the design of the plumbing systems for this project. He will coordinate with the Design Team to meet the expectations of this project. He will be responsible for the production of plans and specifications for the plumbing systems to ensure the design developed by the team will be executed properly.

Education

- Bachelor of Science, Mechanical Engineering, University of Virginia, 2017

Years Experience: 5
Years with Firm: 5

Related Projects

Loudoun County Public Schools, Hovatter Elementary School

Aldie, Virginia

- New 110,400 SF Facility
- ENERGY STAR

DC Public Schools

Washington, DC

Eaton Elementary School

- 52,560 SF Modernization
- LEED Gold Targeted

Ferebee High School KIPP

- 111,557 SF New Facility
- LEED Gold Targeted

MC Terrell Kipp DC Elementary

- 27,880 SF Addition
- LEED Gold Targeted

Breakthrough Montessori DC Public Charter School

Washington, DC

- 100,000 SF Renovation
- LEED Gold

Arlington County Public Schools,Randolph Elementary School HVAC Modernization

Arlington, Virginia

- 120,000 SF Renovation

CMTA

Brice Watson PE, WELL AP

ROLE: Zero Energy Engineer / QA/QC

Profile

Mr. Watson joined CMTA after graduating from the University of Tennessee at Martin in the winter of 2013. Since joining the firm in 2014, his project experience includes many health care and education projects, both higher education and K-12 work including the Alice Fleet West Elementary School at Arlington Public Schools and facilities for Harrisonburg Public Schools in Harrisonburg, Virginia. He has experience in the design of HVAC systems, air distribution, hydronic and process piping systems, medical gas systems, fire protection and plumbing.

Role

Mr. Watson will be responsible for Quality Control of the project and will coordinate with the Owner, the Architect and the CMTA Design Team to meet the expectations of this project. He will review design and planning documents relative to conformance to original design and planning decisions. This review will assist the project manager in maintenance of the budget and schedule. Mr. Watson will ensure that the MEP systems meet the project's requirements for sustainability especially in the area on energy efficiency. He will ensure the MEP systems provide a comfortable and sustainable environment.

Education

- Bachelor of Science Degree, Mechanical Engineering, University of Tennessee, 2013

Registrations

- Licensed Professional Engineer (PE) in the State of Kentucky (#33874)
- WELL AP

Years Experience: 7
Years with Firm: 7

Related Projects

Arlington Public Schools

Arlington, Virginia

Discovery Elementary

- New 98,000 SF Facility
- LEED Zero
- LEED Gold
- AIA COTE Award
- ASHRAE National Technology Award

Walter Reed Elementary

- 110,000 SF Addition/Renovation
- Zero Energy Targeted
- LEED Silver Targeted

Alice West Fleet Elementary School

- 110,000 SF New Facility
- Zero Energy
- LEED Platinum

Harrisonburg City Public Schools

Harrisonburg, Virginia

Bluestone Elementary

- 103,000 SF New Facility
- Zero Energy

Elon Rhodes Early Learning Center

- 16,313 SF New Facility
- LEED Gold
- ENERGY STAR

Osceola County School District, NeoCity Academy STEM School

Kissimmee, Florida

- New 44,600 SF Facility
- Zero Energy
- Climate Champion Award

CMTA

Education
Master of Arts, (Non-Technical Field) Dallas Theological Seminary, 1985
Bachelor of Science, Architectural Engineering, University of Texas, 1979

Registrations
Registered Professional Engineer: VA, GA
NCEES Record Holder for prompt registration in other states as required

Prior Work Experience
TDFB – Richmond, VA (1993 - 1997)

Volunteer Activities and Organizations
American Institute of Steel Construction
Structural Engineers Associates of Virginia

SELECTED PROJECT EXPERIENCE

Broad Rock Elementary School
Richmond, Virginia
New elementary school accommodating 650 students. 93,600 sf. Achieved LEED Gold.

Dumbarton Elementary School Addition
Richmond, Virginia
New 61,315 sf addition, 11,700 sf one-story classroom addition.

Donahoe Elementary School Addition
Richmond, Virginia
New 16,000 sf, one-story, classroom addition.

Ecoff Elementary School
Chesterfield, Virginia
New one-story, 11,500 sf, classroom addition.

Fairfield Middle school Renovations
Richmond, Virginia
A new 4,000 sf administration building and renovation of 17 individual buildings.

.Oak Grove Elementary School
Richmond, Virginia
2013 $21,000,000
New elementary school accommodating 650 students. 90,000 sf of new construction, 25,000 sf in renovations. Achieved LEED Gold.

JOHN B. IRELAND, III
PE, Vice President

Profile
John B. Ireland, III, PE joined Fox + Associates in 1997.

John's experience was gained by working in a diverse background of design firms which included a large architectural/engineering firm with a small structural department, and medium sized engineering firm with structural and civil, and a MEP consulting firm with a structural department.

Based on his diversity, he has developed a well-rounded background of knowledge in all aspects of design fields, projects, and construction.

John's project experience includes university and secondary educations facilities, sports stadiums, gymnasiums, field houses, pools, office buildings, historic renovations, retail stores, manufacturing plants, warehouses, industrial plants, and hospitals. Structural design experience has included structures in cast-in-place concrete, precast concrete, steel, CFMF, wood, CTL panels, MPC trusses, and masonry.

SPRINGPOINT STRUCTURAL

FOX + ASSOCIATES

Education
Bachelor of Science, Civil Engineering, Syracuse University, 2014
Master of Engineering, Architectural Engineering, Illinois Institute of Tech., 2017

Registrations
Registered Professional Engineer: VA, CA
NCEES Record Holder for prompt registration in other states as required

Prior Work Experience
Thornton Tomasetti - Chicago, IL (2015)
Wiss, Janney, Elstner Associates - Chicago, IL (2016)
Keast & Hood - Charlottesville, VA (2018)

Volunteer Activities and Organizations
Association of Preservation Technology: DC Chapter
Committee Member - AIA Richmond - Young Architects Forum
Board Member - Charlottesville Revit User Group

SELECTED PROJECT EXPERIENCE

Fauquier - Cedar Lee Middle School
Bealeton, Virginia
Addition to the middle school, including an auxiliary gym, dining room, kitchen, administration expansion, 12-14 classrooms.

International School of Charlottesville
Charlottesville, Virginia
New, wood-framed, private, preschool 12,000 sf.

SALVATORE DIPIETRO
PE, CDT

Profile
Salvatore DiPietro joined Springpoint Structural in 2018.

Sal is a passionate structural designer with a love for historic buildings and their craftsmanship. His education began with a Bachelor's degree in civil engineering from Syracuse University. He moved to Chicago to specialize in building envelope design and structures with a Master's degree in Architectural Engineering from Illinois Institute of Technology. During his studies, Sal completed two internships centered in the existing building field. He worked on high-profile adaptive reuse projects, including the Navy Pier Ferris Wheel replacement, Chicago Apple Flagship Store, and the University of Chicago LASR Building Renovation. His internship experience also includes historic façade restoration, bringing him down the side of many historic stone and terra cotta buildings throughout Chicago.

d. Describe the past safety performance record and current safety capabilities of the firm. Describe the past technical performance history on recent projects of comparable size and complexity, including disclosure of any legal claims of the firm. Provide resumes of the key individuals who will be involved in the project.

Branch has a comprehensive safety program that is managed by our Corporate Safety Director, Danny Minnix. The plan is published and distributed to all of Branch's employees as well as being accessible within the site construction office. Branch will hold a site specific safety training meeting for all who will be performing work on-site. This training will include viewing a video of Branch's safety policies as well as a review of the site specific safety concerns related to worker, pedestrian, vehicle and general public safety.

Upon completion of the training, each individual will receive a project specific hard hat sticker, identifying the individual as approved to perform work on-site. All construction personnel to include subcontractors, owner's representatives, etc... will be required to display their hard hat sticker while on-site. A list of all personnel receiving hard hat stickers will be maintained in the jobsite construction office. Visitors will be requested to sign in at the trailer and will receive safety orientation and a temporary identification tag for safety and security purposes. No one will be allowed on-site without proper training and the identifying hard hat sticker.

Our Superintendent will note safety related issues on the daily logs with any necessary notifications being distributed to the subcontractor's home office. Branch has a zero-tolerance policy with regard to any action that may compromise safety of pedestrians or jobsite personnel.

To ensure pedestrian safety, Branch will utilize fence lines and signage as well as early communication and planning to minimize the risks associated with working on this occupied site. Signage will be used to clearly identify entrances, exits, and construction project boundaries. Project schedules and three week look-ahead schedules will be coordinated with the owner's needs. Clear communication regarding the schedule of construction activities will be utilized throughout the duration of the project. This will ensure that all of the project stakeholders are informed of potentially dangerous activities (i.e. crane operations) in a timely manner.

Our comprehensive safety manual is available upon request and will be readily available at the jobsite at all times. It will additionally be distributed to subcontractors prior to receiving bids for this project. We demand that all subcontractor partners have a clear understanding of our rigid safety standards prior to the commencement of construction.

EXPERIENCE MODIFICATION FACTOR (EMR)

2021 | .76
2020 | .61
2019 | .59
2018 | .59
2017 | .65

BRANCH BUILDS

VMDO

OSHA 300 LOG SUMMARY

YEAR	RECORDABLE	LOST TIME	HOURS
2021	1.1	1.1	184,660
2020	0	0	255,251
2019	0	0	232,312

OSHA CITATIONS LAST 3 YEARS

1/12/21 1926.025.A Housekeeping, cord across hallway in front of exit door; $0

In 2021, Branch was awarded a *National Council for Safety, Occupational Excellence Achievement Award* for excellence in construction safety. This was the 15th year in row Branch has won this award.

e. For each firm or major contractor ($1 million or more) that will be utilized in the project, provide a statement listing all of the firm's prior projects and clients for the past three (3) years with contact information for such clients (names/addresses/ telephone numbers). If a firm has worked on more than ten (10) projects during this period, it may limit the prior project list to ten (10) but shall first include all projects similar in scope and size to the proposed project. Second, it shall include as many of its most recent projects as possible. Each firm or major subcontractor shall be required to submit all performance evaluation reports or other documents in its possession which evaluate the firm's performance during the preceding three (3) years in terms of cost, quality, schedule, safety and other matters relevant to the successful project development, operation, and completion.

Please refer to our A305 certification statement "Completed Projects" in **Tab 5** for this information.

f. Provide the names, addresses and telephone numbers of persons within the firm or consortium of firms who may be contacted for further information.

Catherine Underwood, LEED AP | President & Design-Build Project Manager
Branch Builds, Inc.
5732 Airport Road, NW
Roanoke, VA 24012
(O) 540-989-5215
(M) 540-400-1405
cathyu@branchbuilds.com

Ken Thacker, AIA, LEED AP | Design Principal-in-Charge
VMDO Architects
200 East Market Street
Charlottesville, VA 22902
(O) 434-296-5684
(M) 434-996-0667
kthacker@vmdo.com

g. Provide a current or most recently audited financial statement of the firm or firms and each partner with an equity interest of twenty percent or greater.

Not Applicable

h. Identify any persons known to the proposer who would be obligated to disqualify themselves from participation in any transaction arising from or in connection to the project pursuant to the Virginia State and Local Government Conflict of Interests Act, Chapter 31 (§ 2.2-3100 et seq.) of Title 2.2.

After review of applicable Virginia laws and regulations, specifically Chapter 31 of Title 2.2, to the best of our knowledge, no member of our proposed team has any conflicting interests and no member of our proposed team will participate in a future interest that would conflict in any manner with the performance of services required under this PPEA project for Buchanan County Public Schools.

BRANCH BUILDS

VMDO

AUBURN MIDDLE SCHOOL | PPEA

TAB 2 | PROJECT CHARACTERISTICS

a. Project Description ■
b. MCPS Performed Work
c. Required Approvals & Permits
d. Adverse Impact
e. Assessments
f. Positive Impact
g. Project Schedule ■
h. Risk & Liability Allocation
i. Assumptions & Restrictions
j. Phased Components
k. Miscellaneous Assumptions ■
l. Contingencies
m. Schedule Contingency
n. Applicable Standards

■ *Includes information provided in* ***Volume II - Redacted Proprietary Information***

2 | PROJECT CHARACTERISTICS

a. Provide a description of the project, including the conceptual design. Describe the proposed project in sufficient detail so that type and intent of the project, the location, and the communities that may be affected are clearly identified.

Below is a project summary, but also reference *Tab 2a – Project Description* in the **Volume II, Redacted Proprietary Information** book for a comprehensive presentation of our proprietary design-build solution.

As indicated in the RFP, our team's concept plan for the new PK-5, 500-pupil Clarksville Elementary School retains the existing 2013 classroom wing as well as the stand-alone gymnasium building. The remainder of the school will be demolished. In its place, a new two-story building will be built adjacent to the existing wing, creating a contiguous school of approximately 60,000 Gross Square Feet. Site circulation will be reconfigured to accommodate 17 buses, 70 cars, and service vehicles. Primary and elementary play areas and fields befitting a modern school will be re-built.

Our design has been developed to be highly flexible. Based on our research, the walk-thru, and the information provided in the RFP, we have prepared a plan and vision that meets all programming requirements and one we believe is ideally suited for Mecklenburg County. With that said, our design concept is intentionally adaptable so as to incorporate alterations that MCPS would like to make as the design process progresses. As your Clarksville Elementary School project advocate, and in an effort to provide the ideal solution for Mecklenburg County Public Schools, we made sure our concept design allows the Branch | VMDO team to be agile throughout design and able to shape our concept in accordance with MCPS' desires and objectives.

BRANCH BUILDS

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2 | PROJECT CHARACTERISTICS

b. Identify and fully describe any work to be performed by the School Board.

In order to develop your project in accordance with Mecklenburg County Public Schools' requirements and the intended efficiency of the PPEA process, cooperation and assistance are necessary from the School Board. Fundamentally, what is required is the opportunity to collaborate with you, your designees, and key stakeholders – including members of the community at large – to further refine the educational specifications, site, and buildings to ensure your collective satisfaction. This may take many forms, but often entails visiting new schools to experience the facility in person, observe the relationship between programs and spaces, and witness first-hand the possibilities that abound.

Before entering into an agreement, we respectfully request/suggest that the School Board confirms that you will:

1. Appoint primary representatives and points of contact for all contractual, management, design and construction issues.
2. Designate a committee to collaborate with our team to refine proposed conceptual plans in accordance with budget parameters, program goals, community needs and regulatory requirements.
3. Provide reasonable access to the proposed site without encumbrances or costs.

This project will necessarily require permitting and approvals from federal, state, and local agencies (see section 2c). To the extent that such requires your participation, we are prepared to assist you. However, to the extent appropriate, our team is prepared to handle all such matters directly to lessen the burden on the board.

Collaboration is key, and the School Board's participation is both necessary and welcomed!

BRANCH BUILDS

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c. Include a list of all federal, state, and local permits and approvals required for the project and a schedule for obtaining such permits and approvals.

Our team of key local professionals with commensurate experience will coordinate the permitting and approval process. All required submittals for the site and buildings will be made with the appropriate reviewing agencies. Technical review meetings will be scheduled and held with building departments as appropriate and welcoming.

Mecklenburg County will review and issue permits for the project based on the Virginia Uniform Statewide Building Code. The project must be reviewed and approved at three different stages during the design process: Schematic Design, Preliminary Design, and Final Design. A three-week period should be allowed for each review.

Our team will meet with MCPS or its designated committee for a design kick-off meeting during the Schematic Design Phase for discussion of project goals and any concerns that may arise. The team will then schedule follow-up meetings after each review. These meetings are intended to simplify the review process and allow consensus to be reached before proceeding to each subsequent phase.

Permits and approvals include, but are not limited to the following:

- Virginia Department of Health
- Commonwealth of Virginia Department of Education
- Zoning Permit
- Building, Structural, Mechanical, Electrical, Plumbing and Fire Protection Permits
- Environment Assessment (EA) and/or Environmental Information Document (EID) in accordance with federal NEPA guidelines.
- Virginia DEQ Storm water permitting (SWPP) – permit within 6 months of notice to proceed.
- Erosion and Sediment Control Plan permit within 6 months of notice to proceed.

d. Identify any anticipated adverse social, economic, and environmental impacts of the project. Specify the strategies or actions that will be taken to mitigate known impacts of the project.

While we would like to suggest that no adverse social or economic impacts are anticipated with this project, doing so would be intentionally misleading. We recognize that any time a large development such as the one proposed herein is completed within the context of a community, there exists the potential for adverse impacts. Perhaps a better question relates to how prepared our team and others are to address that potential.

Adverse impacts can arise from any number of sources including the existing site conditions, disruptions for utility connections, traffic inconveniences for street or lane closures and even the possible concerns of surrounding property owners. To the extent a team is already familiar with these and other potential factors, it is better equipped to mitigate or, better yet, avoid their impacts.

To lessen these inconveniences, we will implement a communications plan. Included in the plan will be a site logistics plan to identify the project limits, prepare and send communications to MCPS as well as surrounding neighbors as appropriate as well as offering employment opportunities through subcontractors. We will provide signage that illustrates “what is to come” to generate excitement, and we will appropriately locate signage so everyone can easily, and safely navigate around the site. Particular focus will be on logistics and developing a materials delivery plan that schedules deliveries at ideal times to alleviate congestion on the limited and somewhat narrow rural roadways to the site.

Additionally, strong consideration must be given to various stakeholders and their divergent needs within the greater Mecklenburg County community. We are well versed in organizing stakeholder meetings that allow for productive and meaningful conversations that guide our intentions when designing your Elementary School Improvements. At our stakeholder meetings, the public will be encouraged to not only provide feedback on the actual elementary school facility, but also concerns they may have. These will all be taken into consideration and shape the project as it progresses.

e. Indicate if environmental and/or archaeological assessments have been completed.

At this juncture of the Solicited Conceptual-Stage PPEA process, we have not undertaken any environmental or archaeological assessments.

2 | PROJECT CHARACTERISTICS

f. Identify the projected positive social, economic, environmental and transportation impacts of the project. Such social and economic impacts should include, but are not limited to, community benefits, including the economic impact the project will have on the local community in terms of the amount of additional tax revenue to be generated for the County, the number of jobs generated for County residents, the level of pay and fringe benefits of such jobs, the training opportunities for apprenticeships and other training programs for County residents generated by the project, and the number and value of subcontracts generated for County subcontractors. These impacts should be measured against the comprehensive land use plan of any affected jurisdiction, applicable ordinances and design standards.

Perhaps the most important impact of this proposed Elementary School Improvement project is that this new facility will allow for improved learning environments. Rapid developments in technology have flattened our world, enabling students to think and work globally, seamlessly and collaboratively. The new classroom and learning environments needed by today's students enable a broad reach from fellow students, to the school, the community and the world beyond. A school designed for Next Generation learning will include extended learning areas for problem based, project based and blended learning. These activities require adjacency, connectivity, transparency and maximized flexibility to allow for rapidly evolving programs. Designs should incorporate learning in the architecture itself – learning about the environment but also the curriculum through the many opportunities a building and a school ground offers for teaching.

Positive impacts include:

1. A school facility that will allow MCPS to meet all of your educational goals for Mecklenburg County students.
2. Improved opportunities for learning as a result of a modern, Next Generation educational facility that accommodate changes in teaching curriculums, including personalized learning.
3. A facility designed and constructed to provide a long-lasting structure that is energy efficient with reduced energy and life cycle costs.
4. A facility that will be environmentally sensitive, utilizing state-of-the art design, materials and construction measures.
5. Capacity for future growth.
6. Immediate boost to local economies, both businesses and residences.
7. PPEA procurement, specifically "Design-Build" project delivery will save time, money and offer options that otherwise would unlikely be realized.
8. Community recognition for the quality of education being offered to County employers/ employees.

BRANCH BUILDS

VMDO

g. Identify the proposed schedule for the work on the project, including the estimated time for completion.

Please reference **Volume II, Redacted Proprietary Information**, for our preliminary project schedule.

h. Propose allocation of risk and liability, and assurances for timely completion of the project.

There are always factors that might influence our timeline commitment; they are unforeseen and may include but are not limited to: zoning issues, community concerns, adequate/acceptable financing, regulatory approvals, jurisdictional approvals and support, site conditions beyond reasonable expectations and surrounding infra-structure and its ability to support utility loads, to identify a few.

The Branch | VMDO Design-Build team will assume responsibility and guarantee timely completion for all responsibilities within our control. Mecklenburg County Public Schools assumes no liability whatsoever if the completion schedule is not within the contractual completion time under the terms of the Comprehensive Agreement, except as qualified above.

Our team is ready to assume all performance risks for design and construction. We are prepared to provide guarantees for said work contractually through the Comprehensive Agreement and to assure Mecklenburg County Public Schools and residents that failing to meet our commitment is not without consequential risk.

2 | PROJECT CHARACTERISTICS

i. State assumptions related to ownership, legal liability, law enforcement, and operation of the project and the existence of any restrictions on the School Board's use of the project.

As with any school facility in Mecklenburg County, ownership and operation will remain the responsibility of Mecklenburg County and MCPS, and the responsibility to police those facilities will remain with local law enforcement. To the extent the unique nature of PPEA procurement has the potential to alter those arrangements, clarification is provided below.

Ownership liabilities | We understand Mecklenburg County owns the land necessary for the Elementary School Improvements and associated amenities. At a time to be established by the parties, Mecklenburg County will assume full legal liability for the property and will be wholly responsible for its security and insurance.

During the Design-Build phase of the project, our team will assume those legal liabilities normally and usually associated with our business practices while engaged in the project and on the site. Inclusions of contract documents will be incorporated at the time of the signing of the Comprehensive Agreement.

We assume that all construction will be on property already owned by Mecklenburg County and that adequate water, sewer and electricity is available.

Law Enforcement | As is customary, Mecklenburg County will have, upon occupancy, full responsibility for enforcing any and all laws and restrictions pertaining to the safe and lawful use of the property where new construction is involved. Likewise, Mecklenburg County will have full responsibility for enforcing any and all laws and restrictions pertaining to the safe and lawful use of any portions of the project that remain occupied and used for educational purposes throughout the process.

Restrictions | Our team will not impose any restrictions on the use of the facility unless Mecklenburg County chooses to lease the facility. If the County chooses to lease the facilities, the details of usage would be discussed as part of the leasing agreement. Traditionally, the only restriction on the County's use of the facilities will be those as may be imposed by applicable federal, state and local laws.

Operation | By applying best practices and advanced technologies to the design and construction of your facility, our team will endeavor to reduce the cost of operating and maintaining your facilities. As is customary, upon occupancy, Mecklenburg County will assume the responsibility for all expenses associated with maintenance services for the building and related operations and infrastructure furnishings and equipment, with typical warranties transferred to the County at the time designated in the Comprehensive Agreement. Mecklenburg County will also maintain responsibility for any facilities that remain in use for educational purposes during the project construction.

Miscellaneous | As noted previously in Section 2b, collaboration with Mecklenburg County, MCPS and/or its designees is essential to the success of this project. As we transition from Phase I to Phase II of the PPEA process, other basic assumptions include the ability to further collaborate to refine the scope of the work and clarify the legal and financial responsibilities of all parties as deemed appropriate by Mecklenburg County.

BRANCH BUILDS

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2 | PROJECT CHARACTERISTICS

j. Provide information relative to phased or partial openings of the proposed project.

As indicated in section 2g (provided as part of our **Volume II, Redacted Proprietary Information** submission), our goal is to expedite the completion of the Clarksville Elementary School Additions & Renovations project so that MCPS can occupy the new facility as soon as possible. We anticipate the project will be delivered complete as indicated on the proposed project schedule, without the need for phased openings. We will work cooperatively with MCPS should you desire some form of partial or phased openings.

BRANCH BUILDS

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k. List any other assumptions relied on for the project to be successful.

Please reference **Volume II, Redacted Proprietary Information**, for our miscellaneous assumptions.

2 | PROJECT CHARACTERISTICS

I. List any contingencies that must occur for the project to be successful.

- MCPS agrees that there will be a financial contingency included for design/program modifications that may be necessary during construction.
- MCPS agrees that it is reasonable and necessary that there will be a construction financial contingency included.

BRANCH BUILDS

VMDO

m. IIdentify contingency plans for meeting public needs in the event that all or some of the project is not completed according to the projected schedule.

The Branch | VMDO design-build team is extremely confident in our proposed preliminary schedule given our vast experience successfully delivering complex K-12 projects across the Commonwealth of Virginia. We also look forward to collaborating with MCPS to finalize a schedule that meets all of MCPS' objectives. During the design/preconstruction phase, our professionals will work closely with MCPS to identify solutions to address schedule delays should they ultimately be encountered, providing ample time to develop a plan for this unlikely scenario.

2 | PROJECT CHARACTERISTICS

n. Describe any architectural, building, engineering, or other applicable standards that the proposed project will meet.

The proposed development will meet all applicable codes and ordinances. These include, but are not limited to, the following:

- County's zoning ordinances and design standards – pertaining to setbacks, height restrictions, developed area ratios, and lighting / sound ordinances;
- State and County erosion and sediment control (ESC) and stormwater management (SWM) regulations;
- Accessibility (ADA) regulations;
- Applicable Building Codes

BRANCH BUILDS

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Halifax Middle School

TAB 3 | PROJECT FINANCING

a. Preliminary Estimate | Estimating Methodology ■
b. Development, Financing & Operation Plan
c. Plan Assumptions & Fees
d. Risk Factors
e. Government Resources
f. Revenue Source Terms & Conditions
g. Tax-Exempt Considerations
h. Third-Party Participation
i. School Board Backing
j. Interest Rate Fluctuation
k. Penalties
l. Fee Breakout

■ *Includes information provided in* ***Volume II - Redacted Proprietary Information***

3 | PROJECT FINANCING

a. Provide a preliminary estimate and estimating methodology of the cost of the work by phase, segment, or both.

Please refer to **Volume II, Redacted Proprietary Information**, for our estimating approach and conceptual cost.

b. Submit a plan for the development, financing, and operation of the project showing the anticipated schedule on which funds will be required. Describe the anticipated costs of and proposed sources and uses for such funds including any anticipated debt service costs. The operational plan should include appropriate staffing levels and associated costs. Include supporting due diligence studies, analyses, or reports.

Not Applicable

c. Include a list and discussion of assumptions underlying all major elements of the plan. Assumptions should include all significant fees associated with financing given the recommended financing approach. In addition, complete disclosure of interest rate assumptions should be included. Any ongoing operational fees, if applicable, should also be disclosed as well as any assumptions with regard to increases in such fees.

Not Applicable

d. Identify all proposed risk factors and methods for dealing with these factors. Describe methods and remedies associated with any financial default.

Not applicable with regard to project financing. With that said however, all construction projects bring inherent risks; however, with that stated, we firmly believe the PPEA procurement option is one of the best delivery methods available for design and construction to shift owner risk to the proposing/selected team. NOTE: under this procurement methodology (Design-Build), "if it is reasonably implied or inferred", the PPEA team owns the financial responsibility, i.e. NO CHANGE ORDERS. The most successful way to mitigate risk is through the recognition of issues before they become challenges; to that end, we have assembled a team of professionals that are accomplished in Design-Build, knowledgeable on how to best "site" projects on properties to minimize associated land development costs, understand the nuances associated with jurisdictional approvals and processes, have a track record for developing extraordinary design that results in outstanding educational platforms and who construct buildings that will stand the test of time.

Furthermore, working with a team of professionals who are subject matter experts in their fields is critically important on large-magnitude, transformational community projects. The importance of the project and of building community consensus, particularly in a consolidation situation is such that you should want to have the most experienced K-12 school designers and builder working as your project advocate. Branch and VMDO manage transformational K-12 projects every day, not one every so often, but every day. We are leaders in K-12 design and construction, not just throughout Virginia, but throughout the Mid-Atlantic region.

BRANCH BUILDS

VMDO

3 | PROJECT FINANCING

e. Identify any local, state, or federal resources that the proposer contemplates requesting for the project along with an anticipated schedule of resource requirements. Describe the total commitment, if any, expected from governmental sources: identify each source, and the timing of any anticipated commitment, both one-time and ongoing. Such disclosure should include any direct or indirect guarantees or pledges of the School Board's credit or revenue.

Not Applicable

f. Identify the amounts and the terms and conditions for any revenue sources.

Not Applicable

g. Identify any aspect of the project that could disqualify the project from obtaining tax-exempt financing.

Not Applicable

h. Identify any third parties that the private entity contemplates will provide financing for the project and describe the nature and timing of each such commitment.

Not Applicable

i. Identify the need, if any, for the School Board to provide either its general obligation or moral obligation backing. The underlying assumptions should address this need and/or state that the credit would be via a "Service Agreement," for example. Any debt issuance should be expected to receive an investment grade rating from a nationally recognized statistical rating agency. If the natural rating is not investment grade, the School Board may require the use of credit enhancements.

Not Applicable

j. Outline what impact, if any, a drop in interest rates would have on the ultimate annual project cost. Indicate if there is a method to refinance for cost savings or does the firm only receive benefit of this potential.

Not Applicable

k. Outline the financial penalties, if any, that would result should the School Board wish to terminate a project early or restructure the cash flows for some reason of its own choosing. The firm should be specific on this point.

Not Applicable

l. Provide a breakout of the fees to any underwriting firm(s) and the type of obligation the firm(s) are using with a financing component. Be specific as to tax-exempt, taxable, floating rate, fixed rate, etc.

Not Applicable

BRANCH BUILDS

VMDO

Greene County High School & Middle School
Branch | VMDO Partnership

TAB 4 | PROJECT BENEFIT & COMPATIBILITY

a. Project Beneficiaries
b. Anticipated Support / Opposition
c. Involvement & Communications Plan
d. Economic Development Alignment
e. Project Compatibility
f. SWaM Participation Plan

4 | PROJECT BENEFIT & COMPATIBILITY

a. Identify who will benefit from the project, how they will benefit, and how the project will benefit the overall community, region, or state.

In the spirit of a true partnership with Mecklenburg County Public Schools, our team is committed to ensure this project improves the overall quality of life in Mecklenburg County. An improved Clarksville Elementary School will be a point of pride, gathering, and use for the entire community. More so than any other perhaps, our team will utilize local and regional consultants, subcontractors and vendors whose investment in the community and its long-term well-being is well documented.

The direct beneficiaries include, Mecklenburg County students, parents, teachers and administrators. Time and again we have seen how new, enhanced and modernized educational facilities improve the quality of educational instruction provided in a community, student performance and the community's overall quality of life as a result. Students' futures are greatly impacted with regard to college preparedness and acceptance, work-force readiness and student confidence. In addition to expanded educational programming, the school itself can serve as a teaching tool, through the utilization of wall graphics and signage that celebrate the county's local history and ecology.

Mecklenburg County will also be able to enjoy a facility that can host community-sponsored events after school. This gives social benefit to the community as whole, not just to students and families with children. It also gives the County a competitive edge when attracting a larger proportion of regional working families that seek the best public education for their children. It can also help retain families currently living in the County and encourage their children to remain in the area to start their own families.

The other direct beneficiaries are local and regional businesses. Contractors, subcontractors, tradesmen, manufacturers, suppliers, engineers, inspectors, SWaM firms and other professionals who would provide services for this projects will realize a boost from them. Branch's team witnessed this first hand on our recent $107.5M Montgomery County Public Schools 3-School PPEA project (Auburn HS, Auburn MS & Blacksburg HS).

Specifically, there are numerous benefits from which Mecklenburg County Public Schools, the entire Mecklenburg County community, South Central Virginia and even the Commonwealth as a whole, will benefit.

This project:

1. Will exponentially improve the quality of education offered.
2. Will become a destination of choice for students and teachers alike.
3. Will instill community pride.
4. Will have a positive socioeconomic impact on the Mecklenburg County community (home values and businesses) and the County overall.
5. Will positively influence teaching and learning and improve State-wide rankings.
6. Will provide job opportunities for community residents during construction.
7. Will provide an opportunity to embrace/help small, minority and women-owned businesses.
8. Will offer students a modern classroom learning experience.
9. Will reduce operating expenses.

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4 | PROJECT BENEFIT & COMPATIBILITY

In the end, education is one of the cornerstones of a healthy and growing community. The students, faculty, MCPS and community at large will benefit as a result of this project. The improved Elementary School will create a facility that allows Mecklenburg County Public Schools to provide state-of-the-art learning environments/experiences while also meeting needed space requirements.

BRANCH BUILDS

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b. Identify any anticipated public support or opposition, as well as any anticipated government support or opposition (including that in any affected jurisdiction), for the project.

With any large school construction project there will be proponents (those more focused on the quality of education than other minor inconveniences) and naysayers (those concerned about tax increases or other financial hardships a large project can produce). As we qualified earlier, we serve as information providers and it is incumbent upon our team to create a design and teaching environment that transcends the peripheral issues and gets most citizens excited about what this new high school will mean for their children and grandchildren. The need for enhanced school facilities in Mecklenburg County should be widely acknowledged. Our role will be to serve as an advocate for the project, including utilizing continuous positive community-wide messaging during the design and preconstruction phase to generate excitement through a design that when complete, fulfills the expectations of the majority.

We believe our approach to providing facilities tailor-made for the curricula they will house and the communities they serve, our plans to expedite the delivery of each, and the opportunities for off-setting or otherwise deferring associated costs will give MCPS and the community confidence in selecting a direction for moving forward. Throughout the design process and construction, and in coordination with MCPS, our team will continue to work with all affected groups and individuals to provide up-to-date information to maintain the level of support from and for the administration and community.

As the need for an improved elementary school has grown, two issues should be considered. The need for construction of a new modern high school to provide high quality educational opportunities and the concern about maximizing the utilization of available funds. What is needed is a dynamic way of reaching a middle ground between these two issues. We believe the PPEA process provides that opportunity. We will utilize the PPEA process to develop a high school that will meet the current needs and future requirements of Mecklenburg County Public Schools, at a project cost that will be compatible with the prudent expenditure of available funds.

Our PPEA team will be working and coordinating with many County agencies to obtain the required plan approvals and permits for the project. An integral part of this process is maintaining an open line of communication with MCPS and other County agencies. Communication is the key to addressing the two issues discussed above. The public and end users need to understand the needs of the school system are being met with a reasonable expense of funds. To this end, we anticipate significant support.

We do not foresee any federal support or opposition to the project being proposed herein.

c. Explain the strategy and plans that will be carried out to involve and inform the general public, business community, and governmental agencies in areas affected by the project.

Designing and constructing a new school facility is a once-in-a-generation experience that can bring a community together, and our team is committed to maximizing this opportunity. The Branch | VMDO Design-Build team will incorporate a variety of strategies to involve and inform the public during the design and construction process. We have frequently utilized these strategies with notable success on previous PPEA and K-12 projects across the Commonwealth.

We will invite representatives from Mecklenburg County Public Schools, as well as anyone else MCPS desires, to join us in presenting the Clarksville Elementary School project publicly. These presentations will clearly convey the scope and intent of the project. Visuals and detailed explanations will inform the public with follow-up opportunities for discussion and engagement between the different stakeholders.

Throughout the development of this school improvement, we would like to frequently engage with members of the local community as well as Mecklenburg County's students, teachers, central office staff, and school board members. We believe that through utilizing surveys as well as a mixture of in-person and online meetings, we can make sure all members of the local community have their voice heard. This will generate public support for the project while ensuring that the project is a true representation of Mecklenburg County and its residents.

Our team has utilized several different methods for community engagement in the past, from in-person design sessions, to surveying students and holding virtual public meetings. Given this experience, we have developed an effective and efficient method for facilitating discussion during these meetings.

When it comes to government agencies, we know the importance of including the right people at the right time. This ensures the project follows proper procedures and doesn't get delayed as the project progresses. If the opposite occurs, delays and increased project costs are likely. Because of this, from the onset we typically include local building officials, planning and zoning departments, traffic and engineering agencies and other authorities with jurisdiction. We encourage participation by local first responders when considering the security and life safety features of the design. The insight of those who intervene in emergencies is unparalleled.

Branch, VMDO and our other consultants will always make ourselves available when requested at School Board meetings, Board of Supervisors meetings, and any special meeting called to discuss this exciting opportunity and answer any questions about the PPEA process or anything related to it, including schedule, cost, financing, program, and/or design. We will develop a presentation for members of the School Board and Superintendent to use when talking to local business groups.

We will work closely with MCPS to plan groundbreaking ceremonies, foundation laying ceremonies, and ribbon-cutting ceremonies, as MCPS deems appropriate, to mark significant milestones of the project. These events will allow the community to celebrate the bright future of Mecklenburg County Public Schools and maintain a level of excitement that will carry the project through to a successful completion.

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4 | PROJECT BENEFIT & COMPATIBILITY

Throughout the duration of the project, the Branch | VMDO Design-Build team will not only keep the local elected officials such as members of the School Board and Board of Supervisors informed of the project's progress, but we will also work with County officials to keep the Mecklenburg County community informed through community meetings. Our team will be available to deliver presentations to the community or public officials at any time.

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4 | PROJECT BENEFIT & COMPATIBILITY

d. Describe the anticipated significant benefits to the School Board, community, region or state, including anticipated benefits to the economic, social, environmental, transportation and any other condition of the School Board and whether the project is critical to attracting or maintaining competitive industries and businesses to Mecklenburg County or the surrounding region. Such social and economic impacts should include but are not limited to community benefits, including the economic impact the project will have on the local community in terms of the amount of additional tax revenue to be generated for the School Board, the number of jobs generated for County residents, level of pay and fringe benefits of such jobs, the training opportunities for apprenticeships and other training programs for County residents generated by the project, and the number and value of subcontracts generated for County subcontractors.

This proposed Elementary School Improvement project will improve the quality of education Mecklenburg County is able to offer the community by providing improved learning spaces for students. This improved quality of education is paramount when attracting new businesses and keeping existing businesses. While there are many variables that families use to consider different living areas, the state of the local school system can typically be considered one of the most important. Having a desirable school system with respectable facilities is a driving force when trying to attract working families, which are essential for businesses and communities as a whole to be successful.

While improving the school facilities in Mecklenburg County is not necessarily considered an economic development initiative, this project will have a positive economic impact. There will be hundreds of jobs created for the construction phase. Furthermore, workers associated with the project who do not live in the region will support local hotels, restaurants and other stores.

A skilled workforce is essential to economic development and a strong economy, and a solid educational foundation is critical to developing that skilled workforce. The completion of this modernized school will better equip students for future learning. Likewise, MCPS' commitment to providing quality schools also serves the County well in attracting new companies to the area.

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4 | PROJECT BENEFIT & COMPATIBILITY

e. Describe the project's compatibility with the School Board's and/or affected jurisdiction's local comprehensive plan (including related environmental, land use and facility standards ordinances, where applicable), local infrastructure development plans, transportation plans, the capital improvements plan and capital budget, and/or other government spending plan. Describe the compatibility of the project with local, regional, and state economic development efforts.

The Branch | VMDO Design-Build team firmly believes the project described herein is complementary to the goals of Mecklenburg County Public Schools and Mecklenburg County, and is aligned with the majority, be they School Board members or members of the Board of Supervisors. It is no longer a question of if, but rather, how soon.

Consistent with a robust and viable comprehensive plan, we have proposed herein solutions that address the need for a modern educational facility that will foster life-long learning, promote work-force skills, and ensure a thriving Mecklenburg County for future generations. Further, our plan proposes to deliver the most cost-effective solutions for the improved elementary school.

Lastly, and consistent with responsible long-range plans, our proposal calls for an efficient, cost-effective facility that will not become a burden on the community over time. On the contrary, we believe our design will lessen the burden on the operating budget through efficiencies, allowing more monies to flow to new educational programs, teachers' salaries, or whatever MCPS deems fit. We view this project as a true partnership opportunity with Mecklenburg County Public Schools and the entire community. This proposal embodies the ideas in combining the public and private sectors to create an opportunity to better serve the citizens. Our long-standing commitment to providing an academically stimulating and safe educational environment is evident in this proposal and we are eager to begin work on a project that will help the children – and future children – of Mecklenburg County achieve success.

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4 | PROJECT BENEFIT & COMPATIBILITY

f. Provide a statement setting forth participation efforts that are intended to be undertaken in connection with this project with regard to the following types of businesses: (i) minority-owned businesses, (ii) woman-owned businesses, and (iii) small businesses.

Branch is committed to maximizing participation of Small, Woman-Owned or Minority-Owned trade contractors on our projects and we regularly exceed SWaM participation goals. We utilize a number of internal processes, improved over many years, to help successfully meet client goals. Our means and methods include:

- A Branch database of SWaM registered subcontractors
- Commonwealth of Virginia's "Minority Contractor's Registry"
- Blue Book, "Minority Contractors" section
- Small Business Administration's "National Directory of Women-Owned Construction Firms"
- City of Richmond Office of Minority Business Development's list of minority registered firms

In addition to the above, Branch has developed an outreach/partnering program where we will, under certain conditions, extend special terms, including:

- Waive bonding.
- Accelerate payment(s).
- Initiate two-party checks where credit has not been established, or purchase materials directly.
- Compel our large subcontract partners to contract prescribed percentages from SWaM suppliers or sub-tier subcontractors.
- Place print ads in local and larger metropolitan areas to announce opportunities for minority, women-owned and small business enterprises.
- Send electronic invitations to Branch's database of SWaM contractors.
- Conduct SWaM "open house" meetings to describe project requirements and encourage participation.

Most of Branch's projects that promote SWaM participation (with or without goal requirements) involve our substantial higher education program. Branch has partnered with many of the Commonwealth's most prestigious universities in the past to maximize SWaM participation on our projects. The following graphic illustrates our recent success:

PAST PROJECT SUCCESS		
VA Tech Torgersen Hall Bridge Restoration	Blacksburg, VA	86%
JMU Madison Hall Sky Bridge	Harrisonburg, VA	72%
VMI Science Building Renovations	Lexington, VA	42%
VMI Military & Leadership Field Training Grounds	Lexington, VA	45%
VA Tech West End Market Renovation	Blacksburg, VA	52%
VA Tech Infectious Disease Research Facility (IDRF)	Blacksburg, VA	42%
Radford University Fine Arts	Radford, VA	53%

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St. Paul VI Catholic High School

TAB 5 | AIA QUALIFICATION STATEMENTS

a. Branch Builds, Inc.
b. VMDO

COMMONWEALTH of VIRGINIA
Department of Professional and Occupational Regulation
9960 Mayland Drive, Suite 400, Richmond, VA 23233
Telephone: (804) 367-8500

EXPIRES ON 03-31-2023

NUMBER 2701007213

BOARD FOR CONTRACTORS
CLASS A CONTRACTOR
"CLASSIFICATIONS" CBC RBC

BRANCH BUILDS INC
BRANCH DAFFAN
PO BOX 40051
ROANOKE, VA 24022

Status can be verified at http://www.dpor.virginia.gov

Branch Builds - VA Contractor's License #2701007213-A

COMMONWEALTH of VIRGINIA
Department of Professional and Occupational Regulation
9960 Mayland Drive, Suite 400, Richmond, VA 23233
Telephone: (804) 367-8500

EXPIRES ON 12-31-2023

NUMBER 0405000552

BOARD FOR ARCHITECTS, PROFESSIONAL ENGINEERS, LAND SURVEYORS, CERTIFIED INTERIOR DESIGNERS AND LANDSCAPE ARCHITECTS
PROFESSIONAL CORPORATION REGISTRATION

PROFESSIONS: ARC

VMDO ARCHITECTS P C
200 E. MARKET ST
CHARLOTTESVILLE, VA 22902

Status can be verified at http://www.dpor.virginia.gov

VMDO - VA License #0405000552

AIA® Document A305™ – 2020

Contractor's Qualification Statement

THE PARTIES SHOULD EXECUTE A SEPARATE CONFIDENTIALITY AGREEMENT IF THEY INTEND FOR ANY OF THE INFORMATION IN THIS A305-2020 TO BE HELD CONFIDENTIAL.

SUBMITTED BY:
(Organization name and address.)
Branch Builds, Inc.
3635 Peters Creek Road
Roanoke, Virginia 24019

SUBMITTED TO:
(Organization name and address.)
Mr. Paul Nichols, Division
Superintendent
Mecklenburg Co Public Schools
175 Mayfield Drive
Boydton, Virginia 23917

TYPE OF WORK TYPICALLY PERFORMED
(Indicate the type of work your organization typically performs, such as general contracting, construction manager as constructor services, HVAC contracting, electrical contracting, plumbing contracting, or other.)
General Contracting, Construction Manager

THIS CONTRACTOR'S QUALIFICATION STATEMENT INCLUDES THE FOLLOWING:
(Check all that apply.)

[X] Exhibit A – General Information
[X] Exhibit B – Financial and Performance Information
[X] Exhibit C – Project-Specific Information
[X] Exhibit D – Past Project Experience
[X] Exhibit E – Past Project Experience (Continued)

CONTRACTOR CERTIFICATION
The undersigned certifies under oath that the information provided in this Contractor's Qualification Statement is true and sufficiently complete so as not to be misleading.

Catherine Underwood — July 27, 2022

Organization's Authorized Representative Signature — **Date**

Catherine Underwood, President
Printed Name and Title

NOTARY
State of: Virginia
County of: Roanoke
Signed and sworn to before me this 27th day of July 2022

Jennifer Lynn Slater
Notary Signature

My commission expires: December 31, 2024

JENNIFER LYNN SLATER
Notary Public
Commonwealth of VA
7884822
My Commission Expires December 31, 2024

ADDITIONS AND DELETIONS:
The author of this document has added information needed for its completion. The author may also have revised the text of the original AIA standard form. An *Additions and Deletions Report* that notes added information as well as revisions to the standard form text is available from the author and should be reviewed. A vertical line in the left margin of this document indicates where the author has added necessary information and where the author has added to or deleted from the original AIA text.

This document has important legal consequences. Consultation with an attorney is encouraged with respect to its completion or modification.

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AIA® Document A305™ – 2020 Exhibit A

General Information

This Exhibit is part of the Contractor's Qualification Statement, submitted by Branch Builds, Inc. and dated the 27th day of July in the year 2022
(In words, indicate day, month and year.)

§ A.1 ORGANIZATION
§ A.1.1 Name and Location
§ A.1.1.1 Identify the full legal name of your organization.

Branch Builds, Inc.

§ A.1.1.2 List all other names under which your organization currently does business and, for each name, identify jurisdictions in which it is registered to do business under that trade name.

N/A

§ A.1.1.3 List all prior names under which your organization has operated and, for each name, indicate the date range and jurisdiction in which it was used.

Branch & Associates, Inc. was incorporated in 1986 as a successor to McAlister Construction Company. In 1986, Branch & Associates, Inc. was reorganized as The Branch Group, with Branch & Associates, Inc. becoming a wholly owned subsidiary. Branch & Associates, Inc. underwent a name change in 2019 to become Branch Builds, Inc.

§ A.1.1.4 Identify the address of your organization's principal place of business and list all office locations out of which your organization conducts business. If your organization has multiple offices, you may attach an exhibit or refer to a website.

Principal Office Address: 3635 Peters Creek Road, Roanoke, Virginia 24019
Please reference www.branchbuilds.com for additional locations

§ A.1.2 Legal Status
§ A.1.2.1 Identify the legal status under which your organization does business, such as sole proprietorship, partnership, corporation, limited liability corporation, joint venture, or other.

Corporation

.1 If your organization is a corporation, identify the state in which it is incorporated, the date of incorporation, and its four highest-ranking corporate officers and their titles, as applicable.

Virginia, April 22, 1963.
Please reference attached "Corporate Officers" report

.2 If your organization is a partnership, identify its partners and its date of organization.

N/A

ADDITIONS AND DELETIONS:
The author of this document has added information needed for its completion. The author may also have revised the text of the original AIA standard form. An *Additions and Deletions Report* that notes added information as well as revisions to the standard form text is available from the author and should be reviewed. A vertical line in the left margin of this document indicates where the author has added necessary information and where the author has added to or deleted from the original AIA text.

This document has important legal consequences. Consultation with an attorney is encouraged with respect to its completion or modification.

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User Notes: (1398954618)

.3 If your organization is individually owned, identify its owner and date of organization.

N/A

.4 If the form of your organization is other than those listed above, describe it and identify its individual leaders:

N/A

§ A.1.2.2 Does your organization own, in whole or in part, any other construction-related businesses? If so, identify and describe those businesses and specify percentage of ownership.

No

§ A.1.3 Other Information

§ A.1.3.1 How many years has your organization been in business?

59 years

§ A.1.3.2 How many full-time employees work for your organization?

85 full-time employees

§ A.1.3.3 List your North American Industry Classification System (NAICS) codes and titles. Specify which is your primary NAICS code.

Primary – NAICS 236200 – Nonresidential Building Construction

§ A.1.3.4 Indicate whether your organization is certified as a governmentally recognized special business class, such as a minority business enterprise, woman business enterprise, service disabled veteran owned small business, woman owned small business, small business in a HUBZone, or a small disadvantaged business in the 8(a) Business Development Program. For each, identify the certifying authority and indicate jurisdictions to which such certification applies.

N/A

§ A.2 EXPERIENCE

§ A.2.1 Complete Exhibit D to describe up to four projects, either completed or in progress, that are representative of your organization's experience and capabilities.

Please reference attached "Projects In Progress" and "Projects Completed" reports.

§ A.2.2 State your organization's total dollar value of work currently under contract.

$855,993,675.00

§ A.2.3 Of the amount stated in Section A.2.2, state the dollar value of work that remains to be completed:

$186,797,919.00

§ A.2.4 State your organization's average annual dollar value of construction work performed during the last five years.

$190,027,121.00

§ A.3 CAPABILITIES

§ A.3.1 List the categories of work that your organization typically self-performs.

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User Notes: (1398954618)

When required, rough carpentry tasks such as installation of wood blocking, setting of door frmes, and install of specialty items

§ **A.3.2** Identify qualities, accreditations, services, skills, or personnel that you believe differentiate your organization from others.

Branch Builds, Inc. is a premier Mid-Atlantic construction management, design-build and general contracting firm. From our Roanoke, Virginia headquarters and our Richmond and Herndon, Virginia office, Branch is strategically located to serve markets throughout the Mid-Atlantic region. Since 1963, we have provided professional preconstruction and construction services for private and public-sector clients, utilizing our collaborative partnering methodology across all delivery approaches. Offering clients the accessibility and personalized support of a local firm with the capabilities and resources comparable to a national corporation, Branch has maintained a policy of providing only the highest quality of client-focused services. Branch is Ranked #210 in the prestigious ENR Top 400 list of the largest construction firms in the U.S.

§ **A.3.3** Does your organization provide design collaboration or pre-construction services? If so, describe those services.

Providing client-focused preconstruction services is the cornerstone of Branch Builds' approach to construction management. Utilizing our vast experience and modern technologies, we provide detailed analysis as the design progresses, affording our clients the confidence to make sound decisions. Dedicated to employing continuous and thorough communications with our clients and design partners, we ensure a structured preconstruction process and well-informed project teams. Services include, but are not limited to: plan review & constructability review, budgeting & cost control/GMP development, estimating & forecasting, value analysis & alternative options, BIM technology, MEP coordination, scheduling, site logistics & coordination, SWaM coordination, LEED planning & coordination, safety & environmental protection planning, pre-qualification &selection of subcontractors, procurement & expediting, turnkey vendor management.

§ **A.3.4** Does your organization use building information modeling (BIM)? If so, describe how your organization uses BIM and identify BIM software that your organization regularly uses.

Our firm leads and facilitates the BIM coordination/clash detection process with our MEPFP trade partners. We use Autocad and Revit in conjunction with their trade specific software tools.

§ **A.3.5** Does your organization use a project management information system? If so, identify that system.

Yes. Procore

§ A.4 REFERENCES

§ **A.4.1** Identify three client references:
(Insert name, organization, and contact information)

Travis Pittman, Lancaster County Public Schools, trpittman@lcs.k12.va.us, 804-462-5100
Travis Wolf, Aecom, travis.wolf@aecom.com, 804-646-5938
Gary Lowe, UVA Health System Physicians Group, gel3w@hscmail.mcc.virginia.edu, 434-924-9321

§ **A.4.2** Identify three architect references:
(Insert name, organization, and contact information)

Bryce Powell, VMDO, powell@vmdo.com, 434-409-3046
Joe Habel, RRMM, jhabel@rrmm.com, 804-277-8987
Robert Burns, Commonwealth Architects, rburns@comarchs.com, 804-678-5040

§ **A.4.3** Identify one bank reference:
(Insert name, organization, and contact information)

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User Notes: (1398954618)

Mr. Joshua R. Bradley, Senior VP, Bank of America, 888-801-0091

§ A.4.4 Identify three subcontractor or other trade references:
(Insert name, organization, and contact information)

EMC Company, Bruce Tibbetts, 804-359-9624
Carolina Fire Control, Inc., 704-784-4218
Moore's Electrical & Mechanical Construction, Inc.

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AIA® Document A305™ – 2020 Exhibit B

Financial and Performance Information

This Exhibit is part of the Contractor's Qualification Statement, submitted by Branch Builds, Inc. and dated the 27th day of July in the year 2022
(In words, indicate day, month and year.)

§ B.1 FINANCIAL
§ B.1.1 Federal tax identification number:

54-1393120

§ B.1.2 Attach financial statements for the last three years prepared in accordance with Generally Accepted Accounting Principles, including your organization's latest balance sheet and income statement. Also, indicate the name and contact information of the firm that prepared each financial statement.

Private Organization – Available Upon Request

§ B.1.3 Has your organization, its parent, or a subsidiary, affiliate, or other entity having common ownership or management, been the subject of any bankruptcy proceeding within the last ten years?

No

§ B.1.4 Identify your organization's preferred credit rating agency and identification information.
(Identify rating agency, such as Dun and Bradstreet or Equifax, and insert your organization's identification number or other method of searching your organization's credit rating with such agency.)

Dun & Bradstreet, 18-792-7355, Rating 4A3, Account name: The Branch Group

§ B.2 DISPUTES AND DISCIPLINARY ACTIONS
§ B.2.1 Are there any pending or outstanding judgments, arbitration proceedings, bond claims, or lawsuits against your organization, its parent, or a subsidiary, affiliate, or other entity having common ownership or management, or any of the individuals listed in Exhibit A, Section 1.2, in which the amount in dispute is more than $75,000?
(If the answer is yes, provide an explanation.)

Branch Builds has one current bond claim against defaulted subcontractor, Ronco Mechanical, for non-performance – mediation scheduled for Q2 2022.

Branch Builds has filed insurance claims against River City Roofing and DC Quality Builders for non-performance and defective work on a commercial/residential project in Richmond – mediation with the insurance carriers is expected Q2 2022.

Branch Builds has filed an insurance claim against jeff Warner Land Surveying for a design error resulting in additional work/costs – court date has been set for April 2023.

Branch Builds filed an insurance claim for defective work and repair costs against FSS, a fire sprinkler subcontractor in North Carolina – mediation anticipated for June 2022.

ADDITIONS AND DELETIONS:
The author of this document has added information needed for its completion. The author may also have revised the text of the original AIA standard form. An *Additions and Deletions Report* that notes added information as well as revisions to the standard form text is available from the author and should be reviewed. A vertical line in the left margin of this document indicates where the author has added necessary information and where the author has added to or deleted from the original AIA text.

This document has important legal consequences. Consultation with an attorney is encouraged with respect to its completion or modification.

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§ B.2.2 In the last five years has your organization, its parent, or a subsidiary, affiliate, or other entity having common ownership or management:
(If the answer to any of the questions below is yes, provide an explanation.)

.1 failed to complete work awarded to it?

No

.2 been terminated for any reason except for an owners' convenience?

No

.3 had any judgments, settlements, or awards pertaining to a construction project in which your organization was responsible for more than $75,000?

No

.4 filed any lawsuits or requested arbitration regarding a construction project?

No

§ B.2.3 In the last five years, has your organization, its parent, or a subsidiary, affiliate, or other entity having common ownership or management; or any of the individuals listed in Exhibit A Section 1.2:
(If the answer to any of the questions below is yes, provide an explanation.)

.1 been convicted of, or indicted for, a business-related crime?

No

.2 had any business or professional license subjected to disciplinary action?

No

.3 been penalized or fined by a state or federal environmental agency?

No

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AIA® Document A305™ – 2020 Exhibit C

Project Specific Information

This Exhibit is part of the Contractor's Qualification Statement, submitted by Branch Builds, Inc. and dated the 27th day of July in the year 2022
(In words, indicate day, month and year.)

PROJECT:
(Name and location or address.)

Additions and Renovations to Clarksville Elementary School

CONTRACTOR'S PROJECT OFFICE:
(Identify the office out of which the contractor proposes to perform the work for the Project.)

Branch Builds, Inc.
4490 Cox Road
Glen Allen, Virginia 23060

TYPE OF WORK SOUGHT
(Indicate the type of work you are seeking for this Project, such as general contracting, construction manager as constructor, design-build, HVAC subcontracting, electrical subcontracting, plumbing subcontracting, etc.)

General Contracting

CONFLICT OF INTEREST
Describe any conflict of interest your organization, its parent, or a subsidiary, affiliate, or other entity having common ownership or management, or any of the individuals listed in Exhibit A Section 1.2, may have regarding this Project.

N/A

§ C.1 PERFORMANCE OF THE WORK
§ C.1.1 When was the Contractor's Project Office established?

Roanoke office was established in 1963

§ C.1.2 How many full-time field and office staff are respectively employed at the Contractor's Project Office?

30 field, 25 office. 55 employee-owners in Roanoke Office.

§ C.1.3 List the business license and contractor license or registration numbers for the Contractor's Project Office that pertain to the Project.

Roanoke County Business License: 100000181
Virginia Contractor's License: Class A 2701007213

§ C.1.4 Identify key personnel from your organization who will be meaningfully involved with work on this Project and indicate (1) their position on the Project team, (2) their office

ADDITIONS AND DELETIONS:
The author of this document has added information needed for its completion. The author may also have revised the text of the original AIA standard form. An *Additions and Deletions Report* that notes added information as well as revisions to the standard form text is available from the author and should be reviewed. A vertical line in the left margin of this document indicates where the author has added necessary information and where the author has added to or deleted from the original AIA text.

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location, (3) their expertise and experience, and (4) projects similar to the Project on which they have worked.

Cathy Underwood, Project Executive, Roanoke
Bryan Underwood, Sr Project Manager, Roanoke
Jimmy Kenyon, Sr Superintendent, Roanoke
Jaime English, Preconstruction Manager, Roanoke

Please see Tab 2c – Design-Build Team Experience

§ C.1.5 Identify portions of work that you intend to self-perform on this Project.

None

§ C.1.6 To the extent known, list the subcontractors you intend to use for major portions of work on the Project.

Subcontractors will be determined at the time of project award.

§ C.2 EXPERIENCE RELATED TO THE PROJECT

§ C.2.1 Complete Exhibit D to describe up to four projects performed by the Contractor's Project Office, either completed or in progress, that are relevant to this Project, such as projects in a similar geographic area or of similar project type. If you have already completed Exhibit D, but want to provide further examples of projects that are relevant to this Project, you may complete Exhibit E.

Please see Tab 2c – Design-Build Team Experience

§ C.2.2 State the total dollar value of work currently under contract at the Contractor's Project Office:

$100,020,062.00 for Roanoke office

§ C.2.3 Of the amount stated in Section C.2.2, state the dollar value of work that remains to be completed:

$34,604,701.00 for Roanoke office

§ C.2.4 State the average annual dollar value of construction work performed by the Contractor's Project Office during the last five years.

$56,125,703.00 for Roanoke office

§ C.2.5 List the total number of projects the Contractor's Project Office has completed in the last five years and state the dollar value of the largest contract the Contractor's Project Office has completed during that time.

27 projects; largest value $45,700,000.00

§ C.3 SAFETY PROGRAM AND RECORD

§ C.3.1 Does the Contractor's Project Office have a written safety program?

Yes, we have a written safety program manual plus a formal orientation and ongoing certification program for OSHA 10 and OSHA 30

§ C.3.2 List all safety-related citations and penalties the Contractor's Project Office has received in the last three years.

N/A

§ C.3.3 Attach the Contractor's Project Office's OSHA 300a Summary of Work-Related Injuries and Illnesses form for the last three years.

Please see attached OSHA 2021, 2020, and 2019 logs

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§ C.3.4 Attach a copy of your insurance agent's verification letter for your organization's current workers' compensation experience modification rate and rates for the last three years.
Please see attached EMR history letter and NCCI confirmation.

§ C.4 INSURANCE
§ C.4.1 Attach current certificates of insurance for your commercial general liability policy, umbrella insurance policy, and professional liability insurance policy, if any. Identify deductibles or self-insured retentions for your commercial general liability policy.
Please see attached Certificate of Insurance.

§ C.4.2 If requested, will your organization be able to provide property insurance for the Project written on a builder's risk "all-risks" completed value or equivalent policy form and sufficient to cover the total value of the entire Project on a replacement cost basis?

Yes

§ C.4.3 Does your commercial general liability policy contain any exclusions or restrictions of coverage that are prohibited in AIA Document A101-2017, Exhibit A, Insurance A.3.2.2.2? If so, identify.

Yes. A.3.2.2.29 EIFS exclusion only for wood frame projects

§ C.5 SURETY
§ C.5.1 If requested, will your organization be able to provide a performance and payment bond for this Project?

Yes

§ C.5.2 Surety company name:

Federal Insurance Company and Berkshire Hathaway Insurance Company

§ C.5.3 Surety agent name and contact information:

American Global, LLC, Gerard Leib, Gerard.leib@americanglobal.com

§ C.5.4 Total bonding capacity:

$1.25 billion for The Branch Group as a whole

§ C.5.5 Available bonding capacity as of the date of this qualification statement:

$50,000,000 for The Branch Group as a whole

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AIA® Document A305™ – 2020 Exhibit D

Contractor's Past Project Experience

	1	2	3	4
PROJECT NAME	Please see attached project reports and project information sheets			
PROJECT LOCATION				
PROJECT TYPE				
OWNER				
ARCHITECT				
CONTRACTOR'S PROJECT EXECUTIVE				
KEY PERSONNEL (include titles)				
PROJECT DETAILS	Contract Amount Completion Date % Self-Performed Work	Contract Amount Completion Date % Self-Performed Work	Contract Amount Completion Date % Self-Performed Work	Contract Amount Completion Date % Self-Performed Work
PROJECT DELIVERY METHOD	☐ Design-bid-build ☐ Design-build ☐ CM constructor ☐ CM advisor ☐ Other:	☐ Design-bid-build ☐ Design-build ☐ CM constructor ☐ CM advisor ☐ Other:	☐ Design-bid-build ☐ Design-build ☐ CM constructor ☐ CM advisor ☐ Other:	☐ Design-bid-build ☐ Design-build ☐ CM constructor ☐ CM advisor ☐ Other:
SUSTAINABILITY CERTIFICATIONS				

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AIA® Document A305™ – 2020 Exhibit E

Contractor's Past Project Experience, Continued

	1	2	3	4
PROJECT NAME	Please see attached project reports and project information sheets			
PROJECT LOCATION				
PROJECT TYPE				
OWNER				
ARCHITECT				
CONTRACTOR'S PROJECT EXECUTIVE				
KEY PERSONNEL (include titles)				
PROJECT DETAILS	Contract Amount Completion Date % Self-Performed Work	Contract Amount Completion Date % Self-Performed Work	Contract Amount Completion Date % Self-Performed Work	Contract Amount Completion Date % Self-Performed Work
PROJECT DELIVERY METHOD	☐ Design-bid-build ☐ Design-build ☐ CM constructor ☐ CM advisor ☐ Other:	☐ Design-bid-build ☐ Design-build ☐ CM constructor ☐ CM advisor ☐ Other:	☐ Design-bid-build ☐ Design-build ☐ CM constructor ☐ CM advisor ☐ Other:	☐ Design-bid-build ☐ Design-build ☐ CM constructor ☐ CM advisor ☐ Other:
SUSTAINABILITY CERTIFICATIONS				

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CORPORATE OFFICERS

CATHERINE UNDERWOOD | PRESIDENT, BUSINESS UNIT LEADER, BRANCH BUILDS, INC.

Master and Bachelor Degrees in Biological Systems Engineering from Virginia Polytechnic Institute and State University, Blacksburg, Virginia. Mrs. Underwood is responsible for day-to-day operations of the corporation. She joined Branch in 2000; was named Director of Construction Management in April 2008; was promoted to Vice President in June 2009; and promoted to Senior Vice President in 2019.

TONY C. BROWN | VICE PRESIDENT, ESTIMATING, BRANCH BUILDS, INC.

Bachelor of Science in Building Construction from Virginia Polytechnic Institute and State University, Blacksburg, Virginia. Mr. Brown is responsible for Branch's bidding, negotiating and overall work acquisition efforts, and is seasoned in both conceptual estimating and value engineering associated with pre-construction services involved in bid and negotiated projects. He joined Branch in 1987, and was named Vice President of Estimating in 2001.

ROBERT W. WILLS, MBA, CMA&AA
CHIEF FINANCIAL OFFICER | THE BRANCH GROUP, INC. & BRANCH BUILDS, INC.

Bachelor's Degree in business with a Major in Finance from Texas State University and Master of Business Administration with honors from Regis University. Mr. Wills has 39+ years of experience in Finance, Corporate Tax & Statutory Compliance, Risk & Change Management, as well as mergers and acquisitions. He is responsible for all financial, legal, and strategic planning functions of the Corporation and has been with Branch since 2017.

BERTON AUSTIN | VICE PRESIDENT, BUSINESS OPERATIONS, BRANCH BUILDS, INC.

Bachelor of Science in Mechanical Engineering from Virginia Military Institute. Mr. Austin has 16+ years in numerous industry roles and capacities. He is responsible for ensuring essential business functions are well-designed and implemented consistently throughout Branch Builds. Berton joined Branch in 2018 as our Strategic Projects Director and was promoted to Vice President of Business Operations in October 2019.

PHILIP A. BOLEN MEMORIAL PARK PHASE-II CONCESSIONS AND RESTROOM FACILITIES
Loudoun County, Virginia

Owner:	County of Loudon, Virginia Division of Procurement 1 Harrison Street, S.E. | 4th Floor
Contact:	Kristy Varda | 571-258-3144
Email Address:	Kristy.Varda@loudoun.gov
Architect:	Stantec 3001 Washington Blvd | Suite 500 Arlington, VA 22201
Contact:	Annette McDaniels | 202-471-5000
Email Address:	Annette.mcdaniels@stantec.com
Contract Amount:	$11 Million
Size:	71,000sf
% Complete:	6%
Project Type:	**Design-Bid-Build**
Scheduled Completion:	August 2025

The Philip A. Bolen Memorial Park project includes the construction two restroom buildings, one single-level concession and restroom building, and one two-story concession and restroom building. Additional site improvements include the construction of 24 shade structures, trash enclosusre, and and installation of site utilities to support the new buildings. The project also includes the demolition and removal six existing ELOO buildings.

PROJECTS IN PROGRESS

ROANOKE COLLEGE SCIENCE COMPLEX | Salem, Virginia

Owner:	Roanoke College 221 College Avenue Salem, VA 24153
Contact:	Michael Maxey | 540-375-2200
Architect:	EYP Architects 1000 Potomac Street NW Washington, DC 20007
Contact:	Elissa Kellett | 202-471-5000
Contract Amount:	$50 Million
Size:	150,000sf
% Complete:	Preconstruction
Project Type:	**Design-Build**
Scheduled Completion:	August 2025

This dynamic, Design-Build project includes the remodel of three existing buildings, including an underground connector facility, that currently house the sciences curriculum on Roanoke College's campus. This project also includes the addition of new space to meet the college's evolving science curriculum expansion. The three existing buildings total 105,000sf and include Trexler Hall, Massengill and Life Sciences; the addition is anticipated to increase the overall facility by an additional 45,000sf. Branch is working in partnership with Roanoke College and EYP Architects throughout preconstruction to develop a comprehensive construction plan to deliver this modern, state-of-the-art sciences facility within Roanoke College's budget and scheduling requirements.

PROJECTS IN PROGRESS

FCPS SCHOOL RENOVATION CAPITAL PROJECT – JAMES WOOD HIGH SCHOOL & INDIAN HOLLOW ELEMENTARY SCHOOL | Winchester, Virginia

Owner:	Frederick County Public Schools 1415 Amherst Street Winchester, VA 22601
Contact:	Kevin Kenney | 540-662-3888
Email Address:	kenneyk@fcpsk12.net
Architect:	RRMM Architects 28 Church Avenue Roanoke, VA 24011
Contact:	Ben Motely | 540-344-1212
Email Address:	bmotley@rrmm.com
Contract Amount:	$74 Million
Size:	317,865sf
% Complete:	5%
Project Type:	**CM@Risk**
Scheduled Completion:	May 2024 (IHES) | May 2025 (JWHS)

Frederick County Public Schools selected Branch Builds, for the second project in a row, as the Construction Manager at Risk to provide preconstruction and construction services for the multi-faceted renovations and additions to James Wood High School and Indian Hollow Elementary School. Branch is working in partnership with RRMM Architects to design and safely manage the renovations of both schools while they continue to be occupied during the duration of the work, requiring close coordination with FCPS staff and consideration of its academic calendar.

James Wood High School includes the reworking of the site layout to provide improvements to the vehicular traffic patterns through the site, designated parking areas for visitors, buses, faculty/student parking areas, separate loading dock area, a pick-up/drop-off lane, and stacking areas for cars. The new 39,000sf addition will include a new administration area, guidance and clinic suite, multi-media center, central main entrance, cafeteria, dinning area, and kitchen. The 220,000sf interior renovation will consist of areas of heavy renovation that involve the redesign of existing classroom spaces on both levels. This work will involve significant wall demolition/reconstruction, replacement of all ceilings, floor finishes, doors, frames, HVAC equipment, ductwork, piping, plumbing fixtures, and new LED lighting. All existing exterior windows and doors will also be replaced.

Indian Hollow Elementary School renovation includes site improvements, removal and replacement of the exterior CMU masonry veneer and rigid cavity wall insulation, removal and replacement of all exterior windows/doors, installation of new roofing, skylights, and access control system at exterior doors. Additional phased renovation work will take place on the interior of the existing school. All ceilings/lights will be removed and replaced throughout the building, the entire interior of the building will be painted, new hardware, renovated restrooms, and removal and replacement of the existing mechanical system.

PROJECTS IN PROGRESS

ROBINS & MORTON
BRANCH BUILDS

A Robins & Morton/Branch Builds Joint Venture partnership

CARILION ROANOKE MEMORIAL HOSPITAL EXPANSION | Roanoke, Virginia

Owner:	Carilion Clinic 213 McClanahan Street Roanoke, VA 24014
Contact:	Martin Misicko | 540-981-8834
Architect:	ESa 1033 Demonbreun Street Nashville, TN 37203
Contact:	Sam Burnette | 615-329-9445
Contract Amount:	$400 Million
Size:	895,000sf
% Complete:	25%
Project Type:	**CM@Risk**
Scheduled Completion:	April 2024

Carilion Clinic selected Robins & Morton/Branch Builds as the Construction Manager at Risk to provide preconstruction planning and construction services for the new campus-wide $400 million expansion to Roanoke Memorial Hospital in Roanoke, Virginia. The project is being delivered in a collaborative, team environment and includes a new patient tower to care for emergency and heart patients, a new behavioral health hospital across Jefferson Street and a parking garage and pedestrian skyway to connect it all. The contract value of Branch's Joint Venture partnership position is $130 million.

PROJECTS IN PROGRESS

LANCASTER MIDDLE SCHOOL | Kilmarnock, Virginia

Owner:	Lancaster County Public Schools 2330 Irvington Road Weems, VA 22576
Contact:	Travis Pittman	804-462-5100
Email Address:	trpittman@lcs.k12.va.us
Architect:	VMDO 200 E. Market Street Charlottesville, VA 22902
Contact:	Bryce Powell, AIA	434-296-5684
Email Address:	powell@vmdo.com
Contract Amount:	$11.9 Million
Size:	73,700sf
% Complete:	3%
Project Type:	**Design-Bid-Build**
Scheduled Completion:	October 2023

Branch was the successful low bidder on the renovations and additions to Lancaster Middle School, which represents the first of two projects planned as part of Lancaster County Public Schools (LCPS) Capital Improvement Planning for the next five years. This renovation/addition project to the existing middle also involves a school conversion project – shifting the school from a grades 4-8 configuration to K-6. The work consists of the demolition of a 1960's classroom wing, making way for a 7,700sf addition that houses a new main entrance, administrative suite, and new classrooms. The renovation scope covers 66,000sf of the existing building and entails space reconfiguration, new finishes, ADA upgrades, LED lighting, replacement of the fire alarm and the addition of an automatic sprinkler system. Site work includes a courtyard renovation, new play spaces and reconfiguration of parking, site access and circulation for both the new and renovated facilities as well as an Annex Building, which is being renovated concurrently under separate contract. Branch worked collaboratively with LCPS and VMDO in providing value engineering solutions to bring the project into budget during the challenging, fluctuating market conditions we are currently experiencing in 2022.

PROJECTS IN PROGRESS

THE APARTMENT HOMES AT
CROSSROADS STATION

CROSSROADS STATION APARTMENTS, PHASE III | Fredericksburg, Virginia

Owner:	Crossroads Associates, LLC 101 East Commonwealth Blvd Martinsville, VA 24115
Contact:	Barry Fulcher | 276-656-3250
Email Address:	bfulcher@lestergroup.com
Architect:	Edward H. Winks – James D. Snowa 2119 East Franklin St. Suite 200 Richmond, VA 23223
Contact:	Brent Grizzle | 804-643-6196
Email Address:	bgrizzle@ws-arch.com
Contract Amount:	$33.5 Million
Size:	240,000sf 195 Units
% Complete:	Preconstruction
Project Type:	**Design-Bid-Build**
Scheduled Completion:	September 2023

Branch Builds is pleased to again be working with our repeat client, The Lester Group on Crossroads Station Apartments, Phase 3. The previous two phases have achieved both high occupancy and great reviews in a very short period of time. Branch will construct five new buildings totaling approximately 240,000 gross square feet; five, 4-story apartment buildings. In all, the project creates 195 new wood-framed apartment units.

PROJECTS IN PROGRESS

1435 TOM'S CREEK APARTMENTS | Blacksburg, Virginia

Owner:	TC Partnership LLC 15091 Taylors Mill Place Haymarket, VA 20169
Contact:	Shivon Dosky | 571-969-1328
Architect:	BSB Design, Inc. 220 North Smith Street, Ste 210 Palatine, IL 60067
Contact:	Mike Roach | 847-705-2200
Contract Amount:	$15.5 Million
Size:	97,500sf
% Complete:	8%
Project Type:	**CM@Risk**
Scheduled Completion:	June 2023

The 1435 Tom's Creek Apartments project represents the most recent multi-family residential project Branch has been selected to manage in Blacksburg, Virginia. Awarded the project via collaborative CM@Risk delivery, the project consists of the preconstruction planning and construction of a new 4-story residential apartment building of approximately 97,500sf. The individual apartments include forty-nine (49) 4-bedroom units and four (4) 2-bedroom units and perfectly complement the need for student housing in Blacksburg for Virginia Tech. The project includes all associated site development work and features an environmentally friendly rainwater harvesting system as well as extensive modern amenity features for the residents.

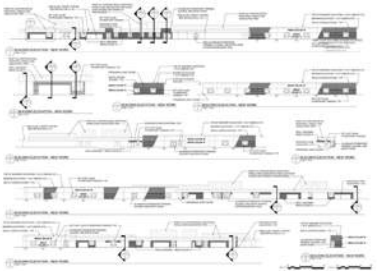
PROJECTS IN PROGRESS

FAIRFAX COUNTY ADULT DETENTION CENTER, PACKAGE A | Fairfax, Virginia

Owner:	Fairfax County DPWES Building Design and Construction Division 12000 Government Center Parkway	Suite 449 Fairfax, VA 22035
Contact:	Tim Danforth	703-324-5133
Email Address:	Timothy.Danforth@fairfaxcounty.gov
Architect:	Hellmuth, Obata & Kassabaum, P.C. 3223 Grace Street, NW Washington, DC 20007
Contact:	Julie Steel	202-944-1458
Email Address:	julie.steele@hok.com
Contract Amount:	$3.8 Million
Size:	1,500sf
% Complete:	66%
Project Type:	**Design-Bid-Build**
Scheduled Completion:	December 2022

This phased occupied renovation project consists of replacement of the existing hot water plants, minor revisions to the existing wet-pipe sprinkler fire protection system, and modifying the exisisting electrical system to support the replaced pumps and boilers in the West building of the Fairfax County Adult Detention Center.

PROJECTS IN PROGRESS



CHRISTIANSBURG ELEMENTARY SCHOOLS 3-SCHOOL PPEA | Christiansburg, Virginia

Owner:	Montgomery County Public Schools 750 Imperial Street Christiansburg, VA 24073
Contact:	Tommy Kranz | 540-382-5100
Architect:	5 Design, LLC 597 Depot Street Christiansburg, VA 24073
Contact:	J.D. Price | 540-230-2619
Contract Amount:	$35 Million
Size:	106,978sf
% Complete:	65%
Project Type:	**Design-Build**
Scheduled Completion:	December 2022

Branch was selected as the design-builder through a competitive public-private partnership procurement process on this multi-faceted project involving the improvements of three separate elementary schools for long-time repeat client, Montgomery County Public Schools. Branch is working in partnership with 5 Design, LLC to design and manage the renovations and additions to existing Christiansburg Primary, Christiansburg Elementary & Belview Elementary Schools. Additions include new classrooms, a new gym, connector corridors, bathrooms, new canopy entrances, parking lots and student drop off areas. Renovations consist of classrooms, administration areas (new paint, flooring, casework and storefront), and minor renovation work in existing gyms. The project requires Branch to safely and unobtrusively work within, and around, the occupied schools utilizing thoughtfully planned, phased scheduling. Christiansburg Primary work consists of 22,800sf of additions and 40,500sf of renovations; Christiansburg Elementary School work consists of 21,250sf of additions and 4,200sf of renovations; Belview Elementary School work consists of 18,828sf of additions and 2,908sf of renovations.

PROJECTS IN PROGRESS

VIRGINIA TECH DIETRICK HALL 1ST FLOOR & PLAZA RENOVATIONS | Blacksburg, Virginia

Owner:	Virginia Polytechnic Institute & State University 90 Sterrett Facilities Complex Blacksburg, VA 24061
Contact:	Kyle White | 540-231-2073
Architect:	Hanbury Evans Wright Vlattas 312 North Main Street Blacksburg, VA 24060
Contact:	Keith Storms | 540-552-1995
Contract Amount:	$8.3 Million
Size:	18,845sf
% Complete:	32%
Project Type:	**Design-Bid-Build**
Scheduled Completion:	November 2022

Having completed an improvement project to the original Virginia Tech Dietrick Hall in 2004, Branch is now managing a new phase of facility modernization of this popular, award-winning university dining facility. Dietrick Hall is a dynamic, multi-use campus dining center that includes an international, marketplace-style dining function. This new first-floor improvement project consists of the interior renovation of the existing Deet's Place, DXpress, and associated public spaces. It also includes the expansion of the first-floor area to enclose exterior space below the second-floor overhang and provides new entrance locations. The newly renovated space will provide enhanced dining venue space as well as expanded student seating and study space. The project also includes the demolition and transformation of the existing Dietrick Plaza into a new "Spirit Plaza" outdoor space. The new plaza includes new hardscape, landscape, outdoor seating and informal recreation space. Additionally, the Hokie Bird statue in Cassell Coliseum will be relocated to a new pedestal located within the enhanced plaza.

PROJECTS IN PROGRESS

VSU MT CARTER RESEARCH BUILDING | Petersburg, Virginia

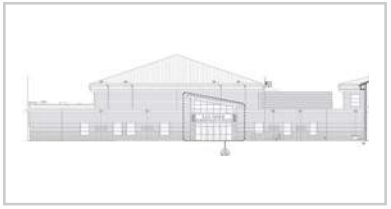
Owner:	Virginia State University 2916 Myster Macklin Street; Box 9414 Virginia State University, VA 23806
Contact:	Debbie Albert | 804-524-5719
Architect:	RRMM Architects 1317 Executive Boulevard, Suite 200 Chesapeake, VA 23320
Contact:	Christopher Smith | 757-213-6429
Contract Amount:	$7.8 Million
Size:	14,500sf
% Complete:	75%
Project Type:	**CM@RISK**
Scheduled Completion:	October 2022

MT Carter is a CM@Risk project for which Branch was selected to provide preconstruction and construction services for constructing a new 14,500sf, 2-story, brick-faced building on the campus of Virginia State University. The building will provide space for critical emerging research in agriculture with specific emphasis on food science, environmental and plant science, animal science, biotechnology, nanotechnology and USDA research. It will be the home to several research and learning laboratories and will include flexible laboratory space, modern food sample preparation rooms, new and waste chemical and gas storage rooms, a full industrial test kitchen with integrated sensory booths for tasting test food and state-of-the-art digital data collection. Combined with the research and laboratory spaces are interactive flexible learning commons, dividable break-out video conference rooms, and a multi-purpose, dividable auditorium with classroom style seating. The building's common space centers include a collaborative learning lobby and adjacent meeting spaces. The building construction consists of a steel structure, steel stud framing with batt and rigid insulation, and is clad in brick veneer with architectural metal wall panels. Outside of the building, an outdoor interactive learning space, with built-in benches and a teaching wall, allows learning to leave the classroom and find a dynamic, inviting setting. The primary interior construction consists of gypsum wall board on light gauge steel stud framing with the majority of the partitions being full height in order to meet lab-specific requirements and meet specific sound attenuation needs. In order to share research from each lab area, a robust and complex audiovisual system will allow for live streaming demonstrations and video documentation. The lab spaces have HVAC for control of temperature and humidity, de-ionized water system, dedicated flexible arm exhaust snorkels, reach-in fume hoods, an acid waste collection system with holding tanks, heavy weight centrifuges, a chemical storage room with acid and flammable waste storage cabinets with dedicated exhaust systems, oxygen, helium, hydrogen, argon, and nitrogen gases. The finishes within the laboratory and food preparation areas are designed with the latest food safety requirements and the food preparation space supports heavy food processing equipment. This building was designed to be Virginia State University's centerpiece, not only for the look of the exterior, but for its function and capabilities. The MT Carter Research Building affords students with cutting edge learning opportunities and faculty with vital research capabilities.

PROJECTS IN PROGRESS

Rendering of George Mason Elementary School

Model of George Mason Elementary School



Elevation of Front Entrance

GEORGE MASON ELEMENTARY SCHOOL | Richmond, Virginia

Owner's Rep:	AECOM 900 E. Broad Street, Suite 602 Richmond, VA 23219
Contact:	Travis Wolf | 540-244-2517
Architect:	RRMM Architects 115 South 15th Street, Suite 202 Richmond, VA 23219
Contact:	Dan Weigand | 804-277-2633
Contract Amount:	$34.6 Million
Size:	100,000sf
% Complete:	99%
Project Type:	**CM@RISK**
Scheduled Completion:	Phases I-III: Completed August 2020 Phase IV: September 2022

Branch was selected as the Construction Manager at Risk by the City of Richmond to manage the preconstruction and construction of a new 100,000sf elementary school to include classrooms, offices, administrative spaces, a commercial cafeteria and dining commons, along with a gymnasium, media center, and library. The building consists of a multi-story steel structure with a brick masonry exterior accented by metal wall panels and aluminum storefront glass. Construction commenced in the Spring of 2019 at the conclusion of Branch's preconstruction services. Construction work was released in a phased approach with Phase I involving site development work which began prior the final building design being completed. Phase II involved the primary construction of the new school. Phase III consisted of the demolition of the existing George Mason Elementary School, and Phase IV consists of demolition work, completion of the remaining ancillary site facilities, recreation fields/spaces and, additional parking.

PROJECTS IN PROGRESS

THE VUE APARTMENTS | Blacksburg, Virginia

Owner:	Vista Holdings, LLC 3169 Commerce Street Blacksburg, VA 24060
Contact:	Jeff Stosser | 540-953-1010
Architect:	BSB Design 1616 Camden Road Suite 250 Charlotte, NC 28203
Contact:	Stuart Wallace | 704-786-2328
Contract Amount:	$33.6 Million
Size:	271,000sf | 206 units
% Complete:	80%
Project Type:	**CM@Risk**
Scheduled Completion:	September 2022

Branch was selected to serve as the construction manager on this vibrant new multi-building apartment complex located in the heart of the Virginia Tech Corporate Research Center (CRC) in Blacksburg, Virginia. The project includes three multi-level residential buildings perched at one of the highest elevations in the CRC which offer spectacular views of the Blue Ridge Mountains, the Virginia Tech Campus and the iconic Lane Stadium. The apartment complex consists of wood framing on concrete slabs with structural block. The façade is designed with smooth panel, cedar lap, and board and baton siding mixing with brick elements to create a unique appearance. The Vue complex sits on approximately eight acres and contains 206 units. Designed with multiple amenity areas, including an in-ground pool, grilling stations, fire pits, and a rooftop terrace complete with grills and fire pit, The Vue will be one of the most sought after residential buildings in Blacksburg. It provides elevated living conditions for families, professionals and graduate students working and learning within The Corporate Research Center. The Vue is within walking distance of a highly regarded day care facility, Blacksburg Airport, walking trails, greenspaces, and disc golf courses. Branch's team of preconstruction professionals worked diligently with the owner and designers during the design to collaboratively develop a project that met all owner project objectives regarding desired density, quality, schedule and budget.

PROJECTS IN PROGRESS

WESTMORELAND HIGH SCHOOL | Montross, Virginia

Owner:	Industrial Development Authority of Westmoreland County, Virginia P.O. Box 1000 Montross, VA 22520
Contact:	Norm Risavi | 804-493-0130
Architect:	Grimm + Parker Architects 11720 Beltsville Drive Suite 600 Calverton, MD 20705
Contact:	Scott Eschbach | 301-595-1000
Contract Amount:	$44.4 Million
Size:	141,090sf
% Complete:	96%
Project Type:	**Design-Bid-Build**
Scheduled Completion:	July 2022

This dynamic project consists of the construction of the new Washington & Lee High School in Montross, Virginia. The highly anticipated new school sits on approximately 36 acres along State Route 3 in the center of Montross, within sight of the existing high school.

The building consists of both steel frame and bearing wall construction with primarily brick veneer on both masonry and metal stud backup. Metal panel exterior finishes are also included. The classroom and administrative areas comprise a 2-story portion of the building, supported by single-story arts and athletic building areas. Interior construction is both masonry and gypsum board on metal studs. Roofing is predominately a low slope, EPDM system on coverboard, rigid insulation on metal decking.

COMPLETED PROJECTS | 2022 - 2017

Reston Fire Station #25 | Reston, Virginia | LEED SILVER

Owner:	Fairfax County DPWES Building Design and Construction Division 12000 Government Center Parkway, Suite 449 Fairfax, VA 22035
Contact:	Mais Almohamid | 571-585-9283
Architect:	LeMay Erickson Willcox 11250 Roger Bacon Dr Reston, VA 20190
Contact:	Katie Atwater | 703-956-5600
Size:	17,150sf
Contract Amount:	$10 Million
Completion Date:	January 2022

Centennial Terrace Apartments | Richmond, Virginia

Owner:	Goodstein Development 220 Lakeville Road Great Neck, New York 11020
Contact	Lenny Bayer | 212-464-7449
Architect:	Walter Parks Architect 313 N. Adams Street Richmond, VA 23220
Contact	Melody Wheeler | 804-644-4761
Size:	49,043sf | 53 units
Contract Amount:	$9.1 Million
Completion Date:	October 2021

The North Star School | Leesburg, Virginia

Owner:	Loudoun County Public Schools 21000 Education Court Ashburn, VA 20148
Contact:	Svain Ulvedal | 571-252-1161
Architect:	Stantec 3001 Washington Blvd, Suite 500 Arlington, VA 22201
Contact:	Matt Waguespack | 703-485-8555
Size:	93,380sf
Contract Amount:	$32 Million
Completion Date:	August 2021

Robert E. Aylor Middle School | Stephens City, Virginia
CM@RISK

Owner:	Frederick County School Board 1415 Amherst Street Winchester, VA 22601
Contact:	Dr. Al Orndorff | 540-662-3888
Architect	RRMM Architects 28 Church Avenue SW Roanoke, VA 24011
Contact:	Ben Motley | 540-344-1212
Size	160,000sf
Contract Amount	$41.1 Million
Completion Date	July 2021

Magnolia Green Apartments | CM@Risk | Moseley, Virginia

Owner:	Magnolia Green Development Partners 7006 Silverthread Drive Moseley, VA 23120
Contact:	Nick Wexler | 302-226-1994
Architect:	Poole & Poole Architecture 4240 Park Place Court Glen Allen, VA 23060
Contact:	Fred Legates | 804-225-0215
Size	248 Units
Contract Amount	$31 Million
Completion Date	March 2021

VMI - Post Infrastructure | CM@Risk | Lexington, Virginia

Owner:	Virginia Military Institute 320 South Institute Hill Lexington, VA 2445
Contact:	Col. Dale Brown | 540-464-7697
Architect:	Wiley Wilson 127 Nationwide Drive Lynchburg, VA 24502
Contact:	Stephen A. Bowman, PE I 434-455-3229
Size:	Work consists of: building renovation, Police Station, utility & infrastructure upgrades, wall repair, bridge replacement
Contract Amount:	$27.7 Million
Completion Date:	February 2021

Virginia Tech Student Athletic Performance Center
Blacksburg, Virginia | LEED GOLD

Owner:	Virginia Tech 90 Sterrett Facilities Complex Blacksburg, VA 24061
Contact:	Todd Shelton | 540-231-4076
Architect:	Hanbury Evans Wright Vlattas + Company 312 North Main Street Blacksburg, VA 24060
Contact:	Anna Carpenter | 540-552-1995
Size:	24,890sf
Contract Amount:	$16.5 Million
Completion Date:	December 2020

Prince William - Manassas Regional Adult Detention Center
Manassas, Virginia

Owner:	Prince William County, Virginia 4361 Ridgewood Center Drive Prince William, VA 22192
Contact:	Karen Fitzgibbon | 703-792-6698
Architect:	Hellmuth, Obata + Kassabaum, P.C (HOK) 3223 Grace Street, NW Washington, DC 20007
Contact:	Robert Karamitos | 202-944-1505
Size:	113,540sf Renovations 48,040sf Additions
Contract Amount:	$45.7 Million
Completion Date:	November 2020

COMPLETED PROJECTS | 2022 - 2017

King George Middle School Additions and Renovations
King George, Virginia

Owner:	King George County Schools 9100 St. Anthonys Road King George, VA 22485
Contact:	Dr. Robert Benson | 540-775-5833
Architect:	RRMM 1317 Exectuive Boulevard, Suite 200 Chesapeake, VA 23320
Contact:	Jeffrey Harris | 757-622-2828
Size:	113,540sf Renovations 48,040sf Additions
Contract Amount:	$18 Million
Completion Date:	November 2020

Park 37 Apartments | CM@RISK | Blacksburg, Virginia

Owner:	Green Valley, LLC 1520 North Main Street, Suite 201 Blacksburg, VA 24060
Contact:	Ben Price | 540-605-1105
Architect:	BSB Design 1616 Camden Road, Suite 250 Charlotte, NC 28203
Contact:	Nicholas Faulk | 704-786-23280
Size:	105,022sf
Contract Amount:	$13.8 Million
Completion Date:	September 2020

Pulaski County Middle School | Pulaski, Virginia

Owner:	Pulaski County Public Schools 202 North Washington Avenue Pulaski, VA 24301
Contact:	Kevin Siers | 540-994-2550
Architect:	RRMM 28 Church Avenue, SW Roanoke, VA 24011
Contact:	Ben Motley | 540-344-1212
Size:	168,989sf
Contract Amount:	$37.1 Million
Completion Date:	August 2020

Loudon County Public Safety Firing Range
Leesburg, Virginia

Owner:	Loudoun County One Harrison Street SE, 4th Floor Leesburg, VA 20178
Contact:	Tim Danforth | 703-324-5800
Architect:	Clark-Nexsen 213 Jefferson Street, Suite 1011 Roanoke, VA 24011
Contact:	John Shields | 703-839-7516
Size:	61,000sf
Contract Amount:	$21.3 Million
Completion Date:	June 2020

Crossroads Station, Phase I & II | Fredericksburg, Virginia | CM@RISK

Owner:	Lester Development Corporation 101 E. Commonwealth Blvd., Martinsville, VA 24115
Contact:	Barry D. Fulcher | 276-656-3250
Architect:	Edward H. Winks – James D. Snowa 2119 East Franklin Street, Suite 200 Richmond, VA 23223
Contact:	Brent Grizzle | 804-643-6196
Size:	228,842sf
Contract Amount:	$20.3 Million
Completion Date	May 2020

Woolen Mills Adaptive Re-Use | CM@RISK
Charlottesville, Virginia

Owner:	Woolen Mills Redevelopment 2100 East Market Street Charlottesville, VA 22902
Contact:	Brian Roy | 434-996-3904
Architect:	3North 201 W 7th Street Richmond, VA 23224
Contact:	Katie Harrigan | 804-232-8900
Size:	100,000sf
Contract Amount:	$15 Million
Completion Date:	May 2020

Radford University Reed & Curie Halls | CM@RISK
Radford, Virginia | LEED GOLD

Owner:	Radford University 501 Stockton Street Radford, VA 24142
Contact:	Mike Biscotte | 540-831-7817
Architect:	CannonDesign 1560 Wilson Boulevard, Suite 200 Arlington, VA 22209
Contact:	Stephen Stinnette | 703-907-2300
Size:	76,000sf
Contract Amount:	$23.5 Million
Completion Date:	February 2020

RCC Aquatics Renovation | Reston, Virginia

Owner:	County of Fairfax 12000 Government Center Pkwy Ste Fairfax, VA 22035
Contact:	Karen Davis | 703-777-0394
Architect:	RRMM Lukmire Architects 2700 South Quincy Street, Suite 300 Arlington, VA 22206
Contact:	Keith Leonard | 703-998-0101
Size:	13,300sf
Contract Amount:	$4.5 Million
Completion Date:	October 2019

COMPLETED PROJECTS | 2022 - 2017

Lewinsville Intergenerational Center | Fairfax, Virginia
LEED SILVER

Owner:	Fairfax County DPWES 12000 Government Center Pkwy Suite 449, Fairfax, VA 22035
Contact:	Tim Danforth | 703-324-5800
Architect:	Grimm & Parker 8609 Westwood Center DR, Suite 425 Tysons, VA 22182
Contact:	David Whale | 703-839-7516
Size:	32,000sf
Contract Amount:	$10.5 Million
Completion Date:	April 2019

VWCC New Stem Building | CM@RISK
Roanoke, Virginia

Owner:	Virginia Western Community College Business Science Building | M230 Roanoke, VA 24015
Contact:	Robert Sandel | 540-857-8922
Architect:	SFCS 305 South Jefferson Street Roanoke, VA 24011
Contact:	Brenda D. Landes I 540-344-6664
Size:	72,000sf
Contract Amount:	$24 Million
Completion Date:	July 2019

Greene County HS & MS Improvements | CM@RISK
Stanardsville, Virginia

Owner:	Greene County Public Schools 40 Celt Road Stanardsville, VA 22973
Contact:	Brian Huber | 540-560-8858
Architect:	VMDO 200 E. Market St. Charlottesville, VA 22902
Contact:	Bryce Powell | 434-409-3046
Size:	62,000sf
Contract Amount:	$24.2 Million
Completion Date:	July 2019

Virginia Tech Academic Buildings Renovations
Blacksburg, Virginia | LEED SILVER

Owner:	Virginia Polytechnic Institute & State University 90 Sterrett Facilities Complex Blacksburg, VA 24061
Contact:	Joe Hoeflein | 540-231-3689
Architect:	Glave & Holmes 2101 East Main Street Richmond, VA 23223
Contact:	Jennifer Wimmer | 804-649-9303
Size:	69,000sf
Contract Amount:	$26.7 Million
Completion Date:	May 2019

Moore's Lake Apartments | Chester, Virginia | LEED SILVER

Owner:	Moore's Lake Apartments, LLC 2903-A Boulevard Colonial Heights, VA 23834
Contact:	George Emerson | 804-419-2282
Architect:	Poole & Poole Architecture 4240 Park Place Court Glen Allen, VA 23060
Contact:	Fred Legates | 804-225-0215
Size:	279,455sf | 200 Units
Contract Amount:	$29.3 Million
Completion Date:	May 2019

AEP Parking Deck | Roanoke, Virginia

Owner:	American Electric Power Service P.O. Box 2021 Roanoke, VA 24022
Contact:	Jerry Waller | 540-985-2670
Architect:	Balzer and Associates, Inc. 1208 Corporate Circle Roanoke, VA 24018
Contact:	James Ruhland III | 540-772-9580
Size:	90,375sf
Contract Amount:	$5 Million
Completion Date:	March 2019

City of Fairfax Firing Range | Fairfax, Virginia

Owner:	City of Fairfax 10455 Armstrong Street, Suite 200 Fairfax, VA 22030
Contact:	Rick Thoesen | 703-591-5727
Architect:	Hammel, Green and Abrahamson, Inc. 44 Canal Center Plaza, Suite 100 Alexandria, VA, 22314
Contact:	Sonja Shields | 703-836-7766
Size:	11,000sf
Contract Amount:	$4 Million
Completion Date:	December 2018

JMU West Campus Parking Deck
Harrisonburg, Virginia | CM@RISK

Owner:	James Madison University 181 Patterson Street, MSC 7008 Harrisonburg, VA 22807
Contact:	Glenn Wayland | 804-568-6345
Architect:	Baskervill 101 S. 15th St. Suite 200 Richmond, VA 23219
Contact:	Robert J. Clark | 804-343-1010
Size:	685 Parking Spaces
Contract Amount	$11.7 Million
Completion Date:	September 2018

COMPLETED PROJECTS | 2022 - 2017

Fairfax Connector Reston/Herndon Bus Garage
Herndon, Virginia | LEED SILVER

Owner:	The Board of Supervisors | Fairfax, VA Department of Public Works and Environmental Services 12000 Government Center Pkwy Suite 449 Fairfax, VA 22035
Contact:	Christopher Kohr | 703-324-5076
Architect:	Michael Baker Jr, Inc. 3601 Eisenhower Ave, Suite 200 Alexandria, VA, 22304
Contact:	Brian Ward I 703-960-8800
Size:	24,140sf
Contract Amount:	$8.3 Million
Completion Date:	September 2018

Providence Middle School Additions & Renovations
North Chesterfield, Virginia

Owner:	Chesterfield County Schools 10045 Courthouse Road Chesterfield, VA 23832
Contact:	Agur Davis | 804-751-2313
Architect:	Moseley Architects 3200 Norfolk St. | Richmond, VA 23230
Contact:	Bob Baxter I 804-794-7555
Size:	134,300sf
Contract Amount:	$22.7 Million
Completion Date:	September 2018

Virginia Tech Rector Field House Improvements
Blacksburg, Virginia | CM@RISK

Owner:	Virginia Polytechnic Institute & State University 90 Sterrett Facilities Complex Blacksburg, VA 24061
Contact:	Todd Shelton | 540-231-6411
Architect:	Cannon Design 2170 Whitehaven Rd Grand Island, NY 14072
Contact:	Matthew Dates | 716-774-3385
Size:	110,900sf
Contract Amount:	$14.8 Million
Completion Date:	April 2018

South Lakes High School Addition | Reston, Virginia

Owner:	Fairfax County Public Schools 8115 Gatehouse Road Falls Church, VA 22042
Contact:	Dave Campbell | 571-423-2230
Architect:	Moseley Architects 8001 Braddock Road, Suite 400 Springfield, VA 22151
Contact:	Bob Baxter | 703-426-9057
Size:	38,959sf
Contract Amount	$8.3 Million
Completion Date:	December 2017

Magnolia Green Clubhouse | Moseley, Virginia

Owner:	6801 Woolridge Road | Moseley LP 6700 Otterdale Road Moseley, VA 23120
Contact:	Tom Page | 770-757-6581
Architect:	Rafael A. Garcia & Associates 6000 Lake Forest Drive, Suite 450 Atlanta, Georgia 30328
Contact:	Tony C. Paladino | 404-843-0011
Size:	17,738sf
Contract Amount:	$4.5 Million
Completion Date:	October 2017

Deschutes Tasting Room, Renovations
Roanoke, Virginia

Owner:	Deschutes Brewery 901 SW Simpson Avenue Bend, Oregon 97702
Contact:	Craig Mavis, Engineering Manager 541-385-8606
Architect:	Balzer and Associates, Inc. 1208 Corporate Circle Roanoke, VA 24018
Contact:	James Ruhland III | 540-772-9580
Size:	5,018sf
Contract Amount:	$310,000
Completion Date:	October 2017

Mullen Elementary School Renovation | Manassas, Virginia

Owner:	The County School Board of Prince William PO Box 389, Manassas, VA 20108
Contact:	Laurie Baber | 703-791-8717
Architect:	Blitz Assoc, PA / Latham Architects Inc. 4800 Montgomery Avenue, Suite 203 Bethesda, MD 20814
Contact:	James Latham I 301-656-8665
Size:	66,000sf
Contract Amount:	$5.2 Million
Completion Date:	September 2017

Mountain View High School Additions & Renovations
Stafford, VA

Owner:	Stafford County Public Schools 31 Stafford Ave. Stafford, VA 22554
Contact:	Scott Horan | 540-658-6000
Architect:	Stantec Architecture, Inc. 609 East Market Street, Suite 202, Charlottesville, VA 22902
Contact	Scott Kyle | 434-295-8200
Size:	22,800sf
Contract Amount:	$7 Million
Completion Date:	August 2017

COMPLETED PROJECTS | 2022 - 2017

West Ox Bus Operations Center, Exp PH II | Fairfax, Virginia
LEED GOLD

Owner:	Fairfax County DPWES 12000 Government Center Parkway Suite 449 | Fairfax, VA 22035
Contact:	Hanif Drzal | 703-324-1633
Architect:	Michael Baker Jr., Inc. 3601 Eisenhower Ave, Ste 200 Alexandria, VA, 22304
Contact:	Mike Robb | 703-317-6550
Size:	86,000sf
Contract Amount:	$11.5 Million
Completion Date:	October 2017

Tysons Pimmit Regional Library | Fairfax County, Virginia
LEED SILVER

Owner:	Fairfax County DPWES 12000 Government Center Pkwy, Suite 449 Fairfax, Virginia 22035
Contact:	Padam Sethi | 703-324-1633
Architect:	Ritter Norton Architects 814 King Street, Third Floor Alexandria, VA 22314
Contact:	James Ritter | 703-548-4405
Size:	58,920sf
Contract Amount:	$3.6 Million
Completion Date:	July 2017

Ashleigh at Lansdowne Assisted Living Community
Leesburg, Virginia

Owner:	Medical Facilities of America 2917 Penn Forest Blvd. Roanoke, VA 24018
Contact:	Andy Kelderhouse | 540-774-4415
Architect:	Gaylen Howard Laing Architect 1300 W. Randol Mill Road Suite 100 Arlington, TX 76012
Contact:	Gaylen Laing | 817-801-7200
Size:	108,000sf
Contract Amount:	$17.2 Million
Completion Date:	February 2017

OSHA's Form 300A (Rev 01/2004)

Summary of Work-Related Injuries and Illnesses

Year 2019
U. S. Department of Labor
Occupational Safety and Health Administration

Form approved OMB no. 1218-0176

All establishments covered by Part 1904 must complete this Summary page, even if no work-related injuries or illnesses occurred during the year. Remember to review the Log to verify that the entries are complete and accurate before completing this summary.

Using the Log, count the individual entries you made for each category. Then write the totals below, making sure you've added the entries from every page of the Log. If you had no cases, write "0."

Employees, former employees, and their representatives have the right to review the OSHA Form 300 in its entirety. They also have limited access to the OSHA Form 301 or its equivalent. See 29 CFR Part 1904.35, in OSHA's recordkeeping rule, for further details on the access provisions for these forms.

Number of Cases

Total number of deaths	Total number of cases with days away from work	Total number of cases with job transfer or restriction	Total number of other recordable cases
0	0	0	0
(G)	(H)	(I)	(J)

Number of Days

Total number of days away from work	Total number of days of job transfer or restriction
0	0
(K)	(L)

Injury and Illness Types

Total number of...	(M)		
(1) Injuries	0	(4) Poisonings	0
		(5) Hearing loss	0
(2) Skin disorders	0	(6) All other illnesses	0
(3) Respiratory conditions	0		

Post this Summary page from February 1 to April 30 of the year following the year covered by the form.

Public reporting burden for this collection of information is estimated to average 50 minutes per response, including time to review the instructions, search and gather the data needed, and complete and review the collection of information. Persons are not required to respond to the collection of information unless it displays a currently valid OMB control number. If you have any comments about these estimates or any other aspects of this data collection, contact: US Department of Labor, OSHA Office of Statistics, Room N-3644, 200 Constitution Avenue, NW, Washington, DC 20210. Do not send the completed forms to this office.

Establishment information

Your establishment name Branch Builds, Inc.

Street 5732 Airport Rd

City: Roanoke State: VA ZIP 24012

Industry description (*e.g., Manufacture of motor truck trailers*)

Commercial Building Contractor

Standard Industrial Classification (SIC), if known (e.g., 3715)

1 5 4 2

OR

North American Industrial Classification (NAICS), if known (e.g., 336212)

2 3 6 2 2 0

Employment information (If you don't have these figures, see the Worksheet on the back of the Original Form 300A to estimate.)

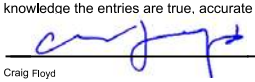
Annual average number of employees: 112

Total hours worked by all employees last year: 232,312

Sign here

Knowingly falsifying this document may result in a fine.

I certify that I have examined this document and that to the best of my knowledge the entries are true, accurate and complete.



Craig Floyd — President

Craig Floyd — Title

540-989-5215 — 01/13/20

Phone — Date

OSHA's Form 300A (Rev 01/2004)

Summary of Work-Related Injuries and Illnesses

Year 2020
U. S. Department of Labor
Occupational Safety and Health Administration

Form approved OMB no. 1218-0176

All establishments covered by Part 1904 must complete this Summary page, even if no work-related injuries or illnesses occurred during the year. Remember to review the Log to verify that the entries are complete and accurate before completing this summary.

Using the Log, count the individual entries you made for each category. Then write the totals below, making sure you've added the entries from every page of the Log. If you had no cases, write "0."

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Number of Cases

Total number of deaths	Total number of cases with days away from work	Total number of cases with job transfer or restriction	Total number of other recordable cases
0	0	0	0
(G)	(H)	(I)	(J)

Number of Days

Total number of days away from work	Total number of days of job transfer or restriction
0	0
(K)	(L)

Injury and Illness Types

Total number of...	(M)		
(1) Injuries	0	(4) Poisonings	0
		(5) Hearing loss	0
(2) Skin disorders	0	(6) All other illnesses	0
(3) Respiratory conditions	0		

Post this Summary page from February 1 to April 30 of the year following the year covered by the form.

Public reporting burden for this collection of information is estimated to average 50 minutes per response, including time to review the instructions, search and gather the data needed, and complete and review the collection of information. Persons are not required to respond to the collection of information unless it displays a currently valid OMB control number. If you have any comments about these estimates or any other aspects of this data collection, contact: US Department of Labor, OSHA Office of Statistics, Room N-3644, 200 Constitution Avenue, NW, Washington, DC 20210. Do not send the completed forms to this office.

Establishment information

Your establishment name Branch Builds, Inc.

Street 5737 Airport Road

City: Roanoke State: VA ZIP 24012

Industry description (*e.g., Manufacture of motor truck trailers*)

Nonresidential Building Constr

Standard Industrial Classification (SIC), if known (e.g., 3715)

1 5 4 2

OR

North American Industrial Classification (NAICS), if known (e.g., 336212)

2 3 6 2 0 0

Employment information (If you don't have these figures, see the Worksheet on the back of the Original Form 300A to estimate.)

Annual average number of employees 123

Total hours worked by all employees last year 255,251

Sign here

Knowingly falsifying this document may result in a fine.

I certify that I have examined this document and that to the best of my knowledge the entries are true, accurate and complete.

Cathy K. Underwood — President

Cathy Underwood — Title

540-989-5215 — 01/13/21

Phone — Date

OSHA's Form 300A (Rev 01/2004)

Summary of Work-Related Injuries and Illnesses

Year 2021
U. S. Department of Labor
Occupational Safety and Health Administration
Form approved OMB no. 1218-0176

All establishments covered by Part 1904 must complete this Summary page, even if no work-related injuries or illnesses occurred during the year. Remember to review the Log to verify that the entries are complete and accurate before completing this summary.

Using the Log, count the individual entries you made for each category. Then write the totals below, making sure you've added the entries from every page of the Log. If you had no cases, write "0."

Employees, former employees, and their representatives have the right to review the OSHA Form 300 in its entirety. They also have limited access to the OSHA Form 301 or its equivalent. See 29 CFR Part 1904.35, in OSHA's recordkeeping rule, for further details on the access provisions for these forms.

Number of Cases

Total number of deaths	Total number of cases with days away from work	Total number of cases with job transfer or restriction	Total number of other recordable cases
0	1	0	0
(G)	(H)	(I)	(J)

Number of Days

Total number of days away from work	Total number of days of job transfer or restriction
13	60
(K)	(L)

Injury and Illness Types

Total number of...

(M)

(1) Injuries	1	(4) Poisonings	0
		(5) Hearing loss	0
(2) Skin disorders	0	(6) All other illnesses	0
(3) Respiratory conditions	0		

Post this Summary page from February 1 to April 30 of the year following the year covered by the form.

Public reporting burden for this collection of information is estimated to average 50 minutes per response, including time to review the instructions, search and gather the data needed, and complete and review the collection of information. Persons are not required to respond to the collection of information unless it displays a currently valid OMB control number. If you have any comments about these estimates or any other aspects of this data collection, contact: US Department of Labor, OSHA Office of Statistics, Room N-3644, 200 Constitution Avenue, NW, Washington, DC 20210. Do not send the completed forms to this office.

Establishment information

Your establishment name: Branch Builds, Inc.

Street: 5737 Airport Road

City: Roanoke State: VA ZIP: 24012

Industry description (e.g., *Manufacture of motor truck trailers*)

Nonresidentisl Bldg Constructi

Standard Industrial Classification (SIC), if known (e.g., 3715)

OR

North American Industrial Classification (NAICS), if known (e.g., 336212)

2 3 6 2 0 0

Employment information (If you don't have these figures, see the Worksheet on the back of the Original Form 300A to estimate.)

Annual average number of employees: 88

Total hours worked by all employees last year: 184,660

Sign here

Knowingly falsifying this document may result in a fine.

I certify that I have examined this document and that to the best of my knowledge the entries are true, accurate and complete.

Cathy Underwood — President

Cathy Underwood — Title

540-989-5215 — 01/24/22

Phone — Date

1301 Old Graves Mill Road
Lynchburg , VA 24502
Tel (434) 832-2100
Fax (434) 832-2296

Employee Owned
SCOTT
Est. 1864

Lynchburg
Richmond
Roanoke
Charlotte
Greensboro
Greenville
Raleigh
Knoxville
Nashville

March 29, 2021

Re: Branch Builds, Inc.
NCCI Experience Modification Rate History

To Whom It May Concern:

This is to certify that our company represents the above referenced subsidiary of The Branch Group, Inc. and their Experience Modification Rates (EMR) for the current and previous five years are as follows:

4/1/2021	.76
4/1/2020	.61
4/1/2019	.59
4/1/2018	.59
4/1/2017	.65
4/1/2016	.70

Please advise should you have any questions or require additional documentation.

Sincerely,

Melanie Hackworth, CIC, CRM, CRIS
Senior Account Analyst

WORKERS COMPENSATION EXPERIENCE RATING

Risk Name: THE BRANCH GROUP INC Risk ID: 917350027

Rating Effective Date: 04/01/2022 Production Date: 01/03/2022 State: INTERSTATE

State	Wt	SRP	Exp Excess Losses	Expected Losses	Exp Prim Losses	Act Exc Losses	Ballast	Act Inc Losses	Act Prim Losses
DC	.39	0	0	0	0	0	150,600	0	0
NC	.41	0	168,557	224,357	55,800	521,789	150,150	611,192	89,403
TN	.47	0	0	0	0	0	141,950	0	0
VA	.41	0	729,989	966,365	236,376	523,348	145,625	738,560	215,212
WV	.48	0	521	805	284	0	137,700	0	0

(A) Wt	(B)	(C) Exp Excess Losses (D - E)	(D) Expected Losses	(E) Exp Prim Losses	(F) Act Exc Losses (H - I)	(G) Ballast	(H) Act Inc Losses	(I) Act Prim Losses
.41		899,067	1,191,527	292,460	1,014,112	146,472	1,253,493	239,381

	Primary Losses	Stabilizing Value	Ratable Excess	Totals
	(I)	C * (1 - A) + G	(A) * (F)	(J)
Actual	239,381	676,922	415,786	1,332,089
	(E)	C * (1 - A) + G	(A) * (C)	(K)
Expected	292,460	676,922	368,617	1,337,999

	ARAP	FLARAP	SARAP	MAARAP	Exp Mod
					(J) / (K)
Factors	1.00				1.00

REVISED RATING
RATING REFLECTS A DECREASE OF 70% MEDICAL ONLY PRIMARY AND EXCESS LOSS DOLLARS WHERE ERA IS APPLIED.
THE ARAP FACTOR SHOWN IS FOR THOSE STATES CONTAINED ON THIS RATING THAT HAVE APPROVED THE ARAP PROGRAM AND IS CALCULATED BASED ON THE STATE WITH THE HIGHEST APPROVED MAXIMUM ARAP SURCHARGE. THE MAXIMUM ARAP SURCHARGE MAY VARY BY STATE. PLEASE REFER TO EACH STATE'S APPROVED RULES FOR THE APPLICABLE MAXIMUM ARAP SURCHARGE.
THE TENNESSEE CODE ANNOTATED SECTION 50-6-501 REQUIRES EVERY PUBLIC OR PRIVATE EMPLOYER THAT IS SUBJECT TO THE WORKERS COMPENSATION STATUTE TO "ESTABLISH AND ADMINISTER A SAFETY COMMITTEE IN ACCORDANCE WITH RULES ADOPTED PURSUANT TO T.C.A. SECTION 50-6-502 IF THE EMPLOYER HAS AN EXPERIENCE MODIFICATION RATE EQUAL TO OR GREATER THAN 1.2."
RATING REVISED TO REFLECT APPROVED RATING VALUES

Carrier: 13439 - 630 Policy: UB3P7190192125K Eff-Date: 04/01/2021 Exp-Date: 04/01/2022

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WORKERS COMPENSATION EXPERIENCE RATING

Risk Name: THE BRANCH GROUP INC Risk ID: 917350027

Rating Effective Date: 04/01/2022 Production Date: 01/03/2022 State: INTERSTATE

08-DISTRICT OF COLUMBIA Firm ID: Firm Name: THE BRANCH GROUP INC

Carrier: 10863 Policy No. WC463735807 Eff Date: 04/01/2018 Exp Date: 04/01/2019

Code	ELR	D-Ratio	Payroll	Expected Losses	Exp Prim Losses	Claim Data	IJ	OF	Act Inc Losses	Act Prim Losses
1111	NO EXPOSURE DEVELO			0	0					
Policy Total:			0	Subject Premium:	0	Total Act Inc Losses:			0	

08-DISTRICT OF COLUMBIA Firm ID: Firm Name: THE BRANCH GROUP INC

Carrier: 12610 Policy No. UB3P7190192025K Eff Date: 04/01/2020 Exp Date: 04/01/2021

Code	ELR	D-Ratio	Payroll	Expected Losses	Exp Prim Losses	Claim Data	IJ	OF	Act Inc Losses	Act Prim Losses
1111	NO EXPOSURE DEVELO			0	0					
Policy Total:			0	Subject Premium:	0	Total Act Inc Losses:			0	

32-NORTH CAROLINA Firm ID: Firm Name: THE BRANCH GROUP INC

Carrier: 10863 Policy No. WC463735807 Eff Date: 04/01/2018 Exp Date: 04/01/2019

Code	ELR	D-Ratio	Payroll	Expected Losses	Exp Prim Losses	Claim Data	IJ	OF	Act Inc Losses	Act Prim Losses
0930	WAIVER OF SUBROGAT			0	0	NO. 3	6	*	1,434	1,434
5183	1.13	.25	128	1						
5403	1.85	.25	97,405	1,802	451					
5507	1.22	.25	3,679,016	44,884	11,221					
5606	.30	.24	1,657,196	4,972	1,193					
6217	1.36	.24	719,840	9,790	2,350					
8227	1.18	.26	97,604	1,152	300					
8810	.04	.38	966,516	387	147					
9812	EMPLOYERS LIABILIT			0	0					
Policy Total:			7,217,705	Subject Premium:	256,441	Total Act Inc Losses:			1,434	

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* Total by Policy Year of all cases $2000 or less. D Disease Loss X Ex-Medical Coverage U USL&HW

C Catastrophic Loss E Employers Liability Loss # Limited Loss

WORKERS COMPENSATION EXPERIENCE RATING

Risk Name: THE BRANCH GROUP INC Risk ID: 917350027

Rating Effective Date: 04/01/2022 Production Date: 01/03/2022 State: INTERSTATE

32-NORTH CAROLINA Firm ID: Firm Name: THE BRANCH GROUP INC

Carrier: 10863 Policy No. WC463735808 Eff Date: 04/01/2019 Exp Date: 04/01/2020

Code	ELR	D-Ratio	Payroll	Expected Losses	Exp Prim Losses	Claim Data	IJ	OF	Act Inc Losses	Act Prim Losses
0930	WAIVER OF SUBROGAT			0	0	2840297991	5	F	127,018	18,500
5403	1.85	.25	135,455	2,506	627	NO. 5	6	*	3,097	3,097
5507	1.22	.25	5,601,245	68,335	17,084					
5606	.30	.24	2,192,975	6,579	1,579					
6217	1.36	.24	931,880	12,674	3,042					
8227	1.18	.26	126,448	1,492	388					
8810	.04	.38	1,247,474	499	190					
9812	EMPLOYERS LIABILIT			0	0					
Policy Total:			10,235,477	Subject Premium:	308,676	Total Act Inc Losses:			130,115	

32-NORTH CAROLINA Firm ID: Firm Name: THE BRANCH GROUP INC

Carrier: 12610 Policy No. UB3P7190192025K Eff Date: 04/01/2020 Exp Date: 04/01/2021

Code	ELR	D-Ratio	Payroll	Expected Losses	Exp Prim Losses	Claim Data	IJ	OF	Act Inc Losses	Act Prim Losses
0930	WAIVER OF SUBROGAT			0	0	NO. 3	6	*	3,293	3,293
5403	1.85	.25	107,146	1,982	496	FQF8702	6	F	7,579	7,579
5507	1.22	.25	4,046,918	49,372	12,343	FPY9814	9	F	24,125	18,500
5606	.30	.24	1,822,916	5,469	1,313	FQX9084	9	O	169,767	18,500
6217	1.36	.24	791,824	10,769	2,585	FQX7978	9	O	274,879	18,500
8227	1.18	.26	107,364	1,267	329					
8810	.04	.38	1,063,168	425	162					
9812	EMPLOYERS LIABILIT			0	0					
Policy Total:			7,939,336	Subject Premium:	165,029	Total Act Inc Losses:			479,643	

41-TENNESSEE Firm ID: Firm Name: THE BRANCH GROUP INC

Carrier: 10863 Policy No. WC463735807 Eff Date: 04/01/2018 Exp Date: 04/01/2019

Code	ELR	D-Ratio	Payroll	Expected Losses	Exp Prim Losses	Claim Data	IJ	OF	Act Inc Losses	Act Prim Losses
1111	NO EXPOSURE DEVELO			0	0					
Policy Total:			0	Subject Premium:	0	Total Act Inc Losses:			0	

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* Total by Policy Year of all cases $2000 or less. D Disease Loss X Ex-Medical Coverage U USL&HW

C Catastrophic Loss E Employers Liability Loss # Limited Loss

WORKERS COMPENSATION EXPERIENCE RATING

Risk Name: THE BRANCH GROUP INC Risk ID: 917350027

Rating Effective Date: 04/01/2022 Production Date: 01/03/2022 State: INTERSTATE

41-TENNESSEE Firm ID: Firm Name: THE BRANCH GROUP INC

Carrier: 11347 Policy No. UB3P7190192025K Eff Date: 04/01/2020 Exp Date: 04/01/2021

Code	ELR	D-Ratio	Payroll	Expected Losses	Exp Prim Losses	Claim Data	IJ	OF	Act Inc Losses	Act Prim Losses
1111	NO EXPOSURE DEVELO			0	0					
Policy Total:			0	Subject Premium:	0	Total Act Inc Losses:			0	

45-VIRGINIA Firm ID: Firm Name: THE BRANCH GROUP INC

Carrier: 10863 Policy No. WC463735807 Eff Date: 04/01/2018 Exp Date: 04/01/2019

Code	ELR	D-Ratio	Payroll	Expected Losses	Exp Prim Losses	Claim Data	IJ	OF	Act Inc Losses	Act Prim Losses
5183	1.08	.25	2,882,609	31,132	7,783	2440296033	5	F	50,560	18,500
5190	.78	.25	1,912,797	14,920	3,730	2440294762	6	F	2,214	2,214
5403	1.74	.25	559,318	9,732	2,433	2240385763	6	F	3,227	3,227
5507	1.34	.25	9,039,741	121,133	30,283	2240392345	6	F	4,309	4,309
5535	1.99	.23	987,358	19,648	4,519	NO. 16	6	*	9,468	9,468
5606	.36	.23	5,120,478	18,434	4,240	2240388958	9	F	7,925	7,925
6217	1.30	.23	2,470,122	32,112	7,386					
8227	1.09	.23	3,683,589	40,151	9,235					
8810	.04	.35	14,416,570	5,767	2,018					
9812	EMPLOYERS LIABILIT			0	0					
Policy Total:			41,072,582	Subject Premium:	1,295,187	Total Act Inc Losses:			77,703	

45-VIRGINIA Firm ID: Firm Name: THE BRANCH GROUP INC

Carrier: 10863 Policy No. WC463735808 Eff Date: 04/01/2019 Exp Date: 04/01/2020

Code	ELR	D-Ratio	Payroll	Expected Losses	Exp Prim Losses	Claim Data	IJ	OF	Act Inc Losses	Act Prim Losses
5183	1.08	.25	2,841,901	30,693	7,673	2440308294	5	F	30,516	18,500
5190	.78	.25	1,620,129	12,637	3,159	2440320903	5	F	48,563	18,500
5403	1.74	.25	618,139	10,756	2,689	2440315714	6	F	2,648	2,648
5507	1.34	.25	8,769,514	117,511	29,378	NO. 11	6	*	4,987	4,987
5535	1.99	.23	765,512	15,234	3,504	2440323875	9	F	30,937	18,500
5606	.36	.23	6,761,963	24,343	5,599	2440314316	9	F	104,589	18,500
6217	1.30	.23	2,664,510	34,639	7,967	2440321158	9	F	287,739	18,500
8227	1.09	.23	4,149,823	45,233	10,404					
8810	.04	.35	17,555,107	7,022	2,458					
9812	EMPLOYERS LIABILIT			0	0					
Policy Total:			45,746,598	Subject Premium:	1,200,915	Total Act Inc Losses:			509,979	

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* Total by Policy Year of all cases $2000 or less. D Disease Loss X Ex-Medical Coverage U USL&HW

C Catastrophic Loss E Employers Liability Loss # Limited Loss

WORKERS COMPENSATION EXPERIENCE RATING

Risk Name: THE BRANCH GROUP INC Risk ID: 917350027

Rating Effective Date: 04/01/2022 Production Date: 01/03/2022 State: INTERSTATE

45-VIRGINIA Firm ID: Firm Name: THE BRANCH GROUP INC

Carrier: 13439 Policy No. UB3P7190192025K Eff Date: 04/01/2020 Exp Date: 04/01/2021

Code	ELR	D-Ratio	Payroll	Expected Losses	Exp Prim Losses	Claim Data	IJ	OF	Act Inc Losses	Act Prim Losses
0930	WAIVER OF SUBROGAT			0	0	FSM6283	6	F	2,648	2,648
5183	1.08	.25	3,189,778	34,450	8,613	NO. 5	6	*	2,669	2,669
5190	.78	.25	2,105,811	16,425	4,106	FQF7867	6	F	3,391	3,391
5403	1.74	.25	636,016	11,067	2,767	FRN9164	6	F	4,902	4,902
5507	1.34	.25	9,943,494	133,243	33,311	FRN2175	6	O	51,250	18,500
5535	1.99	.23	1,086,989	21,631	4,975	FSM1311	9	O	55,623	18,500
5606	.36	.23	5,442,586	19,593	4,506					
6217	1.30	.23	2,717,078	35,322	8,124					
8227	1.09	.23	4,052,839	44,176	10,160					
8810	.04	.35	16,005,246	6,402	2,241					
9812	EMPLOYERS LIABILIT			0	0					
Policy Total:			45,179,837	Subject Premium:	801,876	Total Act Inc Losses:			120,483	

45-VIRGINIA Firm ID: AC Firm Name: G.J. HOPKINS INC

Carrier: 15172 Policy No. WC039227061 Eff Date: 08/05/2018 Exp Date: 08/05/2019

Code	ELR	D-Ratio	Payroll	Expected Losses	Exp Prim Losses	Claim Data	IJ	OF	Act Inc Losses	Act Prim Losses
1111	NO EXPOSURE DEVELO			0	0					
1111	NO EXPOSURE DEVELO			0	0					
9848	MINIMUM PREMIUM FO			0	0					
Policy Total:			0	Subject Premium:	120	Total Act Inc Losses:			0	

45-VIRGINIA Firm ID: AC Firm Name: G.J. HOPKINS INC

Carrier: 15172 Policy No. WC039227061 Eff Date: 08/05/2019 Exp Date: 08/05/2020

Code	ELR	D-Ratio	Payroll	Expected Losses	Exp Prim Losses	Claim Data	IJ	OF	Act Inc Losses	Act Prim Losses
1111	NO EXPOSURE DEVELO			0	0					
9848	MINIMUM PREMIUM FO			0	0					
Policy Total:			0	Subject Premium:	120	Total Act Inc Losses:			0	

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* Total by Policy Year of all cases $2000 or less. D Disease Loss X Ex-Medical Coverage U USL&HW

C Catastrophic Loss E Employers Liability Loss # Limited Loss

WORKERS COMPENSATION EXPERIENCE RATING

Risk Name: THE BRANCH GROUP INC Risk ID: 917350027

Rating Effective Date: 04/01/2022 Production Date: 01/03/2022 State: INTERSTATE

45-VIRGINIA Firm ID: B Firm Name: G.J. HOPKINS INC

Carrier: 17965 Policy No. WC074178500 Eff Date: 09/14/2017 Exp Date: 05/19/2018

Code	ELR	D-Ratio	Payroll	Expected Losses	Exp Prim Losses	Claim Data	IJ	OF	Act Inc Losses	Act Prim Losses
5183	1.08	.25	8,116	88	22					
5190	.78	.25	22,560	176	44					
9837	EMPLOYERS LIABILIT			0	0					
9848	MINIMUM PREMIUM FO			0	0					
Policy Total:			30,676	Subject Premium:	820	Total Act Inc Losses:			0	

45-VIRGINIA Firm ID: B Firm Name: G.J. HOPKINS INC

Carrier: 17965 Policy No. WC074178501 Eff Date: 05/19/2018 Exp Date: 05/19/2019

Code	ELR	D-Ratio	Payroll	Expected Losses	Exp Prim Losses	Claim Data	IJ	OF	Act Inc Losses	Act Prim Losses
5183	1.08	.25	871,377	9,411	2,353					
5190	.78	.25	602,976	4,703	1,176					
5537	1.22	.27	474,614	5,790	1,563					
9837	EMPLOYERS LIABILIT			0	0					
Policy Total:			1,948,967	Subject Premium:	54,842	Total Act Inc Losses:			0	

45-VIRGINIA Firm ID: B Firm Name: G.J. HOPKINS INC

Carrier: 17965 Policy No. WC074178502 Eff Date: 05/19/2019 Exp Date: 05/19/2020

Code	ELR	D-Ratio	Payroll	Expected Losses	Exp Prim Losses	Claim Data	IJ	OF	Act Inc Losses	Act Prim Losses
5183	1.08	.25	1,083,196	11,699	2,925	2230437723	6	F	324	324
5190	.78	.25	1,111,323	8,668	2,167	2440326925	6	F	30,071	18,500
5535	1.99	.23	598,810	11,916	2,741					
9837	EMPLOYERS LIABILIT			0	0					
Policy Total:			2,793,329	Subject Premium:	83,735	Total Act Inc Losses:			30,395	

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* Total by Policy Year of all cases $2000 or less. D Disease Loss X Ex-Medical Coverage U USL&HW

C Catastrophic Loss E Employers Liability Loss # Limited Loss

WORKERS COMPENSATION EXPERIENCE RATING

Risk Name: THE BRANCH GROUP INC Risk ID: 917350027

Rating Effective Date: 04/01/2022 Production Date: 01/03/2022 State: INTERSTATE

45-VIRGINIA Firm ID: B Firm Name: G.J. HOPKINS INC

Carrier: 17965 Policy No. WC074178503 Eff Date: 05/19/2020 Exp Date: 05/19/2021

Code	ELR	D-Ratio	Payroll	Expected Losses	Exp Prim Losses	Claim Data	IJ	OF	Act Inc Losses	Act Prim Losses
5183	1.08	.25	16,662	180	45					
5190	.78	.25	14,931	116	29					
5535	1.99	.23	5,765	115	26					
9837	EMPLOYERS LIABILIT			0	0					
9848	MINIMUM PREMIUM FO			0	0					
Policy Total:			37,358	Subject Premium:	1,048	Total Act Inc Losses:			0	

45-VIRGINIA Firm ID: C Firm Name: G.J. HOPKINS INC

Carrier: 17965 Policy No. WC023954500 Eff Date: 06/13/2018 Exp Date: 05/19/2019

Code	ELR	D-Ratio	Payroll	Expected Losses	Exp Prim Losses	Claim Data	IJ	OF	Act Inc Losses	Act Prim Losses
5183	1.08	.25	9,002	97	24					
9837	EMPLOYERS LIABILIT			0	0					
9848	MINIMUM PREMIUM FO			0	0					
Policy Total:			9,002	Subject Premium:	396	Total Act Inc Losses:			0	

47-WEST VIRGINIA Firm ID: Firm Name: THE BRANCH GROUP INC

Carrier: 10863 Policy No. WC463735807 Eff Date: 04/01/2018 Exp Date: 04/01/2019

Code	ELR	D-Ratio	Payroll	Expected Losses	Exp Prim Losses	Claim Data	IJ	OF	Act Inc Losses	Act Prim Losses
5190	.65	.37	1,682	11	4					
5507	1.20	.37	20,537	246	91					
5535	1.65	.32	912	15	5					
5606	.24	.32	51,937	125	40					
9812	EMPLOYERS LIABILIT			0	0					
Policy Total:			75,068	Subject Premium:	1,060	Total Act Inc Losses:			0	

47-WEST VIRGINIA Firm ID: Firm Name: THE BRANCH GROUP INC

Carrier: 10863 Policy No. WC463735808 Eff Date: 04/01/2019 Exp Date: 04/01/2020

Code	ELR	D-Ratio	Payroll	Expected Losses	Exp Prim Losses	Claim Data	IJ	OF	Act Inc Losses	Act Prim Losses
1111	NO EXPOSURE DEVELO			0	0					
Policy Total:			0	Subject Premium:	0	Total Act Inc Losses:			0	

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* Total by Policy Year of all cases $2000 or less. D Disease Loss X Ex-Medical Coverage U USL&HW

C Catastrophic Loss E Employers Liability Loss # Limited Loss

WORKERS COMPENSATION EXPERIENCE RATING

Risk Name: THE BRANCH GROUP INC Risk ID: 917350027

Rating Effective Date: 04/01/2022 Production Date: 01/03/2022 State: INTERSTATE

47-WEST VIRGINIA Firm ID: Firm Name: THE BRANCH GROUP INC

Carrier: 15318 Policy No. UB3P7190192025K Eff Date: 04/01/2020 Exp Date: 04/01/2021

Code	ELR	D-Ratio	Payroll	Expected Losses	Exp Prim Losses	Claim Data	IJ	OF	Act Inc Losses	Act Prim Losses
0930	WAIVER OF SUBROGAT			0	0					
5507	1.20	.37	22,591	271	100					
5606	.24	.32	57,131	137	44					
9812	EMPLOYERS LIABILIT			0	0					
Policy Total:			79,722	Subject Premium:	860	Total Act Inc Losses:			0	

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* Total by Policy Year of all cases $2000 or less. D Disease Loss X Ex-Medical Coverage U USL&HW

C Catastrophic Loss E Employers Liability Loss # Limited Loss

CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY): 7/20/2022

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

PRODUCER Scott Insurance - Lynchburg 1301 Old Graves Mill Road Lynchburg VA 24502	**CONTACT NAME:** Melanie Hackworth **PHONE (A/C, No, Ext):** 434-832-2295 **FAX (A/C, No):** 434-455-8851 **E-MAIL ADDRESS:** mhackworth@scottins.com
INSURED BRANC-1 Branch Builds, Inc. P.O. Box 40051 Roanoke, VA 24022	**INSURER(S) AFFORDING COVERAGE** — **NAIC #** **INSURER A :** The Travelers Indemnity Company (A++) — 25658 **INSURER B :** Indian Harbor Insurance Company (A+) — 36940 **INSURER C :** Hanover Insurance Company (A) — 22292 **INSURER D :** Ace Property & Casualty Insurance Company (A++) — 20699 **INSURER E :** **INSURER F :**

COVERAGES **CERTIFICATE NUMBER:** 984710473 **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	X **COMMERCIAL GENERAL LIABILITY** [ ] CLAIMS-MADE [X] OCCUR GEN'L AGGREGATE LIMIT APPLIES PER: [ ] POLICY [X] PRO-JECT [ ] LOC [ ] OTHER:			VTC2K-CO-2N253479-22	4/1/2022	4/1/2023	EACH OCCURRENCE DAMAGE TO RENTED PREMISES (Ea occurrence) MED EXP (Any one person) PERSONAL & ADV INJURY GENERAL AGGREGATE PRODUCTS - COMP/OP AGG 	$ 1,000,000 $ 500,000 $ 10,000 $ 1,000,000 $ 2,000,000 $ 2,000,000 $
A	**AUTOMOBILE LIABILITY** X ANY AUTO [ ] OWNED AUTOS ONLY [ ] SCHEDULED AUTOS X HIRED AUTOS ONLY X NON-OWNED AUTOS ONLY			VTC2J-CAP-2N253467-22	4/1/2022	4/1/2023	COMBINED SINGLE LIMIT (Ea accident) BODILY INJURY (Per person) BODILY INJURY (Per accident) PROPERTY DAMAGE (Per accident) 	$ 1,000,000 $ $ $ $
A	X **UMBRELLA LIAB** X OCCUR **EXCESS LIAB** [ ] CLAIMS-MADE [ ] DED X RETENTION $ 10,000			CUP-7P846706-22-25	4/1/2022	4/1/2023	EACH OCCURRENCE AGGREGATE 	$ 10,000,000 $ 10,000,000 $
A	**WORKERS COMPENSATION AND EMPLOYERS' LIABILITY** Y / N ANYPROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? N **(Mandatory in NH)** If yes, describe under DESCRIPTION OF OPERATIONS below	N / A		UB-3P719019-22-25-K	4/1/2022	4/1/2023	X PER STATUTE [ ] OTH-ER E.L. EACH ACCIDENT E.L. DISEASE - EA EMPLOYEE E.L. DISEASE - POLICY LIMIT	 $ 1,000,000 $ 1,000,000 $ 1,000,000
C B D	Builders Risk Professional Liability Excess Liability			RHRA928927 CEO742113202 XCQ G46623575 006	6/1/2022 6/10/2022 4/1/2022	6/1/2023 6/10/2023 4/1/2023	Reporting Form Limit Professional Each Act Excess Limit	50,000,000 10,000,000 15,000,000

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

CERTIFICATE HOLDER

*****For Bid Purposes Only*****

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

Kam Jones

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CHUBB

Berkshire Hathaway Specialty Insurance

July 26, 2022

Mr. Paul Nichols, Division Superintendent
Mecklenburg County Public Schools
175 Mayfield Drive
Boydton, Virginia VA 23917

Re: Branch Builds, Inc.
Additions and Renovations to Clarksville Elementary School
(RFP) #CESPPEA-2022-01

Dear Mr. Nichols:

It has been the privilege of American Global LLC and Federal Insurance Company and Berkshire Hathaway Specialty Insurance Company to provide surety bonds on behalf of Branch Builds, Inc., a subsidiary of The Branch Group. In our opinion, Branch Builds, Inc. remains properly financed, well equipped, and capably managed.

At the present time, Federal Insurance Company and Berkshire Hathaway Specialty Insurance Company provide a $300,000,000.00 single project / $1,250,000,000.00 aggregate surety program to Branch Builds, Inc. As always, Federal Insurance Company and Berkshire Hathaway Specialty Insurance Company reserves the right to perform normal underwriting at the time of any bond request, including, without limitation, prior review and approval of relevant contract documents, bond forms, and project financing. We assume no liability to your or any of your affiliates if for any reason we do not execute such bonds.

Federal Insurance Company is listed on the U.S. Treasury Department's Listing of Approved Sureties (Department Circular 570) and is rated A++, XV by A.M. Best Company.

Berkshire Hathaway Specialty Insurance Company is listed on the U.S. Treasury Department's Listing of Approved Sureties (Department Circular 570) and is rated A+ XV by A.M. Best Company.

Very truly yours,

Federal Insurance Company
Berkshire Hathaway Specialty Insurance Company

Jaclyn Thomas, Attorney-In-Fact

CHUBB

Power of Attorney

Federal Insurance Company | Vigilant Insurance Company | Pacific Indemnity Company
Westchester Fire Insurance Company | ACE American Insurance Company

Know All by These Presents, that **FEDERAL INSURANCE COMPANY**, an Indiana corporation, **VIGILANT INSURANCE COMPANY**, a New York corporation, **PACIFIC INDEMNITY COMPANY**, a Wisconsin corporation, **WESTCHESTER FIRE INSURANCE COMPANY** and **ACE AMERICAN INSURANCE COMPANY** corporations of the Commonwealth of Pennsylvania, do each hereby constitute and appoint Thomas MacDonald, Marisol Mojica, Edward Reilly, Krystal L. Stravato, Jaclyn Thomas and Kevin T. Walsh Jr. of Whippany, New Jersey; Andrea E. Gorbert of Jericho, New York; Neil C. Donovan, and Gerard Leib of Berwyn, Pennsylvania ----------

each as their true and lawful Attorney-in-Fact to execute under such designation in their names and to affix their corporate seals to and deliver for and on their behalf as surety thereon or otherwise, bonds and undertakings and other writings obligatory in the nature thereof (other than bail bonds) given or executed in the course of business, and any instruments amending or altering the same, and consents to the modification or alteration of any instrument referred to in said bonds or obligations.

In Witness Whereof, said **FEDERAL INSURANCE COMPANY, VIGILANT INSURANCE COMPANY, PACIFIC INDEMNITY COMPANY, WESTCHESTER FIRE INSURANCE COMPANY** and **ACE AMERICAN INSURANCE COMPANY** have each executed and attested these presents and affixed their corporate seals on this **6th** day of **April, 2022.**

Dawn M. Chloros, Assistant Secretary

Stephen M. Haney, Vice President

STATE OF NEW JERSEY
County of Hunterdon ss.

On this **6th** day of **April, 2022** before me, a Notary Public of New Jersey, personally came Dawn M. Chloros and Stephen M. Haney, to me known to be Assistant Secretary and Vice President, respectively, of FEDERAL INSURANCE COMPANY, VIGILANT INSURANCE COMPANY, PACIFIC INDEMNITY COMPANY, WESTCHESTER FIRE INSURANCE COMPANY and ACE AMERICAN INSURANCE COMPANY, the companies which executed the foregoing Power of Attorney, and the said Dawn M. Chloros and Stephen M. Haney, being by me duly sworn, severally and each for herself and himself did depose and say that they are Assistant Secretary and Vice President, respectively, of FEDERAL INSURANCE COMPANY, VIGILANT INSURANCE COMPANY, PACIFIC INDEMNITY COMPANY, WESTCHESTER FIRE INSURANCE COMPANY and ACE AMERICAN INSURANCE COMPANY and know the corporate seals thereof, that the seals affixed to the foregoing Power of Attorney are such corporate seals and were thereto affixed by authority of said Companies; and that their signatures as such officers were duly affixed and subscribed by like authority.

Notarial Seal

KATHERINE J. ADELAAR
NOTARY PUBLIC OF NEW JERSEY
No. 2316685
Commission Expires July 16, 2024

Notary Public

CERTIFICATION

Resolutions adopted by the Boards of Directors of FEDERAL INSURANCE COMPANY, VIGILANT INSURANCE COMPANY, and PACIFIC INDEMNITY COMPANY on August 30, 2016; WESTCHESTER FIRE INSURANCE COMPANY on December 11, 2006; and ACE AMERICAN INSURANCE COMPANY on March 20, 2009:

"RESOLVED, that the following authorizations relate to the execution, for and on behalf of the Company, of bonds, undertakings, recognizances, contracts and other written commitments of the Company entered into in the ordinary course of business (each a "Written Commitment"):

(1) Each of the Chairman, the President and the Vice Presidents of the Company is hereby authorized to execute any Written Commitment for and on behalf of the Company, under the seal of the Company or otherwise.

(2) Each duly appointed attorney-in-fact of the Company is hereby authorized to execute any Written Commitment for and on behalf of the Company, under the seal of the Company or otherwise, to the extent that such action is authorized by the grant of powers provided for in such person's written appointment as such attorney-in-fact.

(3) Each of the Chairman, the President and the Vice Presidents of the Company is hereby authorized, for and on behalf of the Company, to appoint in writing any person the attorney-in-fact of the Company with full power and authority to execute, for and on behalf of the Company, under the seal of the Company or otherwise, such Written Commitments of the Company as may be specified in such written appointment, which specification may be by general type or class of Written Commitments or by specification of one or more particular Written Commitments.

(4) Each of the Chairman, the President and the Vice Presidents of the Company is hereby authorized, for and on behalf of the Company, to delegate in writing to any other officer of the Company the authority to execute, for and on behalf of the Company, under the Company's seal or otherwise, such Written Commitments of the Company as are specified in such written delegation, which specification may be by general type or class of Written Commitments or by specification of one or more particular Written Commitments.

(5) The signature of any officer or other person executing any Written Commitment or appointment or delegation pursuant to this Resolution, and the seal of the Company, may be affixed by facsimile on such Written Commitment or written appointment or delegation.

FURTHER RESOLVED, that the foregoing Resolution shall not be deemed to be an exclusive statement of the powers and authority of officers, employees and other persons to act for and on behalf of the Company, and such Resolution shall not limit or otherwise affect the exercise of any such power or authority otherwise validly granted or vested."

I, Dawn M. Chloros, Assistant Secretary of FEDERAL INSURANCE COMPANY, VIGILANT INSURANCE COMPANY, PACIFIC INDEMNITY COMPANY, WESTCHESTER FIRE INSURANCE COMPANY and ACE AMERICAN INSURANCE COMPANY (the "Companies") do hereby certify that

(i) the foregoing Resolutions adopted by the Board of Directors of the Companies are true, correct and in full force and effect,
(ii) the foregoing Power of Attorney is true, correct and in full force and effect.

Given under my hand and seals of said Companies at Whitehouse Station, NJ, this July 26, 2022

Dawn M. Chloros, Assistant Secretary

IN THE EVENT YOU WISH TO VERIFY THE AUTHENTICITY OF THIS BOND OR NOTIFY US OF ANY OTHER MATTER, PLEASE CONTACT US AT:
Telephone (908) 903- 3493 Fax (908) 903- 3656 e-mail: surety@chubb.com

AIA® Document B305™ – 2021

Architect's Qualification Statement

THE PARTIES SHOULD EXECUTE A SEPARATE CONFIDENTIALITY AGREEMENT IF THEY INTEND FOR ANY OF THE INFORMATION IN THIS B305-2021 TO BE HELD CONFIDENTIAL.

SUBMITTED TO:
Mr. Paul Nichols, Division Superintendent
Mecklenburg County Public Schools
175 Mayfield Drive
Boydton, VA 23917

PROJECT:
REQUEST FOR PROPOSALS (RFP) UNDER PPEA FOR CONCEPTUAL PHASE ADDITIONS AND RENOVATIONS TO CLARKSVILLE ELEMENTARY SCHOOL DESIGN-BUILD SERVICES

1696 Noblin Farm Road
Clarksville, VA 23917

ADDITIONS AND DELETIONS:
The author of this document has added information needed for its completion. The author may also have revised the text of the original AIA standard form. An *Additions and Deletions Report* that notes added information as well as revisions to the standard form text is available from the author and should be reviewed. A vertical line in the left margin of this document indicates where the author has added necessary information and where the author has added to or deleted from the original AIA text.

This document has important legal consequences. Consultation with an attorney is encouraged with respect to its completion or modification.

§ 1 FIRM INFORMATION

§ 1.1 Identify the full legal name of your firm.

VMDO Architects, PC

§ 1.2 Identify the address of your firm's principal place of business and list all office locations out of which your firm conducts business. If your firm has multiple offices, you may attach an exhibit or refer to a website.

200 East Market Street
Charlottesville, VA 22902

§ 1.3 Identify the office out of which your firm proposes to perform services for the Project.

Charlottesville, VA

§ 1.4 Primary contact:
(Insert name, title, phone number, and email address.)

Ken Thacker, AIA LEED AP
Principal
434-996-0667
kthacker@vmdo.com

§ 1.5 Firm Website.

https://www.vmdo.com/

§ 1.6 General Statement of Qualifications.
(Briefly describe your firm's qualifications, such as your design philosophy or firm mission, and how those qualifications apply to the Project. Please limit your response to 200 words or less.)

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User Notes: (893539187)

VMDO Architects is an award-winning architecture firm made up of educational design specialists. Since 1976, we have focused our practice on customized planning and design for institutional clients. Our design of distinctive, student-centered 21st-century learning environments and personalized services are based on an in-depth understanding of our client's needs and aspirations. We strive to create designs that are suited to the needs of a community, support educational programs, offer inspiring learning environments, and translate into meaningful buildings of lasting value.

§ 1.7 Identify the legal status under which your firm does business, such as sole proprietorship, partnership, corporation, joint venture, or other.

Professional Corporation

.1 If your firm is a sole proprietorship, identify its owner and date of organization.

.2 If your firm is a partnership, identify the type, its partners, and its date of organization.

.3 If your firm is a corporation, identify the type, the state in which it is incorporated, the date of incorporation, and its four highest-ranking corporate officers and their titles, as applicable.

Type of Corporation: S-Corp

State: Virginia

Date Incorporated: February 22, 1988

Four Highest Ranking Corporate Officers: Terry Forbes, President
Tricia Schroeder, Exec. VP, Secretary, Treasurer
Kenneth Thacker, VP
Kelly Callahan, VP

.4 If your firm's legal status is other than those listed above, describe it and identify its individual leaders.

§ 1.8 Identify the number of years your firm has been in business and any other significant information pertaining to your firm's history.

46

§ 1.9 How many full-time employees work for your firm?

77

.1 If your firm has multiple offices, how many total full-time employees work in the primary office from which services will be performed on the Project?

§ 1.10 How many full-time registered architects work for your firm?

37

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User Notes: (893539187)

.1 If your firm has multiple offices, how many total full-time registered architects work in the primary office from which services will be performed on the Project?

§ 1.11 Identify relevant honors and awards your firm has received.
(Please limit your response to five honors and awards and a brief description of each in the prompt below. You may attach materials or a brochure to supplement the information provided below.)

2020 AIA Virginia Test of Time Award and Architectural Excellence Awards
2020 Virginia School Boards Association Platinum Design Award
2019 Center for the Built Environment Livable Buildings Award
2019 Association for Learning Environments Project of Distinction
2017 AIA Committee on the Environment "Top Ten" Award

§ 1.12 Describe your firm's professional and civic involvement.

AIA Central Virginia – Shawn Mulligan (President), Robert Winstead (President Emeritus)
Architecture Construction Engineering (ACE) Mentorship Project - Kelly Callahan
Green Schools National Network Catalyst Quarterly Editorial Board - Wyck Knox
AIA Committee on the Environment "Top Ten" Jury - Michelle Amt

§ 1.13 Indicate whether your firm is certified as a governmentally recognized special business class, such as a minority business enterprise, woman business enterprise, service-disabled veteran owned small business, or a small disadvantaged business. For each, identify the certifying authority and indicate jurisdictions to which such certification applies.

Small Business
Virginia
SWaM #657094

§ 1.14 Does your firm currently carry professional liability insurance?
(Insert yes or no.)

Yes

§ 1.15 Are there any pending or outstanding judgments, arbitration proceedings, or lawsuits against your firm, its parent, or a subsidiary, affiliate, or other entity having common ownership or management, in which the amount in dispute is more than $75,000?
(If the answer is yes, provide an explanation.)

No

§ 1.16 In the last five years, has your firm, its parent, or a subsidiary, affiliate, or other entity having common ownership or management; (1) failed to complete services awarded to it; (2) been terminated for any reason except for an owner's convenience; (3) had any judgments, settlements, or awards against it pertaining to professional services resulting in payment of sums in excess of $75,000 or (4) filed any lawsuits or requested arbitration regarding a construction project or design services, (5) been convicted of, or indicted for, a business-related crime, or (6) had any business or professional license subjected to disciplinary action that resulted in a suspension or revocation of a license?
(If the answer to any of the above is yes, provide an explanation.)

No

§ 2 CAPABILITIES

§ 2.1 Identify design services that your firm is capable of providing, such as programming; interior design; furniture, furnishings, and equipment design and selection; master planning; regional or urban planning; or historic preservation.

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User Notes: (893539187)

Architectural design services; programming; master planning; interior design; marketing services; community engagement

§ 2.2 Identify other design disciplines that your firm is capable of providing, such as structural engineering, mechanical engineering, electrical engineering, landscape architecture, facility management, or commissioning.

Landscape Architecture

§ 2.3 Describe your firm's experience with sustainable design, including areas of expertise and certifications achieved on past projects.

Buildings are significant investments, both for our clients and for their communities. The effects of constructing and operating them are felt far beyond the site boundary, and for generations after opening day. At VMDO, we take this responsibility to our clients and to future generations seriously.

We see design as an opportunity to deliver lasting value – for our clients, by enabling them to achieve their goals for healthy environments that support wellbeing; for their communities, by creating public assets that connect to regiona l mobility networks, support ecosystem and watershed health, and increase resilience; and for our global community, by delivering projects that minimize ecological and climate impacts, model new solutions to global challenges, and advocate for transparency and climate action throughout the supply chain. VMDO's evidence-based approach combines best practices, thought leadership, and robust analysis to help our clients make informed decisions. We encourage the use of rating systems and certifications – including LEED, the Living Building Challenge, the WELL Building Standard, and Fitwel – to engage stakeholders in an integrated design process that maintains accountability and integrity of project goals.

Our considerations for performance include:

- **Net Zero Energy.** VMDO is a recognized expert in net-zero energy building design. All of our projects consider zero energy in their designs and most are built as "solar ready." VMDO participates in the AIA 2030 Commitment, an industry initiative to make all new buildings and renovations carbon-neutral by the year 2030. As signatories, we continually monitor and annually report the predicted energy performance of our projects, thereby helping to transform the industry and to build everyone's capacity to address some of the most challenging issues of our time.
- **Water Efficiency.** The energy needed to clean and transport potable water and sewage contributes to our global challenges and burdens our communities and ecosystems. Our projects use water mindfully through efficient fixtures and processes, and rely on alternative resources like captured condensate, rainwater, and greywater in order to further reduce site water demands.
- **Materials.** VMDO advocates for transparency in the environmental and health impacts of building products. In addition to selecting products with lower environmental impacts (including recycled, biobased, and/or local products), we extend the useful life of the products we use by designing for durability, ease of maintenance, and flexibility/adaptability.
- **Regenerative Landscapes.** Our projects capture and cleanse rainfall, restore native habitats, mitigate urban heat island effect and protect the night sky – strategies that are not just good for the environment, but also support wellness, reduce operational costs, and increase resilience.
- **Mobility.** Getting people out of cars is not only good for the environment through lowered emissions; it is also good for our communities and for our health. VMDO designs for people, not cars, and as such we look for opportunities to provide public paths, enhance pedestrian and bicycle safety, and make public transit the easy choice.

VMDO Net-Zero Energy Leadership + Expertise: VMDO Projects listed below

Buford Middle School
Zero Energy Ready
21 EUI (modeled) | 28.0% Window-Wall Ratio | Airtightness: 0.15 cfm/sf @ 75Pa (target) | HVAC: Ground-source heat pumps + DOAS

Discovery Elementary School
Zero Energy Verified (496 kW 2017)

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User Notes: (893539187)

14.7 EUI (actual) | 26.8% Window-Wall Ratio
Airtightness: 0.123 cfm/sf @ 75Pa (actual)
HVAC: Ground-source heat pumps + DOAS

Cardinal
Elementary School
Emerging Zero Energy (~475kW via PPA 2022)
17.8 EUI (modeled)
26.8% Window-Wall Ratio Airtightness: 0.101cfm/sf @ 75Pa (actual)
HVAC: Ground-source heat pumps + DOAS

Alice West Fleet
Elementary School
Zero Energy Verified
(582 kW via PPA 2021)
17.2 EUI (actual)
21.6% Window-Wall Ratio Airtightness: 0.15 cfm/sf @ 75Pa (target)
HVAC: Ground-source heat pumps + DOAS

Poolesville High School
Zero Energy Ready
28.6 EUI (modeled) | 21% Window-Wall Ratio
Airtightness: 0.15 cfm/sf @ 75Pa (target)
HVAC: Water-source heat pumps + DOAS

Bluestone Elementary School
Emerging Zero Energy (~340 kW PPA 2023)
17.1 EUI (actual) | 24.7% Window-Wall Ratio
Airtightness: 0.16 cfm/sf @ 75Pa (actual)
HVAC: Ground-source heat pumps + DOAS

VMDO certifications and achievements received on past projects:

VMDO has been able to achieve a high level of design quality and client service that has achieved regional, national, and international recognition from a variety of associations, including:

Living Building Challenge / Zero Energy Building Certification of Discovery Elementary School – currently the largest ZE building of any type in the world certified by the International Living Future Institute who oversees the Living Building Challenge.

AIA Committee on Architecture for Education (AIA CAE) Award recognizing educational excellence of Manassas Park Elementary + Pre-K; Manassas Park, VA (2010) and Buckingham County Primary + Elementary; Dillwyn, VA (2014).

Based on occupant surveys, **Discovery Elementary School** has received the 2021 **Livable Buildings Award** in from UC Berkeley's Center for the Built Environment. **Bluestone Elementary** was awarded the same distinction in 2019 and also received the Association for Learning Environment's 2019 **Project of Distinction Award**.

Discovery Elementary School, a 2017 AIA Committee on the Environment **(COTE) "Top Ten" Award** recipient, is one of the largest building of any kind, anywhere in the world, to receive zero energy certification by the International Living Future Institute (ILFI). It is also the first recipient of the **USGBC's LEED Zero Energy certification.**

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User Notes:
(893539187)

Manassas Park Elementary School is the first project to garner not only the **AIA's Educational Facility Design Award** from the Committee on Architecture for Education (CAE), but to also simultaneously win a prestigious **AIA COTE Award.**

Poquoson Elementary School was Virginia's first LEED Gold Elementary School; **Manassas Park Elementary School** was the second; and **Brownsville Elementary School** was the third – all of which are VMDO elementary school projects.

§ 2.4 Does your firm use building information modeling (BIM)? If so, describe how your firm uses BIM and identify BIM software that your firm regularly uses.

Yes. VMDO has over a decade of experience using Autodesk Revit to design and document projects at all stages of the process. Revit is a critical tool for collaborating with our engineering consultants to identify design conflicts. With the Enscape add-in, we are able to use Revit as a presentation tool - providing walk-throughs of the digital building model as well as panoramic images. VMDO also utilizes Sketchup for early site and diagrammatic building studies.

§ 2.5 List other software programs, in addition to those identified in Section 2.4 that your firm uses in the design process.

Additional programs are mentioned in 2.4 and 2.6.

§ 2.6 Briefly describe your firm's approach to quality management.

We have a dedicated BIM specialist as well as a committee of power users who are constantly improving our BIM components in an effort to provide consistently high-quality documents. VMDO has both internal staff, not assigned to the project, and external consultants who assist with checking the project documentation. We have the capacity to utilize Navisworks, or other software, to check the digital construction model for conflicts. Project teams are made up of staff of all levels of experience. Senior staff with years of documentation and construction experience provide direction on critical details to the project teams. We digitally collaborate with our consultants in real time to convey thoughts, ask questions, and comment on the contents of their documentation.

§ 2.7 Identify additional accreditations, services, skills, or personnel that you believe differentiate your firm.

§ 3 PROJECT DESIGN TEAM

§ 3.1 List design disciplines your firm will provide for the Project using its own employees.

Kenneth Thacker, AIA, LEED AP – Principal In Charge
Kelly Callahan, AIA – Project Architect
Robert Winstead, AIA, ALEP, LEED AP B+DC – Educational Planner

§ 3.2 List design disciplines your firm will provide for the Project using consultants.

Mechanical / Electrical / Fire Protection Engineering: CMTA Engineers
Structural Engineering: Springpoint Structural LLC
Civil Engineering: Timmons Group

§ 4 PROJECT PERSONNEL

§ 4.1 Identify the licensed professional and registration number under which architectural services will be performed on the Project.

Ken Thacker
Registered Architect: Virginia
Virginia License Number: 0401011680

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User Notes: (893539187)

§ 4.2 List key personnel from your firm who will be meaningfully involved in providing professional services on this Project. Include each person's position on the Project team, office location, proposed role, and experience on similar projects.

Kelly Callahan- Project Architect, 20+ years of experience on K12 projects
Rob Winstead- Educational Planner, 20+ years of experience on K12 projects, environmental sustainability expert

§ 5 REFERENCES

§ 5.1 Identify three client references:
(Insert name, organization, project name(s), and contact information.)

Albemarle County Public Schools
Crozet ES, Jouett + Walton Middle School Science Lab Renovation, Brownsville ES
Mr. Matt Wertman
Project Manager
Albemarle County Public Schools
(434) 872-4501 x 3223 mwertman@k12albemarle.org

Harrisonburg City Public Schools
Bluestone Elementary School & Elon Rhodes Early Childhood Learning
Dr. Craig Mackail, Assistant Superintendent/CFO
One Court Square
Harrisonburg, VA 22801
(540) 434-9916
cmackail@harrisonburg.k12.va.us

Buckingham County Public Schools
Buckingham County Primary + Elementary Schools
Cecil C. Snead, II, Ed.D. (Former Superintendent, now with Orange County Public Schools)
200 Dailey Drive
Orange, VA 22960
(540) 661-4550 (office)
csnead@ocss-va.org

§ 5.2 Identify three contractor references:
(Insert name, organization, project name(s), and contact information.)

Jamerson-Lewis Construction
William Cook
President
(434) 845-3468

Nielsen Construction, Inc
Thomas Moomaw
Chief Operations Officer
(540) 432-6134

Gilbane Building Company
Carli Kitto
Project Manager
(703) 312-7240

§ 6 REPRESENTATIVE PROJECTS

List five of your firm's projects below, either completed or in progress, that are representative of your firm's experience and capabilities. If a Project is identified on page 1, include representative projects that are relevant to the Project. You may attach materials, such as photographs or renderings, to supplement the information provided below.

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Representative Project #1
Project Name: Discovery Elementary School

Owner: Arlington Public Schools

Brief Description:
Discovery Elementary School is Arlington Public School's first elementary school designed in the 21st century. While built to address rapidly growing student enrollment in Arlington, its design provides a model for 21st century learning and demonstrates how a building can support how and where students learn. The design leverages every nook and cranny of the school to create seamless integration between design, sustainability, and learning.

The school was designed to be a zero-energy building and has been an overall trailblazer for zero-energy schools, both in demonstrating performance and engaging students in the "building as a teaching tool" philosophy. From a custom-designed cloud-based building dashboard that tracks energy data in real-time (making it available to educators to use in everyday curriculum), to a rooftop photovoltaic and solar thermal learning lab, to several dozen factoids that feature facts and illustrations – the design prompts students to question, reflect, and become active participants in their school as a teaching tool.

Project Delivery Method: CM at Risk

Size: 97,588 Square Feet New Construction

Construction Cost: $32,710,130

Completion Date: August 2015

Contractor/Construction Manager: CBRE/Heery Formerly: Heery International

Representative Project #2
Project Name: Bluestone Elementary School

Owner: Harrisonburg City Public School

Brief Description:

Nicknamed "the friendly city," Harrisonburg is a designated refugee relocation city. 35% of students identify as English Language Learners, representing over 60 different countries and speaking 58 languages. The design of Bluestone Elementary School embraces cultural diversity while highlighting the relationship between the school and its global context – helping students relate to the larger world while feeling part of a community designed just for them.

The design embraces cultural diversity through design and programming. Near the lobby, a representative international flag exhibit highlights the diversity of the student population. Below the lobby is a Dining Commons that emphasizes the significance of dining, sharing, and gathering as a community. Through a flexible program that promotes learning, activity, and community, the school's architecture celebrates diversity while honoring core values of creativity, expression, and identity.

The design of the school also provides a variety of spaces for all scales of learning and welcoming public areas. The school features 3 floors, including 42 core learning studios organized into grade-level "neighborhoods." Neighborhoods support differentiated learning by providing a variety of core learning spaces, breakout areas, and teacher resource rooms that can be leveraged in different ways to support desired levels of autonomy and collaboration. The school also maximizes views of the Shenandoah Valley and other natural surroundings. A wayfinding system celebrates Harrisonburg's unique geography and ecology.

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User Notes: (1332377926)

Project Delivery Method: Design-Bid-Build

Size: 103,700 Square Foot New Construction

Construction Cost: $26,682,344

Completion Date: August 2017

Contractor/Construction Manager: Nielsen Builders, Inc

Representative Project #3
Project Name: Alice Fleet Elementary School

Owner: Arlington Public Schools

Brief Description:

Reflecting a strongly-voiced community desire to "build up, not out," Fleet Elementary School is Arlington's first four-story elementary school – and one of the first in the Mid-Atlantic. The school is also the second of three net zero energy schools for Arlington Public Schools (APS). In part because of APS' commitment to net-zero energy, Arlington County was the first locality in Virginia to commit to 100% renewable electricity by 2035. Fleet Elementary School features a 500kW rooftop solar array with geothermal heating and cooling as well as numerous design innovations that reduce the school's carbon footprint while maximizing energy savings for the school district.

The school embraces the community scale of the residential neighborhood with a welcoming double-height entry while situating a four-story educational wing on its compact, triangular site. In deference to the neighborhood context, the building "steps back" as it "goes up" – placing the fourth story portion of the building closest to the center of the site and as far away from houses as possible. The building sits on a podium over two levels of structured parking that can accommodate 228 parking spots.

Sited adjacent to a middle school, park, and recreation center, Fleet Elementary School transforms a former parking lot into an educational landscape that improves accessibility, connectivity, and environmental conditions for the benefit of the entire 20-acre site. Despite adding a compact 38,820 SF footprint, no increase in impervious area occurred. The design team facilitated community buy-in and built confidence by ensuring a cohesive park was retained and that no significant loss of green space and no net loss of recreational programming occurred. Traffic, parking, and pedestrian walkways / bikeways were closely studied and designed to provide streamlined transportation options and optimal safety and security. All parking is under the building and integrated stormwater cleansing and retention is provided on-site through best management practices.

Project Delivery Method: CM at Risk

Size: 109,988 Square Feet New Construction

Construction Cost: $48,512,206

Completion Date: September 2019

Contractor/Construction Manager: Whiting-Turner Contracting Co

Representative Project #4
Project Name: Cardinal Elementary School

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User Notes: (1332377926)

Owner: Arlington Public Schools

Brief Description:
Opened in September 2021 as VMDO's third net zero energy school in Arlington, Cardinal Elementary School sets new standards for design excellence in sustainability, energy performance, and innovative learning environments for Arlington Public Schools. Cardinal Elementary follows in the footsteps of the NZE milestone established by Discovery Elementary and the four-story NZE school precedent established by Fleet Elementary. However, different from these previous projects, Cardinal is actually an addition to the existing Reed School/Westover Library and features a significant renovation scope that optimizes existing building stock to achieve net-zero energy. Building on lessons learned in NZE design and construction, this project features the lowest embodied energy of VMDO's previous NZE projects.
Cardinal Elementary reflects the often-repeated desire among Arlington residents to "build up and not out." A fully accessible walkway stretching around the perimeter of the school includes space for outdoor classrooms alongside new fields and playgrounds that are open to community use outside of school hours. The addition includes school administrative offices, classrooms, a gymnasium, kitchen, cafeteria, and teacher support areas. The renovated areas include new music/art rooms, a library, classrooms, teacher support areas, and other building support spaces.

Project Delivery Method: CM at Risk

Size: 110,500 Square Feet New Construction

Construction Cost: $55,000,000

Completion Date: September 2021

Contractor/Construction Manager: Gilbane Building Company

Representative Project #5
Project Name: Forest Middle School Addition + Renovation

Owner: Bedford County Public Schools

Brief Description:

The Forest Middle School renovation and expansion increases capacity to 1,200 students with a new addition featuring a new secure entrance, competition gymnasium, additional arts and media spaces, a courtyard, and, most importantly, new transformational learning environments for 6th, 7th, and 8th graders.

The much anticipated addition remedies the 25-year reliance on temporary mobile classroom units, which have long posed environmental, operational, and safety concerns. The new addition enhances outdoor space with a central, sheltered courtyard that offers students and teachers an enclosed, landscaped environment for a wide range of learning activities.

Within the expanded school, learning is made visible – engaging students and enhancing a sense of community among faculty, staff, and students. Differently-sized learning studios, seminar spaces, huddle rooms, and study booths complement classrooms in the addition and support student passions, while also empowering CTE and STEM project work with places that inspire creation and collaboration.
In the existing building, a reinvigorated central spine clarifies circulation and reinforces Bedford County's "focus on learners" by transforming scattered classrooms into a learner-centered central commons.

Owner's representation on this project was provided by SKANSKA with an on-site Clerk of the Works. This service was an invaluable complement to the design team, offering us full-time "eyes and ears on the site." In

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User Notes: (1332377926)

addition, SKANSKA facilitated an "Owner Direct Purchase" program for our client, taking advantage of the school division's tax-exempt status and saving thousands of dollars in the process.

Project Delivery Method: Design-Bid-Build

Size:
75,000 Square Foot Addition
99,000 Square Foot Renovation

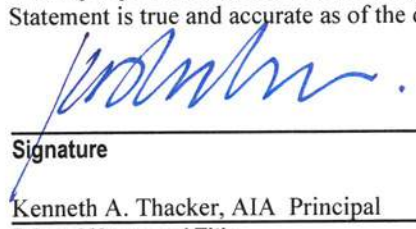
Construction Cost: $ 22,134,786

Completion Date: August 2020

Contractor/Construction Manager: Jamerson-Lewis Construction

§ 7 ATTACHED DOCUMENTS AND ADDITIONAL INFORMATION
(If attachments are provided, list them here.)

ARCHITECT'S REPRESENTATION
I hereby represent that, to the best of my knowledge, the information provided in this Architect's Qualification Statement is true and accurate as of the date below.



Signature

July 26, 2022
Date

Kenneth A. Thacker, AIA Principal
Printed Name and Title

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Additions and Deletions Report for

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PAGE 1

~~*(Insert organization name and address.)*~~Mr. Paul Nichols, Division Superintendent
Mecklenburg County Public Schools
175 Mayfield Drive
Boydton, VA 23917

PROJECT:
REQUEST FOR PROPOSALS (RFP) UNDER PPEA FOR CONCEPTUAL PHASE
ADDITIONS AND RENOVATIONS TO CLARKSVILLE ELEMENTARY SCHOOL
~~(Insert the name and address of the Project.)~~DESIGN-BUILD SERVICES

1696 Noblin Farm Road
Clarksville, VA 23917

...

VMDO Architects, PC

...

200 East Market Street
Charlottesville, VA 22902

...

Charlottesville, VA

...

Ken Thacker, AIA LEED AP
Principal
434-996-0667
kthacker@vmdo.com

...

https://www.vmdo.com/
PAGE 2

VMDO Architects is an award-winning architecture firm made up of educational design specialists. Since 1976, we have focused our practice on customized planning and design for institutional clients. Our design of distinctive, student-centered 21st-century learning environments and personalized services are based on an in-depth understanding

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of our client's needs and aspirations. We strive to create designs that are suited to the needs of a community, support educational programs, offer inspiring learning environments, and translate into meaningful buildings of lasting value.

...

Professional Corporation

...

.3 If your firm is a corporation, identify the type, the state in which it is incorporated, the date of incorporation, and its four highest-ranking corporate officers and their titles, as applicable.

Type of Corporation: S-Corp

State: Virginia

Date Incorporated: February 22, 1988

Four Highest Ranking Corporate Officers: Terry Forbes, President
Tricia Schroeder, Exec. VP, Secretary, Treasurer
Kenneth Thacker, VP
Kelly Callahan, VP

...

46

...

77

...

37
PAGE 3

2020 AIA Virginia Test of Time Award and Architectural Excellence Awards
2020 Virginia School Boards Association Platinum Design Award
2019 Center for the Built Environment Livable Buildings Award
2019 Association for Learning Environments Project of Distinction
2017 AIA Committee on the Environment "Top Ten" Award

...

AIA Central Virginia – Shawn Mulligan (President), Robert Winstead (President Emeritus)
Architecture Construction Engineering (ACE) Mentorship Project - Kelly Callahan
Green Schools National Network Catalyst Quarterly Editorial Board - Wyck Knox
AIA Committee on the Environment "Top Ten" Jury - Michelle Amt

...

Small Business
Virginia
SWaM #657094

...

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Yes

...

No

...

No

PAGE 4

Architectural design services; programming; master planning; interior design; marketing services; community engagement

...

Landscape Architecture

...

Buildings are significant investments, both for our clients and for their communities. The effects of constructing and operating them are felt far beyond the site boundary, and for generations after opening day. At VMDO, we take this responsibility to our clients and to future generations seriously.

We see design as an opportunity to deliver lasting value – for our clients, by enabling them to achieve their goals for healthy environments that support wellbeing; for their communities, by creating public assets that connect to regiona l mobility networks, support ecosystem and watershed health, and increase resilience; and for our global community, by delivering projects that minimize ecological and climate impacts, model new solutions to global challenges, and advocate for transparency and climate action throughout the supply chain. VMDO's evidence-based approach combines best practices, thought leadership, and robust analysis to help our clients make informed decisions. We encourage the use of rating systems and certifications – including LEED, the Living Building Challenge, the WELL Building Standard, and Fitwel – to engage stakeholders in an integrated design process that maintains accountability and integrity of project goals.

Our considerations for performance include:

- **Net Zero Energy.** VMDO is a recognized expert in net-zero energy building design. All of our projects consider zero energy in their designs and most are built as "solar ready." VMDO participates in the AIA 2030 Commitment, an industry initiative to make all new buildings and renovations carbon-neutral by the year 2030. As signatories, we continually monitor and annually report the predicted energy performance of our projects, thereby helping to transform the industry and to build everyone's capacity to address some of the most challenging issues of our time.
- **Water Efficiency.** The energy needed to clean and transport potable water and sewage contributes to our global challenges and burdens our communities and ecosystems. Our projects use water mindfully through efficient fixtures and processes, and rely on alternative resources like captured condensate, rainwater, and greywater in order to further reduce site water demands.
- **Materials.** VMDO advocates for transparency in the environmental and health impacts of building products. In addition to selecting products with lower environmental impacts (including recycled, biobased, and/or local products), we extend the useful life of the products we use by designing for durability, ease of maintenance, and flexibility/adaptability.
- **Regenerative Landscapes.** Our projects capture and cleanse rainfall, restore native habitats, mitigate urban heat island effect and protect the night sky – strategies that are not just good for the environment, but also support wellness, reduce operational costs, and increase resilience.
- **Mobility.** Getting people out of cars is not only good for the environment through lowered emissions; it is also good for our communities and for our health. VMDO designs for people, not cars, and as such we look for opportunities to provide public paths, enhance pedestrian and bicycle safety, and make public transit the easy choice.

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VMDO Net-Zero Energy Leadership + Expertise: VMDO Projects listed below

Buford Middle School
Zero Energy Ready
21 EUI (modeled) | 28.0% Window-Wall Ratio | Airtightness: 0.15 cfm/sf @ 75Pa (target) | HVAC: Ground-source heat pumps + DOAS

Discovery Elementary School
Zero Energy Verified (496 kW 2017)
14.7 EUI (actual) | 26.8% Window-Wall Ratio
Airtightness: 0.123 cfm/sf @ 75Pa (actual)
HVAC: Ground-source heat pumps + DOAS

Cardinal
Elementary School
Emerging Zero Energy (~475kW via PPA 2022)
17.8 EUI (modeled)
26.8% Window-Wall Ratio Airtightness: 0.101cfm/sf @ 75Pa (actual)
HVAC: Ground-source heat pumps + DOAS

Alice West Fleet
Elementary School
Zero Energy Verified
(582 kW via PPA 2021)
17.2 EUI (actual)
21.6% Window-Wall Ratio Airtightness: 0.15 cfm/sf @ 75Pa (target)
HVAC: Ground-source heat pumps + DOAS

Poolesville High School
Zero Energy Ready
28.6 EUI (modeled) | 21% Window-Wall Ratio
Airtightness: 0.15 cfm/sf @ 75Pa (target)
HVAC: Water-source heat pumps + DOAS

Bluestone Elementary School
Emerging Zero Energy (~340 kW PPA 2023)
17.1 EUI (actual) | 24.7% Window-Wall Ratio
Airtightness: 0.16 cfm/sf @ 75Pa (actual)
HVAC: Ground-source heat pumps + DOAS

VMDO certifications and achievements received on past projects:

VMDO has been able to achieve a high level of design quality and client service that has achieved regional, national, and international recognition from a variety of associations, including:

Living Building Challenge / Zero Energy Building Certification of Discovery Elementary School – currently the largest ZE building of any type in the world certified by the International Living Future Institute who oversees the Living Building Challenge.

AIA Committee on Architecture for Education (AIA CAE) Award recognizing educational excellence of Manassas Park Elementary + Pre-K; Manassas Park, VA (2010) and Buckingham County Primary + Elementary; Dillwyn, VA (2014).

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PAGE 6

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...

Mechanical / Electrical / Fire Protection Engineering: CMTA Engineers
Structural Engineering: Springpoint Structural LLC
Civil Engineering: Timmons Group

...

Ken Thacker
Registered Architect: Virginia
Virginia License Number: 0401011680

PAGE 7

Kelly Callahan- Project Architect, 20+ years of experience on K12 projects
Rob Winstead- Educational Planner, 20+ years of experience on K12 projects, environmental sustainability expert

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User Notes: (893539187)

...

Albemarle County Public Schools
Crozet ES, Jouett + Walton Middle School Science Lab Renovation, Brownsville ES
Mr. Matt Wertman
Project Manager
Albemarle County Public Schools
(434) 872-4501 x 3223 mwertman@k12albemarle.org

Harrisonburg City Public Schools
Bluestone Elementary School & Elon Rhodes Early Childhood Learning
Dr. Craig Mackail, Assistant Superintendent/CFO
One Court Square
Harrisonburg, VA 22801
(540) 434-9916
cmackail@harrisonburg.k12.va.us

Buckingham County Public Schools
Buckingham County Primary + Elementary Schools
Cecil C. Snead, II, Ed.D. (Former Superintendent, now with Orange County Public Schools)
200 Dailey Drive
Orange, VA 22960
(540) 661-4550 (office)
csnead@ocss-va.org

...

Jamerson-Lewis Construction
William Cook
President
(434) 845-3468

Nielsen Construction, Inc
Thomas Moomaw
Chief Operations Officer
(540) 432-6134

Gilbane Building Company
Carli Kitto
Project Manager
(703) 312-7240
PAGE 8

Project Name: Discovery Elementary School

Owner: Arlington Public Schools

Brief Description:
Discovery Elementary School is Arlington Public School's first elementary school designed in the 21st century. While built to address rapidly growing student enrollment in Arlington, its design provides a model for 21st century learning and demonstrates how a building can support how and where students learn. The design leverages every nook and cranny of the school to create seamless integration between design, sustainability, and learning.

The school was designed to be a zero-energy building and has been an overall trailblazer for zero-energy schools, both in demonstrating performance and engaging students in the "building as a teaching tool" philosophy. From a custom-designed cloud-based building dashboard that tracks energy data in real-time

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(making it available to educators to use in everyday curriculum), to a rooftop photovoltaic and solar thermal learning lab, to several dozen factoids that feature facts and illustrations – the design prompts students to question, reflect, and become active participants in their school as a teaching tool.

Project Delivery Method: Design-Bid-Build

Size: 97,588 Square Feet New Construction

Construction Cost: $32,710,130

Completion Date: August 2015

Contractor/Construction Manager: CBRE/Heery Formerly: Heery International

...

Project Name: Bluestone Elementary School

Owner: Harrisonburg City Public School

Brief Description:

Nicknamed "the friendly city," Harrisonburg is a designated refugee relocation city. 35% of students identify as English Language Learners, representing over 60 different countries and speaking 58 languages. The design of Bluestone Elementary School embraces cultural diversity while highlighting the relationship between the school and its global context – helping students relate to the larger world while feeling part of a community designed just for them.

The design embraces cultural diversity through design and programming. Near the lobby, a representative international flag exhibit highlights the diversity of the student population. Below the lobby is a Dining Commons that emphasizes the significance of dining, sharing, and gathering as a community. Through a flexible program that promotes learning, activity, and community, the school's architecture celebrates diversity while honoring core values of creativity, expression, and identity.

The design of the school also provides a variety of spaces for all scales of learning and welcoming public areas. The school features 3 floors, including 42 core learning studios organized into grade-level "neighborhoods." Neighborhoods support differentiated learning by providing a variety of core learning spaces, breakout areas, and teacher resource rooms that can be leveraged in different ways to support desired levels of autonomy and collaboration. The school also maximizes views of the Shenandoah Valley and other natural surroundings. A wayfinding system celebrates Harrisonburg's unique geography and ecology.

Project Delivery Method: Design-Bid-Build

Size: 103,700 Square Foot New Construction

Construction Cost: $26,682,344

Completion Date: August 2017

Contractor/Construction Manager: Nielsen Builders, Inc

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Project Name: Alice Fleet Elementary School

Owner: Arlington Public Schools

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Brief Description:

Reflecting a strongly-voiced community desire to "build up, not out," Fleet Elementary School is Arlington's first four-story elementary school – and one of the first in the Mid-Atlantic. The school is also the second of three net zero energy schools for Arlington Public Schools (APS). In part because of APS' commitment to net-zero energy, Arlington County was the first locality in Virginia to commit to 100% renewable electricity by 2035. Fleet Elementary School features a 500kW rooftop solar array with geothermal heating and cooling as well as numerous design innovations that reduce the school's carbon footprint while maximizing energy savings for the school district.

The school embraces the community scale of the residential neighborhood with a welcoming double-height entry while situating a four-story educational wing on its compact, triangular site. In deference to the neighborhood context, the building "steps back" as it "goes up" – placing the fourth story portion of the building closest to the center of the site and as far away from houses as possible. The building sits on a podium over two levels of structured parking that can accommodate 228 parking spots.

Sited adjacent to a middle school, park, and recreation center, Fleet Elementary School transforms a former parking lot into an educational landscape that improves accessibility, connectivity, and environmental conditions for the benefit of the entire 20-acre site. Despite adding a compact 38,820 SF footprint, no increase in impervious area occurred. The design team facilitated community buy-in and built confidence by ensuring a cohesive park was retained and that no significant loss of green space and no net loss of recreational programming occurred. Traffic, parking, and pedestrian walkways / bikeways were closely studied and designed to provide streamlined transportation options and optimal safety and security. All parking is under the building and integrated stormwater cleansing and retention is provided on-site through best management practices.

Project Delivery Method: Design-Bid-Build

Size: 109,988 Square Feet New Construction

Construction Cost: $48,512,206

Completion Date: September 2019

Contractor/Construction Manager: MBP (McDonough, Bolyard, Peck)

...

Project Name: Cardinal Elementary School

Owner: Arlington Public Schools

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Opened in September 2021 as VMDO's third net zero energy school in Arlington, Cardinal Elementary School sets new standards for design excellence in sustainability, energy performance, and innovative learning environments for Arlington Public Schools. Cardinal Elementary follows in the footsteps of the NZE milestone established by Discovery Elementary and the four-story NZE school precedent established by Fleet Elementary. However, different from these previous projects, Cardinal is actually an addition to the existing Reed School/Westover Library and features a significant renovation scope that optimizes existing building stock to achieve net-zero energy. Building on lessons learned in NZE design and construction, this project features the lowest embodied energy of VMDO's previous NZE projects.
Cardinal Elementary reflects the often-repeated desire among Arlington residents to "build up and not out." A fully accessible walkway stretching around the perimeter of the school includes space for outdoor classrooms alongside new fields and playgrounds that are open to community use outside of school hours. The addition includes school administrative offices, classrooms, a gymnasium, kitchen, cafeteria, and teacher support

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areas. The renovated areas include new music/art rooms, a library, classrooms, teacher support areas, and other building support spaces.

Project Delivery Method: Design-Bid-Build

Size: 110,500 Square Feet New Construction

Construction Cost: $55,000,000

Completion Date: September 2021

Contractor/Construction Manager: Gilbane Building Company

...

Project Name: Forest Middle School Addition + Renovation

Owner: Bedford County Public Schools

...

The Forest Middle School renovation and expansion increases capacity to 1,200 students with a new addition featuring a new secure entrance, competition gymnasium, additional arts and media spaces, a courtyard, and, most importantly, new transformational learning environments for 6th, 7th, and 8th graders.

The much anticipated addition remedies the 25-year reliance on temporary mobile classroom units, which have long posed environmental, operational, and safety concerns. The new addition enhances outdoor space with a central, sheltered courtyard that offers students and teachers an enclosed, landscaped environment for a wide range of learning activities.

Within the expanded school, learning is made visible – engaging students and enhancing a sense of community among faculty, staff, and students. Differently-sized learning studios, seminar spaces, huddle rooms, and study booths complement classrooms in the addition and support student passions, while also empowering CTE and STEM project work with places that inspire creation and collaboration.
In the existing building, a reinvigorated central spine clarifies circulation and reinforces Bedford County's "focus on learners" by transforming scattered classrooms into a learner-centered central commons.

Owner's representation on this project was provided by SKANSKA with an on-site Clerk of the Works. This service was an invaluable complement to the design team, offering us full-time "eyes and ears on the site." In addition, SKANSKA facilitated an "Owner Direct Purchase" program for our client, taking advantage of the school division's tax-exempt status and saving thousands of dollars in the process.

Project Delivery Method: Design-Bid-Build

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75,000 Square Foot Addition
99,000 Square Foot Renovation

Construction Cost: $ 22,134,786

Completion Date: August 2020

Contractor/Construction Manager: Jamerson-Lewis Construction

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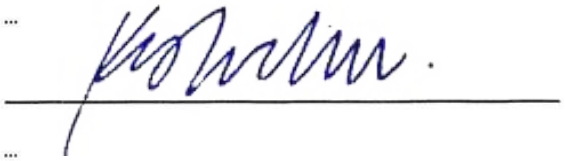

July 26, 2022

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Kenneth A. Thacker, AIA Principal

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Certification of Document's Authenticity

AIA® Document D401™ – 2003

I, Kenneth A. Thacker, AIA, hereby certify, to the best of my knowledge, information and belief, that I created the attached final document simultaneously with its associated Additions and Deletions Report and this certification at 17:00:14 ET on 07/26/2022 under Order No. 2114341171 from AIA Contract Documents software and that in preparing the attached final document I made no changes to the original text of AIA® Document B305™ – 2021, Architect's Qualification Statement, as published by the AIA in its software, other than those additions and deletions shown in the associated Additions and Deletions Report.

(Signed)

PRINCIPAL

(Title)

26. JULY. 2022

(Dated)

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Fauquier High School

TAB 6 | DESIGN-BUILD MANAGEMENT APPROACH

*Please refer to **Volume II, Redacted Proprietary Information**, for a thorough description of our proprietary Design-Build methodology.*

Liberty University Library
Branch | VMDO Partnership

TAB 7 | PROPOSAL FORMS

REQUEST FOR PROPOSALS (RFP) #CESPPEA-2022-01
CONCEPTUAL PHASE
ADDITIONS AND RENOVATIONS TO CLARKSVILLE ELEMENTARY SCHOOL
DESIGN-BUILD SERVICES
UNDER THE VIRGINIA PUBLIC PRIVATE EDUCATION FACILITIES AND INFRASTRUCTURE ACT (PPEA)

RFP ISSUANCE DATE: June 30, 2022

SOLICITATION TITLE: Design-Build of Additions and Renovations to Clarksville Elementary School

PROPOSAL DUE DATE: July 28, 2022 no later than 2:00 pm Local Time.

SUBMIT: Six (6) Complete copies and one (1) electronic copy (PDF) on a USB drive to:

Mr. Paul Nichols, Division Superintendent
Mecklenburg County Public Schools
175 Mayfield Drive
Boydton, Virginia VA 23917

FAX OR EMAIL SUBMISSIONS ARE NOT ALLOWED.

LOCATION WHERE WORK WILL BE PERFORMED:

1696 Noblin Farm Road
Clarksville, VA 23917

MANDATORY PRE-PROPOSAL CONFERENCE: July 12, 2022 at 10:00 am at Clarksville Elementary School located at 1696 Noblin Farm Road in Clarksville, Virginia.

DEADLINE FOR QUESTIONS: July 21, 2022 at 5:00 pm Local Time. All questions should be submitted in writing by the deadline to the contact noted below.

The Request for Proposals (RFP) can be downloaded at: https://mcpsweb.org/

NOTE: ALL ADDENDA CAN BE ACCESSED AT THE WEBSITE ADDRESS ABOVE. It is the responsibility of interested parties to obtain any addenda via the website. For inquiries contact:

Curtis Elswick, Skanska USA Building Inc. (Owner's Representative)
Phone: 540-423-2860
Email: curtis.elswick@skanska.com

In compliance with this Request for Proposal and subject to all the conditions thereof, the undersigned offers to furnish the goods/services requested and certifies that he/she has read, understands, and agrees to all terms, conditions and requirements of this RFP and is authorized to contract on behalf of the firm named below.

My signature on this solicited proposal constitutes certification that I or my designated representative have inspected the job site and am aware of the conditions under which the work must be accomplished. Claims, as a result of failure to inspect the job site, will not be considered by MCPS. By my signature on this solicited proposal, I certify that this firm/individual is properly licensed for providing the goods/services specified.

The Undersigned certifies that they are the only person(s) interested in said Project and that it is made without connection with other persons submitting a proposal on the same scope of services; that the proposal is made without collusion, fraud, or reservation; that no official or employee of the Owner is directly or indirectly interested in said proposal, or any portion thereof.

7 | PROPOSAL FORMS

PROPRIETARY INFORMATION YES ( ) NO (✓)

Trade secrets or proprietary information is hereby submitted and identified. Reasons for protection and exclusion from the Virginia Freedom of Information Act (2.2-3700 et seq.) are set forth below. (Additional sheet may be added if necessary.)

Proposers should indicate on the Cover Sheet the portions of their proposal that are proprietary. Please list the page numbers and the reason(s). Do not mark the whole proposal proprietary. If Proprietary Information is stated, Proposers shall submit One (1) Original and One (1) Redacted copy (removing any proprietary data of material). Clearly identify on the Cover Sheet the "Original" and "Redacted" copy as "Redacted Copy of Original Proposal" RFP# CESPPEA-2022-01.

This form must be signed in ink and all signatures must be original.

Company Name: **Branch Builds, Inc.**

Street Address: **3635 Peters Creek Road**

City, State, Zip: **Roanoke, VA 24019**

Telephone: **540-989-5215**

Fax: **540-989-0883**

Email Address: **cathyu@branchbuilds.com**

Check One:

☐ Individual ☐ Partnership ☑ Corporation, State in which Incorporated **VA**

Federal Tax ID: **54-1393120**

Federal Social Security No. (Sole Proprietor): **N/A**

Business Classification (check all that apply):

☐ Minority Owned ☐ Women Owned ☐ Small Business

Print Name: **Catherine Underwood**

Title: **President**

Signature: Catherine Underwood

Date: **7/27/2022**

ACKNOWLEDGE RECEIPT OF ADDENDUM:

Number **1** Dated **7/13/22** Initial CU

Number **2** Dated **7/21/22** Initial CU

Number _____ Dated _____ Initial _____

Number _____ Dated _____ Initial _____

BRANCH BUILDS

VMDO

7 | PROPOSAL FORMS

***SCC Requirement per the Virginia Public Procurement Act, VPPA:**

§ 2.2-4311.2. Compliance with state law; foreign and domestic businesses authorized to transact business in the Commonwealth.

A. All public bodies shall include in every written contract a provision that a contractor organized as a stock or nonstock corporation, limited liability company, business trust, or limited partnership or registered as a registered limited liability partnership shall be authorized to transact business in the Commonwealth as a domestic or foreign business entity if so required by Title 13.1 or Title 50 or as otherwise required by law.

B. Pursuant to competitive sealed bidding or competitive negotiation, all public bodies shall include in the solicitation a provision that requires a bidder or offeror organized or authorized to transact business in the Commonwealth pursuant to Title 13.1 or Title 50 to include in its bid or proposal the identification number issued to it by the State Corporation Commission. Any bidder or offeror that is not required to be authorized to transact business in the Commonwealth as a foreign business entity under Title 13.1 or Title 50 or as otherwise required by law shall include in its bid or proposal a statement describing why the bidder or offeror is not required to be so authorized.

C. Any bidder or offeror described in subsection B that fails to provide the required information shall not receive an award unless a waiver of this requirement and the administrative policies and procedures established to implement this section is granted by the Director of the Department of General Services or his designee or by the chief executive of a local governing body.

D. Any business entity described in subsection A that enters into a contract with a public body pursuant to this chapter shall not allow its existence to lapse or its certificate of authority or registration to transact business in the Commonwealth, if so required under Title 13.1 or Title 50, to be revoked or cancelled at any time during the term of the contract.

E. A public body may void any contract with a business entity if the business entity fails to remain in compliance with the provisions of this section.

***Virginia State Corporation Commission ("SCC") registration information: The undersigned Proposer:**

☑ is a corporation or other business entity with the following SCC identification number:

295633-2 **-OR-**

☐ is not a corporation, limited liability company, limited partnership, registered limited liability partnership, or business trust **-OR-**

☐ is an out-of-state business entity that does not regularly and continuously maintain as part of its ordinary and customary business any employees, agents, offices, facilities, or inventories in Virginia (not counting any employees or agents in Virginia who merely solicit orders that require acceptance outside Virginia before they become contracts, and not counting any incidental presence of the Offeror in Virginia that is needed in order to assemble, maintain, and repair goods in accordance with the contracts by which such goods were sold and shipped into Virginia from Offeror's out-of-state location) **-OR-**

BRANCH BUILDS

VMDO

☐ is an out-of-state business entity that is including with this proposal an opinion of legal counsel which accurately and completely discloses the undersigned Offeror's current contacts with Virginia and describes why those contacts do not constitute the transaction of business in Virginia within the meaning of § 13.1- 757 or other similar provisions in Titles 13.1 or 50 of the Code of Virginia.

****NOTE**>>** Check the following box if you have not completed any of the foregoing options but currently have pending before the SCC an application for a certificate of authority to transact business in the Commonwealth of Virginia and wish to be considered for a waiver to allow you to submit the SCC identification number after the due date for proposals (the Commonwealth reserves the right to determine in its sole discretion whether to allow such waiver): ☐

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ROANOKE, VA
540-989-5215

RICHMOND, VA
804-525-5458

HERNDON, VA
703-368-3500