Hampton Aquatics Center
PPEA Proposal - Updated Submission

Clancy & Theys Construction Company

AND

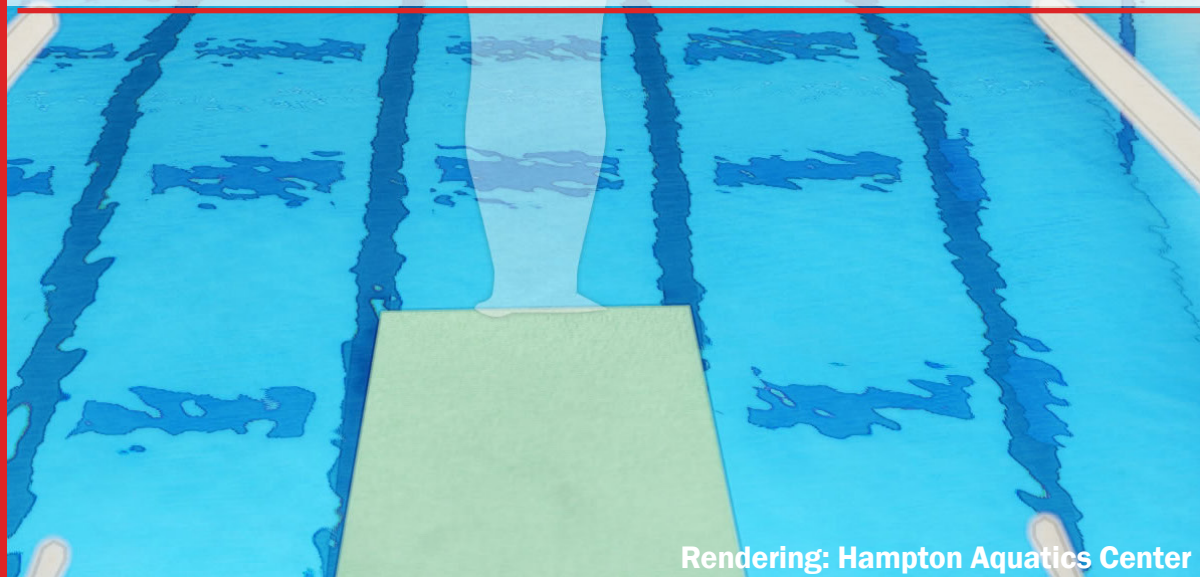
GuernseyTingle

WITH

Water Technology, Inc.
Kimley-Horn
b2E Consulting Engineers, P.C.
Speight, Marshall & Francis, P.C.
TAM Consultants, Inc.
The Miles Agency

Due: December 20, 2018

VOLUME 1 - COPY



Rendering: Hampton Aquatics Center

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CLANCY &THEYS
CONSTRUCTION COMPANY

www.clancytheys.com

December 20, 2018

Lin Whitley
Deputy Director of Finance for Procurement
City of Hampton
1 Franklin Street, 3rd Floor
Hampton, Virginia 23669

Ms Whitley:
In June, our Design-Build team—composed of the most reputable and experienced local, national, and international talent—submitted an unsolicited PPEA proposal for the Hampton Aquatics Center. Our proposal presented a facility that would help fill the voids in both the recreational opportunities and competitive swimming and diving facilities in our community.

We understand the City Council wishes to consider two options for the aquatics center and are delighted to submit our updated proposal based on the Council's request.

The following items in this volume have been updated from our original submission:

- Executive Summary (Pages 1-3)
- Section 1: Question B - Removal of Lee Maizel's Resume
    - Clancy & Theys' Virginia Division has recently hired a new EH&S Manager, who will be taking Lee's place in the New Year. We have included the resume of our EH&S Director, Steve Fuller, who oversees and facilities our company's safety program. (Page 26)
- Section 1: Question B - Addition of Claude Rogers' Resume (Page 73)
- Section 2: Question A (Pages 111-124)
- Section 2: Question E (Pages 126-127)
- Section 4: Question A (Pages 135-136)
- Section 4: Question B (Pages 136-137)
- Section 4: Question C (Pages 137-138)
- Section 4: Question D (Pages 138-139)

We truly believe the Hampton Aquatics Center can benefit our entire community for decades to come and would be honored to be chosen as the team to bring this long awaited project to fruition.

Enclosed are one original and 10 copies of our updated Conceptual Design PPEA Proposal Volumes 1 and 2, as well as a PDF copy of each. Please do not hesitate to contact me if you have any questions or require additional information. I can be reached at 757.873.6869 or billgoggins@ clancytheys.com.

Sincerely,

William J. Goggins
Vice President & CEO, Virginia Division
Clancy & Theys Construction Company

APPENDIX II - PPEA Proposal Submission Certification Form

Proposer's Name: Clancy & Theys Construction Company

Proposer's Address:

11830 Fishing Point Drive

Suite 201

Newport News, VA 23606

Proposer's:

Telephone No: 757.873.6869

Facsimile No: 757.873.7630

E-mail Address: billgoggins@clancytheys.com

Proposer's Virginia Class-A General Contractor's License Number: 2701 022003A

The proposer acknowledges receipt of the following addenda, if any:

Addendum No. _____ Dated_____
Addendum No. _____ Dated_____
Addendum No. _____ Dated _____

After first being placed under oath, I hereby certify that I have authority to submit this proposal on behalf of the proposer whose name appears above, that I am a principal of the proposer, that the proposer hereby agrees to all of the terms and conditions of the solicitation for this procurement and in the City of Hampton's _____, PPEA Implementing Guidelines, that neither the proposer nor any member of its team or its principals is currently suspended or debarred from public contracting by any federal, state or local government entity, that I have taken reasonable steps to ascertain the accuracy of all the information contained in this proposal and this certification, and that the information in this proposal and certification is accurate to the best of my knowledge or information and belief.

Signature

William J. Goggins

Printed/Typed Name

Vice President & CEO, Virginia Division

Title (Principal or Proposer)

Commonwealth of Virginia :

: to wit

County/City of Newport News:

On December 18, 2018, William J. Goggins, (same name as above) appeared before me, and after satisfying me of his/her identity and after being placed under oath, swore to the truthfulness of the above statement.

Notary Public

My commission expires: December 31, 2018 Notary Registration No: 7265939

HOLLY-EVERITT McGUIRE
Notary Public - Reg. # 7265939
Commonwealth of Virginia
My Commission Expires Dec. 31, 2018

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EXECUTIVE SUMMARY

Rendering: Hampton Aquatics Center

Clancy & Theys Construction Company, in association with our Design Team led by GuernseyTingle, is pleased to submit our updated PPEA proposal for the Hampton Aquatics Center. Within our proposal, we have provided the required information as outlined in the City's PPEA Guidelines, which were approved on May 9, 2018.

Our proposal is comprised of two volumes: one public and one private version. Information that is considered confidential or proprietary has been removed from Volume 1, the public version, and inserted into Volume 2, the private version. We request that the information in Volume 2 be kept private, as it is protected from disclosure under the Freedom of Information Act (FOIA).

We have included ample information about our team's qualifications and experience, a thorough overview of the project, an explanation of the project's financing, and an overview of the many benefits of the Hampton Aquatics Center. These will not only reaffirm the need for this project, but also show that our team ***IS*** the team that can successfully bring this project to fruition.

OUR TEAM

- Composed of the **most reputable** local, national, and international talent
- Team members are based **locally in Hampton Roads** and/or have experience in the region
- Five design team members are **SWaM-certified businesses**, including four based locally in Hampton Roads
- Each team member has **aquatics center and recreational facility experience**
- Team includes i**nternationally-recognized** aquatics experts, Water Technology, Inc.
- Water Technology, Inc. has completed more than **3,000 projects**
- Heading the Water Technology, Inc. team is Steve Crocker who has experience as an **elite swimmer**, a **coach**, and as the **subject matter expert** for competitive aquatic facilities at Counsilman Hunsaker, prior to joining Water Technology, Inc.

HUNDREDS of aquatic centers completed

LONG-STANDING RELATIONSHIPS and experience working together

HUNDREDS of projects completed in Hampton Roads

Our Aquatics Experts
Water Technology, Inc. & b2E
8 years | **5** projects

Clancy & Theys & GuernseyTingle
7 years | **3** projects

Clancy & Theys & Kimley-Horn
10 years | **8** projects

Clancy & Theys & Speight, Marshall & Francis
15 years | **20+** projects

GuernseyTingle & Water Technology, Inc.
11 years | **2** projects

GuernseyTingle & Speight, Marshall & Francis
8 years | **29** projects

GuernseyTingle & TAM
17 years | **500+** projects

GuernseyTingle & The Miles Agency
Several projects in Hampton Roads

THE PROJECT

- **Combines** the functions of a 50 meter competitive pool with a 25 yard program pool
- A **flexible facility** that can be used for multiple aquatic events and activities
- Can be used by **multiple groups**, from local residents to college swim teams
- Meets **local and regional** competitive swimming and diving needs
- **Repurposes** an existing, blighted site
- Designed with the City's **needs** in mind
- **Two options** provided to allow the City to choose what is best to meet their needs

WHO WILL BENEFIT FROM THE HAMPTON AQUATICS CENTER?

- ✓ The *entire* community, from youth to families to seniors
- ✓ Local business
- ✓ Local/regional aquatic programs, including high school, club and college teams
- ✓ The Coliseum Central District
- ✓ The City of Hampton

THE BENEFITS

- **Enriches** the community aquatics programs
- Provides **learn to swim and water safety opportunities**, which can decrease drownings
- Offers **ample** recreational activities
- Creates **new experiences** for children and adults alike
- **Replaces** outdated/closing pools in the community, including the pool at the beloved Hampton Center for Health and Fitness
- Provides a variety of **job opportunities** for multiple age groups
- **Incentivizes** private investment in the Coliseum Central District
- **Increases** revenue to hotels, restaurants, retail, and other businesses in the Coliseum Central district and throughout the City
- Increases **sports tourism opportunities** for the City
- Aligns with the City's **vision and goals**

"This facility could have all kinds of programs -- lessons, club swimming, high swimming, senior citizens groups, water aerobics, lifeguarding classes, lap swimming, walking for the injured/disabled, training for rescue groups and more. The whole community would benefit!"

HAROLD BAKER | HEAD COACH & FOUNDER OF WILLIAMSBURG AQUATICS CLUB

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SECTION 1: QUALIFICATION AND EXPERIENCE

Photo: Triangle Aquatic Center

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.

To successfully complete the Hampton Aquatics Center project, we have organized a team of qualified professionals who have a reputation within our community as being some of the best within the industry. This team was specifically chosen for this project based not only on our expansive portfolios, but also on our extensive experience working together as well.

Our team has chosen to utilize a design-build approach for this project. We find the spirit of collaboration that is intrinsic to a team build approach results in the most successful projects and most satisfied clients. Legally, our team will be guided by AIA Contract A141-2014. A copy of this contract can be found in Tab 1 of Volume 2 of our proposal, as this document is considered confidential or proprietary information and is therefore protected from disclosure under FOIA.

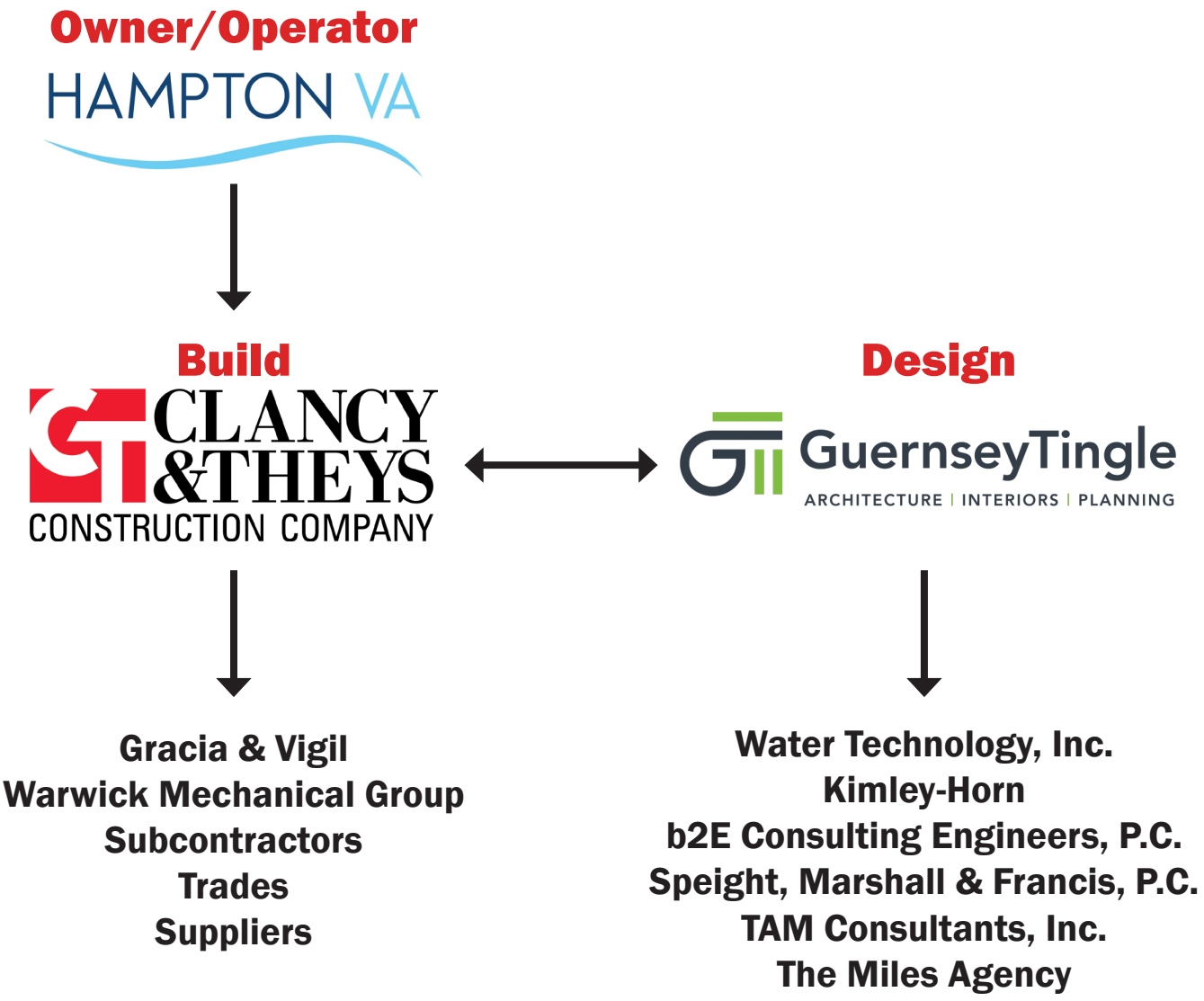
Clancy & Theys Construction Company will serve as the Design-Builder for this project. We have already engaged our most critical subcontractors, which include Gracia & Vigil (for the pool) and Warwick Mechanical Group. GuernseyTingle will take the lead on design as the project's architect and will lead a team of design professionals including: Water Technology, Inc., Kimley-Horn, b2E Consulting Engineers, P.C., Speight, Marshall & Francis, P.C., TAM Consultants, Inc. and The Miles Agency.

Overall, the team build approach will be led by Bill Goggins of Clancy & Theys Construction Company and Tom Tingle of GuernseyTingle. They will serve as the initial points of contact in the early stages of the design phases and provide overall leadership for the duration of the project. During the

design phases, GuernseyTingle will lead the charge, while collaborating closely with all of the A/E consultants and Clancy & Theys. During the pre-construction and construction phases, Clancy & Theys will assume leadership and be responsible for administering and managing the entire job.

For the duration of the project, our team will function as one, collaborative unit. From the early design phases to project closeout, we will remain in constant communication with each other, as well as with the City of Hampton, regarding all aspects of this project.

The structure of our team is represented in the organizational chart below. The qualifications of each of our team members can be found in our response to question B on pages 5-103.



B

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, and prior experience bringing similar projects to completion on budget and in compliance with design, land use, service and other standards. 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. Provide resumes of the key individuals who will be involved in the project.

DESIGN-BUILD TEAM

Clancy & Theys Construction Company was founded in Raleigh in 1949. The firm builds high-quality buildings for their clients, with promise to do it with fairness and integrity.

The company is listed among the top U.S. builders and top Green builders of office buildings, warehouse and distribution centers, multi-family, hotels, cultural buildings, and reconstruction and renovation projects. Other specialties include sport and recreation facilities, research and development facilities, education buildings, and museums. The company's work in the past decade has primarily focused on projects involving team approaches to design and construction, including Design-Build and Construction Management at-Risk.

Clancy & Theys is a nationwide company with five offices located on the East Coast. The Virginia Division, which has been located in Newport News for 29 years, will serve as the principal office for this project. While the firm has followed key clients to build in California, Connecticut, South Carolina, Washington, Missouri, Georgia, Oklahoma, Texas, Mississippi, Illinois, West Virginia, Maryland, and Pennsylvania, they have become a leading builder in Hampton Roads. Over the years they have built long-standing relationships with owners and design teams, including GuernseyTingle and with many other members of this project team. Having completed hundreds of projects within the region, Clancy & Theys has had the privilege of working with repeat clients including Dollar Tree, Canon, Coastal Hospitality Associates, Greystar, Collins Enterprises, and a variety of local colleges and universities.

Construction is not like manufacturing. Every building is unique, not an exhaustively-tested product assembled over and over. Similarly, every site is unique. Delays, changes, and unforeseen conditions add risk. Clancy & Theys reduces inherent risks through their due diligence process and using lessons learned from previous projects. Their vast expertise and use of advanced technology allows them to successfully turn potential problems into innovative solutions; to maintain schedules and budgets; and to deliver high-quality projects, that exceed expectations.

GRACIA & VIGIL
The GraceHill Group Corp.
COMMERCIAL SWIMMING POOLS

Gracia & Vigil is a class A contractor that constructs commercial concrete swimming pools, whirlpools, splash pads, fountains, rockwork and water features for Recreational Facilities, Hospital/ Therapeutic Facilities, Water Parks, Hotels, Apartments, and custom residential projects. Over the last 33 years, Gracia & Vigil has established itself as the most relied upon swimming pool contractor in Southeastern Virginia. As a regional contractor, they can provide the best experienced team for Project Blue, as well as unsurpassed support during the life of the facility.

Gracia & Vigil performs 100% of their work with in-house personnel and all key employees have been with the firm since its inception. They have completed over 685 projects and are fully seasoned from AutoCAD drawings to Owner Training and Operations. Their staff also includes a registered professional engineer.

Warwick Mechanical Group is one of the largest mechanical contractors in Virginia with over 65 years of experience in heating, ventilation, air-conditioning, process piping, and plumbing. Extensive experience and expertise, along with a sincere dedication to excellence and service, contributes to their reputation as one of the region's most respected full service mechanical contracting firms.

Their team of more than 350 employees includes engineers, designers, supervisors, estimators, purchasers and talented craftsmen who are equipped with the latest tools; whether state-of-the-art computers and software, or the newest welding, cutting and material handling equipment. This strong team of associates and equipment, combined with the company's ability to coordinate large crews of skilled technicians, assures the prompt on-schedule delivery of quality projects

Warwick Mechanical Group is uniquely qualified as the mechanical contractor on this project. They bring with them to the design-build team licensed engineers, seasoned project managers, three full-time safety professionals, a team of experienced mechanical craftsmen that can accommodate any schedule without compromising quality, and significant natatorium experience.

Warwick Mechanical Group also has established long-term relationships with many members of the design-build team, including Clancy & Theys. Over the last 25 years they have completed more than 50 projects with the Clancy & Theys team, totaling more than $170,000,000.

DESIGN TEAM

Based on the Virginia Peninsula with an architectural, planning and interior design staff of 23, **GuernseyTingle** is small enough to provide personal attention, yet large enough to respond quickly and thoroughly. The firm works in a studio atmosphere to design unique facilities with architectural character that responds to the context of the particular project. Professional staff includes 12 licensed architects, 2 interior designers and 4 LEED accredited professionals.

GuernseyTingle works with a variety of building types, focusing on aquatics facilities, parks and recreation projects, residential development, planning, fitness and wellness centers, dining, and municipal facilities. The firm's numerous awards and publications in regional and national periodicals reflect positively on its design abilities. However, the focus of the practice is problem solving, providing creative solutions for our client's needs.

Joining the design team is **Water Technology, Inc.**, a firm GuernseyTingle has teamed with for 11 years. The firm has completed hundreds of successful projects for competitive venues, swim clubs and school districts. The WTI team brings a highly qualified

team of creative architects, engineers, designers and business developers/administrators, all with a passion for aquatics. Heading the WTI team is Steve Crocker, Director of Sports Swimming. His career started over 30 years ago as an elite swimmer, representing the USA National Team, giving the unique perspective of the athlete when with working with the City of Hampton for this project. Steve has been with Water Technology for 4 years and previously was the subject matter expert for competitive aquatic facilities at Counsilman Hunsaker for 11 years. His experience as an athlete and coach gives our team the experience Hampton needs to make this project successful.

Kimley»Horn **Kimley-Horn** is one of the nation's premier planning and site design consulting firms. Founded in 1967 in Raleigh, NC, Kimley-Horn has evolved into a multidisciplinary consulting firm offering services to federal, state, and local governmental agencies; developers; and commercial, industrial, and agricultural interests.

Kimley-Horn has provided a broad scope of services for athletic facilities nationwide, including municipal and community recreational facilities, park and aquatic facility master planning and design, university athletic facilities, and National Football League (NFL) and Major League Baseball (MLB) stadiums and arenas.

Kimley-Horn's nationwide aquatics planning and design team has developed five to 10 aquatic planning and design projects per year for the past 15 years. Our aquatic planning and design team excels at the public planning process for aquatic projects and has received dozens of awards for aquatic designs nationwide.

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b2E Consulting Engineers, P.C. is a service oriented engineering consulting firm based in Leesburg, Virginia. B2E has been inbusiness for over 20 years. b2E specializes in sustainable energy efficient design for mechanical, plumbing, electrical and technology building systems.

The b2E design team has been working on recreation center projects over 20 years since 1991. We have designed many recreation centers with aquatic components. Mr. Beddow has worked in Europe and the USA designing indoor swimming pools for 25 years. The b2E design team has successfully handled over 600 projects (more than 15 million square feet) with estimated construction costs as low as $100,000 to ones with construction costs over ninety million dollars.

Speight, Marshall & Francis, P.C. is an award-winning structural engineering and Special Inspections firm registered as a small business with the Commonwealth of Virginia and the federal government. With offices in Virginia Beach and Richmond, they employ professionals licensed to practice in 29 states; and although the firm performs structural services for projects around the nation, they focus on projects primarily in the Hampton Roads area of Virginia. Project experience spans a variety of related projects including pools, stadiums, recreation centers, and entertainment venues. The firm has performed a number of projects with GuernseyTingle and Clancy & Theys Construction Company. Their staff has practical experience and qualifications with providing all of the structural engineering services that would be required for the proposed PPEA project. Considered a forerunner in the area for LEED and Building

Information Modeling (BIM) design, the firm has become known for their common sense, cost-effective, and innovative structural engineering design solutions that meet each client's unique long and short-term goals. Exceptional responsiveness to client requests and their assertive "can do" mentality distinguishes them from the industry standard.

TAM CONSULTANTS

TAM Consultants, Inc. is a small project management, engineering and design firm offering an array of solution-based professional services. Their team of award-winning industry professionals have worked with property owners, private developers, architects, contractors, local municipalities and state departments for more than 30 years. TAM's engineers have provided services for residences, schools, laboratories, offices, manufacturing facilities, and federal and local public projects, ranging from small studies and reviews to multi-million dollar projects. Their enclosure services includes both pre-construction planning and design services as well as construction quality assurance support. They provide these services for both simple and highly complex building types and uses for all types of construction. For these complex projects with many team members they are tasked with providing opinions regarding building and construction detailing to assist the team in producing better documents, better buildings that are more efficient and more durable.

THE Miles AGENCY
NICHE MARKETING AND PUBLIC RELATIONS

The Miles Agency, established in 1989, is a niche marketing and public relations firm based in Virginia Beach, Virginia. They are 100% minority- and woman-owned, SWaM-certified and arguably the oldest minority PR firm in the region. The firm specializes in creating and developing programs through advertising, public and community relations, and promotions that communicate specific messages to target groups (niches) in the market place. They use research methods to help develop a marketing strategy or plan customized to their clients' needs. They use such methods as focus groups, SWOT Analysis, telephone and in-person interviews, surveys or group discussions The agency's specialties are community outreach and multicultural marketing. They develop public involvement plans to help heir clients maintain open communications and transparency for their projects or studies. They have successfully worked with such clients as HRSD, the cities of Chesapeake, Virginia Beach, Norfolk, Portsmouth, Richmond, Newport News as well as the United States Navy, Norfolk Public Schools, Fort Monroe Authority, Hampton Roads Transit, Coca-Cola, Pizza Hut, Virginia Power, Norfolk State University, Old Dominion University, Hampton University to name a few.

FEATURED AQUATIC CENTER PROJECT:
TRIANGLE AQUATIC CENTER

The Triangle Aquatic Center is the largest public aquatic facility in North Carolina. This 59,347 square foot, two-story facility includes an eight-lane, 50-meter indoor pool, an indoor teaching pool, an outdoor teaching pool, spectator seating for 1,000, and supporting amenities.

The Competition Pool is 50 meters long by 25 yards wide. One moveable bulkhead allows for long or short course events as well as the hosting of water polo, synchronized swimming and other aquatic events. To meet competition needs, the pool can be configured as 8 long-course lanes or 18 short-course lanes and can support up to 23 short-course training lanes. The pool ranges in depth from 7 feet to 12 feet at the short-course competition end. Water temperature is maintained between 79-81 degrees. Two matrix scoreboards for results and competitor names are located above the competition pool.

The 25-yard training pool is available for lap swimming, swim lessons, aqua fitness classes and general swimming.

A warm water instructional pool provides an inviting and comfortable atmosphere for beginner swimming classes as well as therapy or rehabilitation for adults.

The facility has supporting amenities such as locker rooms, program space, offices, and a snack bar and a swimming-related retail space.

PROJECT INFORMATION

Location:	Cary, North Carolina
Size:	59,347 sq ft

OWNER INFORMATION

Triangle Aquatic Center
275 Convention Drive
Cary, NC 27511
Michael G. Curran | 919.459.4045

FEATURED DESIGN-BUILD SPORTS/TRAINING FACILITY:
ADVOCARE SPORTS PERFORMANCE CENTER AT THE GREENBRIER

This project was completed in just 124 days to ensure the facility was finished in time for the New Orleans Saints to begin their preseason training camp. In addition to the new 53,400 sq ft, two-story building, the project consisted of a massive site package including: three regulation football fields, over 500,000 cubic yards of shale infill, brick pavers, cobblestone curbs, and detailed landscaping. The Performance Center serves as a multi-functional facility for athletic training, physical therapy, and major events. The facility includes a physical therapy suite, NFL weight and locker rooms, and a large hydro-pool. Numerous multi-purpose rooms and large terraces on the second floor allow viewing of the three new practice fields. State-of-the-art audio and video systems in the weight room and the large meeting rooms enhance training and coaching interactions.

Integral to the project were the three football fields— two sod and one synthetic turf. The two sod fields are regulation-size and are positioned side-by-side with a 30-foot run-off perimeter. These three fields required advanced coordination and design.

PROJECT INFORMATION

Location:	White Sulphur Springs, West Virginia
Size:	53,400 sq ft

OWNER INFORMATION

The Greenbrier
White Sulphur Springs, WV
Doug Balsley
607.744.1060

ARCHITECT INFORMATION

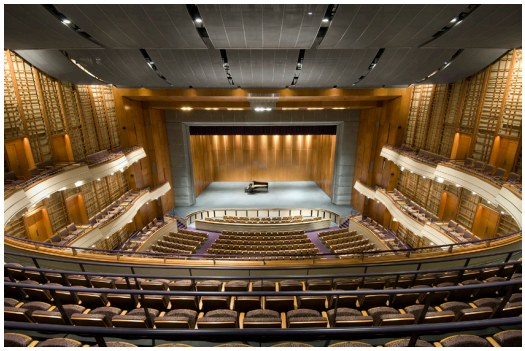
LCM Company
Lexington, KY
Frank Culberson
fculberson@lcmcompany.com

FEATURED DESIGN-BUILD PROJECT FOR A CITY:
SANDLER CENTER FOR THE PERFORMING ARTS

Clancy & Theys Construction Company, on a design-build contract, delivered the 1,298-seat Performing Arts Theatre for the City of Virginia Beach. At four stories, the theatre's front façade is transparent, allowing the interior public lobbies to be visible from the piazza. Seating is provided for 1,298 in standard aisle arrangement including two balcony levels. The theatre is fully appointed and backed by the full complement of spaces needed for such a venue. These spaces include a world class rehearsal hall, technical support rooms, performer support rooms and lounges, box office space, administration office space, VIP lounge areas, and storage space.

Clancy & Theys received the *City of Virginia Beach Minority Business Council, Service Award for "Diversity Champion" in recognition of Exceptional Service Delivery for the Performing Arts Center in Virginia Beach, Virginia.*

This project was the recipient of the Hampton Roads Association for Commercial Real Estate's Excellence in Development Design Awards - Jurors' Award, Best Recreation/Entertainment Hostility Project, and Best Interior Project and the National Design-Build Excellence Award for the Public Sector $25-$50 million range.



PROJECT INFORMATION

Location: Virginia Beach Virginia
Size: 86,000 sq ft

OWNER INFORMATION

City of Virginia Beach
2405 Courthouse Center
Building 2, Room 345
Virginia Beach, VA 23462
Emily Labows | 757.385.0226

ARCHITECT INFORMATION

H+A Architects & Engineers
222 Central Park Ave, Suite 1200
Virginia Beach, VA
Burrell Saunders | 757.506.0440
(Now with Saunders + Crouse Architects)

FEATURED PROJECT FOR A CITY: PORTSMOUTH JUDICIAL CENTER

The City of Portsmouth Courts facility included the complete renovation of an existing one- and two-story office warehouse building (approximately 103,700 sq ft), along with a new three-story addition (approximately 103,000 sq ft). The Judicial Center houses the Circuit Court, General District Court, Juvenile and Domestic Relations Court, detention facilities, and related administrative offices.

The facility also provided 11 new courtrooms, including five Circuit Courts, three General Districts, and three Juvenile & Domestic Relations. There are three separate points of ingress/egress and hallways for the general public, judges, and prisoners. Offices for the Commonwealth's Attorney, Juvenile Court Services, and the Portsmouth Sheriff are also located in the facility. Special features include approximately 8,000 sq ft of green roof and high-density file storage.

This project reinforced the importance of early engagement and communication with the Design Team to clarify questions on specialty systems scopes and coordinate overlapping trade schedules. Early engagement and frequent communication with the end-user was also crucial to the success of this project, as desired modifications were integrated and made in line with the established schedule.

This project was awarded HRACRE Award of Excellence for Best Institutional/Public Building.

PROJECT INFORMATION

Location:	Portsmouth, Virginia
Size:	207,000 sq ft

OWNER INFORMATION

Tri City Developers
200 High Street, Suite 409
Portsmouth, Virginia
Jim Smith| 757.483.9800

ARCHITECT INFORMATION

HBA Architecture & Interior Design
One Columbus Center, Suite 1000
Virginia Beach, Virginia
Joseph A. Miller, AIA | 757.490.9048

Additional Recreation/Aquatic/Sports Facility Experience

30+ Recreation Projects

Triangle Aquatic Center, Cary, NC
Emily K Family Life Center, Durham, NC
WakeMed Soccer Park, Cary, NC
Carmichael Arena Addition + Renovations, UNC-CH, Chapel Hill, NC
Boshamer Stadium, UNC-CH, Chapel Hill, NC
Kenan Vertical Expansion, Locker Rooms, UNC-CH, Chapel Hill, NC
Kenan Stadium North Box, UNC-CH, Chapel Hill, NC
Kenan Stadium Football Stadium, UNC-CH, Chapel Hill, NC
Carolina Country Club (Multiple projects), Raleigh, NC
Wayne Densch Sports Complex, UCF, Orlando, FL
Providence Day School Athletic Center, Charlotte, NC
+ more

15 YMCA Projects

Taylor Family YMCA Renovation, Cary, NC
Poyner YMCA, Downtown Raleigh, NC
Chapel Hill-Carboro YMCA Locker Room Renovation, Chapel Hill, NC
Durham YMCA Locker Room Renovation, Durham, NC
Alexander Family YMCA, Raleigh, NC (Original Construction)
Alexander Family YMCA Wellness Renovation, Raleigh, NC
Alexander YMCA 2nd Floor Expansion, Raleigh, NC
Alexander Family YMCA Women's Locker Room Renovation
Alexander Family YMCA Natatorium Repainting
A. E. Finley YMCA, Raleigh, NC (Original Construction)
A. E. Finley YMCA Renovations, Raleigh, NC
Chapel Hill-Carrboro YMCA Renovations, Chapel Hill, NC
Garner Road YMCA, Raleigh, NC (Original Construction)
Colonel Logan E. Weston YMCA, Fort Mill, SC
Camp Kanata Cabins, Wake Forest, NC

40+ Hospitality/Multi Family Projects with Pools

Overture Virginia Beach, Virginia Beach, VA
Watermark Apartments, Norfolk, VA
The Landings at Bolling Square III, Norfolk, VA
Monticello Station Apartments, Norfolk, VA
Beach Place Apartments, Virginia Beach, VA
SpringHill Suites, Hampton, VA
SpringHill Suites Oceanfront, Virginia Beach, VA
Residence Inn Oceanfront, Virginia Beach, VA
Fairfield Inn Oceanfront, Virginia Beach, VA
Holiday Inn Express, Williamsburg, VA
WindsorMeade of Williamsburg, Williamsburg, VA
Sheraton Oceanfront, Virginia Beach, VA
Marriott Conversion, Chesapeake, VA
Hilton Garden Inn, Hampton, VA
Courtyard Marriott, Newport News, VA
Residence Inn, Newport News, VA
SpringHill Suites, Chesapeake, VA
+ more

Pictured left to right, top to bottom: Alexander Family YMCA, Raleigh, NC | Holiday Inn 39th Street, Virginia Beach, VA | Triangle Aquatics Center, Cary, NC | Triangle Aquatics Center, Cary, NC | University of Central Florida Wayne Densch Sports Center Weight Room, Orlando, FL

William J. Goggins

Vice President & CEO, Virginia Division | Principal-in-Charge

As project executive, Bill provides support to the entire project team to ensure they have what they need to succeed. He has extensive commercial construction experience including key positions of responsibility which gives him a broad base of knowledge in the construction industry. His experience has included project and contract management, estimating, constructability review and value engineering, scheduling, fast-track, design-build and team-build construction projects.

PROJECT EXPERIENCE

Dollar Tree Headquarters Office and Parking Garage – Chesapeake, VA *(In progress)*
New Art Museum at Old Dominion University – Norfolk, VA *(In progress)*
Virginia Urology at Stony Point VI Office and Parking Deck – Richmond, VA *(In progress)*
Anthem Support Center II – 4th Floor TI – Norfolk, VA
880 Building: Movement Mortgage and Optima Health – Norfolk, VA
Brighton Apartment's Renovation – Newport News, VA
Oyster Point Apartment's Renovation – Newport News, VA
Cypress Terrace Apartment's Renovation – Newport News, VA
Printpack – Newport News, VA
The College of William & Mary, Swem Library Renovation – Williamsburg, VA
The College of William & Mary, One Tribe Place Renovation – Williamsburg, VA
The College of William & Mary, Chandler Hall Renovation – Williamsburg, VA
Virginia Arts Festival Headquarters – Norfolk, VA
Sandler Center for the Performing Arts – Virginia Beach, VA
The Landings at Bolling Square - Norfolk, VA
Dollar Tree Distribution Centers – California, Connecticut, Oklahoma & South Carolina
Pepsi Bottling Plant – Wytheville, VA
Cost Plus Distribution Center – Isle of Wight, VA
Highwoods Distribution Center, Building A – Richmond, VA
Regent University College of Communication & the Arts – Virginia Beach, VA
Regent University Chapel & Divinity School – Virginia Beach, VA
VCU School of Pharmacy – Richmond, VA
Belmont at Freemason- Norfolk, VA
Monticello Station Apartments- Norfolk, VA
ODU VMASC & MAST Center – Suffolk & Portsmouth, VA
MacArthur Memorial Museum - Norfolk, VA
Wells Fargo Center & Integrated Parking Garage – Norfolk, VA
Wells Fargo Center Branch Bank & Various TI – Norfolk, VA
Amerigroup Corporate Campus– Virginia Beach, VA
Portsmouth Judicial Center – Portsmouth, VA
Dog Street Pub- Williamsburg, VA
Chesapeake Community Services Board – Chesapeake, VA
Regent University Student Union – Virginia Beach, VA
Portsmouth Social Services Facility – Portsmouth, VA
Oyster Point Fountain Plaza II – Newport News, VA
North Shore Commons – Glen Allen, VA
Stony Point I & III – Richmond, VA
Highwoods Plaza – Glen Allen, VA
Markel American Office Building – Glen Allen, VA
Highwoods Five Office Building – Glen Allen, VA

Education

Texas A&M University
M.B.A. Real Estate, Finance, & Construction Management, 1985

Wentworth Institute of Technology
B.S. Civil Engineering Technology, 1983

Years of Experience

33 Years in the Construction Industry
23 Years with Clancy & Theys

Certificates & Registrations

FMI – Executive Program for Senior Managers, 2006

Other Activities

DBIA, Member, 2010-Present

Colonial Virginia Boy Scout Council, Executive Board, 2009-Present

ODU Civil Engineering Technology Advisory Committee,2008-Present

AGC Legislative Committee

Newport News Public Schools Capital Improvements Committee

CLANCY &THEYS CONSTRUCTION COMPANY

C. Dean Conklin

Vice President of Construction | Project Executive

Dean is responsible for all construction operations in the company's Virginia Division. Project Managers and Superintendents report directly to him. Dean provides support to the entire project team to ensure they have what they need to succeed. He has extensive, progressively responsible commercial construction management experience, including positions as an Estimator and Project Manager, for many of the company's most challenging construction projects. His involvement starts at pre-construction and continues through commissioning and project close out.

Education

North Carolina State University
B.S. Civil Engineering, 1979

EIT, State of North Carolina, 1979

Years of Experience

37 Years in the Construction Industry
25 Years with Clancy & Theys

Certificates & Registrations

Primavera Expedition Project Control

Other Activities

AGC of Virginia Executive Board Member, 2009-2012

President, Virginia Peninsula AGC, 2008 & 2009

AQUATIC/RECREATION EXPERIENCE

AdvoCare Sports Performance Center – White Sulphur Springs, WV
Richmond Marriott West – Glen Allen, VA
Beach Place Apartments – Virginia Beach, VA
SpringHill Suites – Hampton, VA
SpringHill Suites Oceanfront – Virginia Beach, VA
Sheraton & Westin Complex BWI – Linthicum, MD
Residence Inn Oceanfront – Virginia Beach, VA
Fairfield Inn Oceanfront – Virginia Beach, VA
Courtyard by Marriott – Carolina Beach, NC
Holiday Inn Express – Williamsburg, VA
Marriott Courtyard Hotel – Virginia Beach, VA
WindsorMeade of Williamsburg – Williamsburg, VA
Sheraton Oceanfront – Virginia Beach, VA
Marriott Conversion – Chesapeake, VA
Hilton Garden Inn – Hampton, VA
Hyatt Place – Richmond, VA
Salem Run Apartments – Fredericksburg, VA
Courtyard Marriott – Newport News, VA
Residence Inn – Newport News, VA
SpringHill Suites – Norfolk, VA
SpringHill Suites – Chesapeake, VA
Staybridge & Suites Hotel – Chesapeake, VA
Hampton Inn – Hazelton, PA
Hampton Inn – Scranton, PA
Harbor's Edge Physical Therapy & Fitness Renovation - Norfolk, VA

ADDITIONAL EXPERIENCE

Residence Inn - Raleigh, NC
The Crossings at Hanover – Richmond, VA
William Byrd Apartments – Richmond, VA
Canon Advanced Cartridge Manufacturing Facility – Newport News, VA
Regent University Chapel & Divinity School – Virginia Beach, VA
Belmont at Freemason Apartments – Norfolk, VA
Casino Club at the Greenbrier – White Sulphur Springs, WV
Aloft Hotel – Glen Allen, VA
Aloft Hotel – Chesapeake, VA
First Colonial Inn - Virginia Beach, VA
Coastal Hospitality Associates Office Building - Virginia Beach, VA
Lydia H. Roper Home Renovations – Norfolk, VA
Norfolk International Airport Expansion – Norfolk, VA
Wells Fargo Center – Norfolk, VA
Fountain Plaza III – Newport News, VA

CLANCY &THEYS CONSTRUCTION COMPANY

Patrick Calhoun, LEED BD+C

Pre-Construction Estimator

Patrick is part of our LEED accredited estimating staff and is responsible for bidding, estimating and pre-construction services for the Virginia Division. The majority of our construction projects are performed as Construction Manager-at-Risk, and require intensive pre-construction efforts, such as planning, scheduling, estimating, and value engineering. He provides preliminary and final cost estimating, value analysis, bid packages, and pre-construction services.

PROJECT EXPERIENCE

Sentara New Town Urgent Care Renovation – Williamsburg, VA
Sentara Chimney Hill Urgent Care Renovation – Virginia Beach, VA
Williamsburg Lodge – Williamsburg, VA
Optima Health TI – Norfolk, VA
Williamsburg Inn – Williamsburg, VA

Past experience with MB Contractors - Roanoke, VA

Somic America Expansion – Wytheville, VA
Holiday Inn Express – Blacksburg, VA
Fairfield Inn – Christiansburg, VA
Holiday Inn Express – Blacksburg, VA
GLTC Operations & Maintenance Facility – Lynchburg, VA
VT McBryde 100 – Blacksburg, VA
Department of Social Services Renovation – Salem, VA
Radford University Intramural Fields Expansion – Radford, VA
Commonwealth Assisted Living Renovation – Front Royal, VA
DBS Office Fit-Out Riverside 1 – Roanoke City, VA
Roanoke River Greenway Phase 1 – Roanoke County, VA
Crosspointe Church – Wirtz, VA
Carilion Clinic Cosmetic Center Tenant Renovation – Roanoke City, VA
Carilion MRI Renovation – Roanoke City, VA
Augusta County Schools – 2 Elementary Schools – Augusta County, VA
Fox 21/27 Studio Facilities – Roanoke County, VA
Carilion Dermatology Alterations – Roanoke City, VA
First Baptist Church Multipurpose – Roanoke City, VA
Magistrate Office Renovations – Salem, VA
Carilion Riverside 1 – RS106 – Roanoke City, VA
VTCRI - TMBH Project – Roanoke City, VA
Roanoke County DSS HVAC, Roofing & Parking Lot Upgrades – Salem, VA
Wheatland Hills – Radford, VA
Stonewall Jackson Hospital Hangar – Lexington, VA
Henrico High School Addition and Renovations – Henrico, VA
Market Square Improvements – Roanoke City, VA
St. Marks UMC Multi-Purpose Building - Daleville, VA
First Baptist Church – Roanoke In-fill Addition – Roanoke City, VA
Renovations to The Southerlands – Front Royal, VA

Education

Virginia Western Community College
Business Administration, A.S., 2015

Old Dominion University,
Strome College of Business
Business Management (In Progress)

Years of Experience

27 Years in the Construction Industry
2 Years with Clancy & Theys

Certificates & Registrations

LEED Accredited Professional

Service

United States Marine Corps
1986-1990

CLANCY &THEYS CONSTRUCTION COMPANY

Harry Stallings

In-House Aquatics Expert

Harry is Clancy & Theys' longest tenured senior project manager, having 39 years with the company. He is one of our most efficient employees, as attested to by his work for IBM Corporation, for which he provided both estimating and project management services for hundreds of projects, representing nearly $100 million. His portfolio includes a wide variety of project types: sports facilities, multi-family housing, laboratories, manufacturing facilities, offices, pharmaceutical facilities, renovations, and historic building renovations. Harry was the project manager on the Triangle Aquatic Center project in Cary, North Carolina. He is based at our headquarters in Raleigh, North Carolina and will serve on our pre-construction team.

Education

University of North Carolina, Wilmington, B.A., English

Years of Experience

39 Years in the Construction Industry
39 Years with Clancy & Theys

Training & Continuing Education

CPR/AED Certified

AQUATIC/RECREATION EXPERIENCE

Triangle Aquatic Center – Cary, NC
Stallings-Evans Sports Medicine Facility, UNC-CH – Chapel Hill, NC
Carmichael Auditorium, UNC-CH – Chapel Hill, NC
Williamson Athletic Center, UNC-CH – Chapel Hill, NC
Woollen Gymnasium Locker Level Renovations, UNC-CH – Chapel Hill, NC
Woollen Gymnasium Renovation, UNC-CH – Chapel Hill, NC
Sports Medicine Facility, UNC-CH – Chapel Hill, NC
The Dillon Apartments – Raleigh, NC
The Presley – Charlotte, NC
Hermann Athletic Center at William Peace University – Raleigh, NC

ADDITIONAL EXPERIENCE

Chatham County Justice Center – Pittsboro, NC
Fountains Uptown – Charlotte, NC
Patterson Place Medical Office Building – Durham, NC
Durham Rescue Mission – Durham, NC
Multiple Projects for Amtrak – Raleigh, NC
Multiple Projects for IBM Corporation – Research Triangle Park, NC
Multiple Fit-ups for Nortel Networks – Research Triangle Park, NC
Xerium Technologies – Youngsville, NC
Cheesecake Factory Bakery Facility – Battleboro, NC
Goodwin House Renovation – Raleigh, NC

CLANCY &THEYS CONSTRUCTION COMPANY

Todd Rasmussen, LEED AP, BD+C

VD+C Coordinator

As VD+C Coordinator, Todd is responsible for managing models to coordinate between trades and designers to plan and optimize construction. As Assistant Project Manager, he is responsible for overall project management, including coordination with the Owner, Architects, and Superintendents, billings, writing subcontracts, scheduling and cost analysis. Other responsibilities include scheduling weekly team meetings, providing budget control, continuous constructability design reviews and real-time cost benefit assessments and feedback. His involvement in both roles starts at pre-construction and continues through the project's duration.

PROJECT EXPERIENCE

Dollar Tree Headquarters Office and Parking Garage – Chesapeake, VA *(In progress)*
Virginia Urology at Stony Point VI Office and Parking Deck – Richmond, VA *(In progress)*
Overture Virginia Beach Apartments – Virginia Beach, VA
Kellam High School Replacement – Virginia Beach, VA *(with HBA Architects)*
CTDOT Maintenance of Way Building – New Haven, CT *(with Parsons Brinckerhoff)*

Education

Old Dominion University
B.S. Civil Engineering Technology
(In progress, expected completion December 2018)

Tidewater Community College
A.S Civil Engineering Technology, 2015

ITT Technical Institute
A.S Computer Aided Drafting Technology, 1995

Years of Experience

23 Years in the Construction Industry
2 Years with Clancy & Theys

Certificates & Registrations

LEED AP, BD+C Accredited Professional

ADDA, Certified Drafter

ASCE, Student Member

CLANCY &THEYS CONSTRUCTION COMPANY

Don Sproul

Senior Project Manager

Don is responsible for overall project management, including coordination with the Owner, Architects, and Superintendents, billings, writing subcontracts, scheduling and cost analysis. Other responsibilities include scheduling weekly team meetings, providing budget control, continuous constructability design reviews, and real-time cost benefit assessments and feedback. His involvement starts at pre-construction and continues through the project's duration.

AQUATIC/RECREATION EXPERIENCE

AdvoCare Sports Performance Center – White Sulphur Springs, WV
Richmond Marriott West – Glen Allen, VA
Holiday Inn / Marriott Hotel Conversion – Chesapeake, VA
Staybridge Suites – Chesapeake, VA

ADDITIONAL EXPERIENCE

Hyatt Place Pembroke – Virginia Beach, VA *(In progress)*
Royster Building: Marriott Autograph Hotel Conversion – Norfolk, VA *(In progress)*
Perry Art Glass Gallery – Norfolk, VA *(In progress)*
Poseidon Equipment – Newport News, VA
General Electric Tenant Upfit – Innsbrook, VA
Residence Inn, Marriott – Raleigh, NC
Canon Phoenix Installation – Newport News, VA
Canon Cafeteria – Newport News, VA
Canon Advanced Cartridge Manufacturing Facility – Newport News, VA
Canon ACM Phase II Expansion – Newport News, VA
Canon Toner Plant Expansion – Newport News, VA
Industrial Resource Technologies, HRS Equipment Project – Gloucester, VA
Boehringer Ingelheim Chemicals, Synthesis 3 Upgrade – Petersburg, VA
Refuse Derived Fuel Plant – Portsmouth VA
CVI, various industrial, research & development projects – Newport News, VA
TranSystems – Norfolk, VA
Greenbrier Medical Institute – White Sulphur Springs, WV
Hampton Careplex Medical Office Building – Hampton, VA
Johnston Willis Oncology & MRI Center – Richmond, VA
Chippenham Medical Center Surgery Center – Richmond, VA
Beaufort Memorial Cancer Center – Beaufort, SC
Richmond Community Hospital Endoscopy Suite – Richmond, VA
Bon Secours Memorial Medical Center OR#4 – Portsmouth, VA
The Wainwright Downtown – Norfolk, VA
Casino Club at The Greenbrier – White Sulphur Springs, WV
Harbor's Edge at Fort Norfolk – Norfolk, VA
Lexington Wastewater Treatment Plant – Lexington, VA
Bowdoin College Dormitory & Kitchen – Brunswick, ME

Education

Tidewater Community College,
Classes in Business Management,
Public Speaking and Business Ethics

Years of Experience

34 Years in the Construction Industry
12 Years with Clancy & Theys

Certificates & Registrations

Primavera Expedition Project Control,
Consultants in Data Processing Inc.

CQC Management for Contractors,
US Army Corps of Engineers

BCOM CPSM Training, 2010

First Aid & CPR Certified

OSHA 10 & 30 Hour

Other Activities

AGCVA, State Board of Directors

Peninsula AGC, Previous President &
Vice President

Peninsula YMCA, Board of Directors

Windsor Ruritans, Vice President

CLANCY &THEYS
CONSTRUCTION COMPANY

Troy Manlove

Project Manager

Troy is responsible for overall project management, including coordination with the Owner, Architects, Subcontractors, and Superintendents, billings, writing subcontracts, scheduling and cost analysis. Other responsibilities include scheduling weekly team meetings, providing budget control, continuous constructability design reviews and real-time cost benefit assessments and feedback. His involvement starts at pre-construction and continues through the project's duration.

AQUATIC/RECREATION EXPERIENCE

Richmond Marriott West – Glen Allen, VA
Sheraton Oceanfront Hotel – Virginia Beach, VA

ADDITIONAL EXPERIENCE

Royster Building: Marriott Autograph Hotel Conversion – Norfolk, VA *(In progress)*
Perry Art Glass Gallery – Norfolk, VA *(In progress)*
Printpack Expansion – Newport News, VA
The Wainwright Downtown – Norfolk, VA
Monticello Station Apartments – Norfolk, VA
Wells Fargo Office Tower (various tenant buildouts) – Norfolk, VA
Wells Fargo Center Central Parking Garage – Norfolk, VA
Sandler Center for the Performing Arts – Virginia Beach, VA
The Virginia Modeling & Simulation Center – Suffolk & Portsmouth, VA
Chesapeake Community Services Board – Chesapeake, VA
Pepsi Bottling Plant – Wytheville, VA
Cost Plus Expansion – Isle of Wight, VA
Cost Plus Distribution Center – Isle of Wight, VA
Highwoods Plaza – Glen Allen, VA
Highwoods Commons – Glen Allen, VA
Highwoods Distribution Center – Richmond, VA
East Shore II – Glen Allen, VA
Federal Express Tenant Upfit – Sandston, VA
Shockoe Plaza Office Building – Richmond, VA
MCI Service Center – Newport News, VA
Avis Telecommunications and Processing Center – Virginia Beach, VA
Regent University, College of Law & Government – Virginia Beach, VA
University Center, College of William and Mary – Williamsburg, VA
Tercentenary Hall, College of William and Mary – Williamsburg, VA
BEQ Portsmouth Naval Hospital – Portsmouth, VA
BEQ Naval Security Group Activity – Chesapeake, VA

Education

Virginia Tech
B.S. Building Construction, 1988

Delaware Technical & Community College
A.A.S. Architectural Drafting, 1983

Years of Experience

30 Years in the Construction Industry
24 Years with Clancy & Theys

Training & Continuing Education

CQC Management for Contractors, US Army Corps of Engineers

Design-Build Professional, 2011 - Design Build Institute of America

DBIA Associate

CLANCY &THEYS CONSTRUCTION COMPANY

Gary Nuttall

Superintendent

Gary is responsible for jobsite safety, project performance, and quality of production. His primary role is to directly supervise and coordinate activities of the field staff and subcontractors. Other duties include: reviewing project specific documents such as drawings, reports, contractual and regulatory requirements, quality control, attending meetings, establishing task budgets, schedules, and resource requirements, controlling task costs, and documenting site activities for daily reports.

AQUATIC/RECREATION EXPERIENCE

Watermark Apartments – Norfolk, VA
The Landings at Bolling Square III – Norfolk, VA
The Crossings at Red Mill Apartments Renovation – Virginia Beach, VA
Monticello Station Apartments – Norfolk, VA
39th Street Holiday Inn – Virginia Beach, VA
Residence Inn – Newport News, VA
The Crossings at Red Mill – Virginia Beach, VA
Courtyard by Marriott – Virginia Beach, Virginia
Courtyard by Marriott – Carolina Beach, NC
Dulles Town Center, Phase I – Herndon, VA

ADDITIONAL EXPERIENCE

Front Street Flats Apartments – Norfolk, VA *(In progress)*
Rolling Meadows Apartments, Revitalization/Renovation – Williamsburg, VA
Regent University Chapel & Divinity School – Virginia Beach, VA
21st Street Holiday Inn Oceanside – Virginia Beach, VA
Wells Fargo Center Retail – Norfolk, VA
Courtyard by Marriott – Newport News, VA
Regent University Graduate Student Housing – Virginia Beach, VA
388 Boush Street Apartments – Norfolk, VA
Regent University College of Communication & the Arts – Virginia Beach, VA
Regent University Student Union – Virginia Beach, VA
TowneBank Harbour View Operation Facility – Suffolk, VA
Capital One (Highwoods III) – Glen Allen, VA
East Shore I & III – Glen Allen, VA
Dulles Town Center, Phase II – Herndon, VA
Monticello at Powhatan, Phase II – Williamsburg, VA
Monticello at Powhatan, Phase I – Williamsburg, VA
Dollar Tree Distribution Center – Briar Creek, PA
Dollar Tree Distribution Center – Stockton, CA
Dollar Tree Distribution Center, Phase II – Stockton, CA

Years of Experience

45 Years in the Construction Industry
21 Years with Clancy & Theys

Training & Continuing Education

CQC Management for Contractors, US Army Corps of Engineers, 2010

OSHA 10 and 30

First Aid and CPR Certified

CLANCY & THEYS CONSTRUCTION COMPANY

Howard Condrey

Alternate Superintendent

Howard is responsible for jobsite safety, project performance, and quality of production. His primary role is to directly supervise and coordinate activities of the field staff and subcontractors. Other duties include: reviewing project specific documents such as drawings, reports, contractual and regulatory requirements, quality control, attending meetings, establishing task budgets, schedules, and resource requirements, controlling task costs, and documenting site activities for daily reports.

Years of Experience

43 Years in the Construction Industry
27 Years with Clancy & Theys

Training & Continuing Education

OSHA 10 & 30

First Aid and CPR Certified

CQC Management for Contractors,
US Army Corps of Engineers

AQUATIC/RECREATION EXPERIENCE

Richmond Marriott West – Richmond, VA
Beach Place Apartments – Virginia Beach, VA
Sheraton Oceanfront Hotel – Virginia Beach, VA
Residence Inn – Norfolk, VA
SpringHill Suites Oceanfront – Virginia Beach, VA
Residence Inn Oceanfront – Virginia Beach, VA
Fairfield Inn Oceanfront – Virginia Beach, Virginia
Holiday Inn Hotel & Suites – Newport News, VA
Courtyard by Marriott – Roanoke, VA
Chickahominy Bluff Apartments – Hanover County, VA
Beaverdam Creek Apartments – Hanover County, VA

ADDITIONAL EXPERIENCE

Brighton Apartments Renovation – Newport News, VA
Casino Club at The Greenbrier – White Sulphur Springs, WV
Holiday Inn Oceanfront, Kitchen Remodel – Virginia Beach, VA
River Bluffs Condominiums – Williamsburg, VA
William Byrd Elderly Housing – Richmond, VA
Guardian Place – Richmond, VA
United States Coast Guard TI – Norfolk, VA
Inland Container Plant – Petersburg, VA
Nippon Express Office/Warehouse – Newport News, VA
Markel American – Glen Allen, VA
Fleet Hospital Storage Facility, US Navy, Cheatham Annex – Williamsburg, VA
Inland Container – Rome, GA
South Tech, Phase V Expansion – Tappahannock, VA
Hill Phoenix – Chesterfield County, VA
School of Law & Government, Regent University – Virginia Beach, VA
FBI Headquarters – Norfolk, VA
Creeds Police Training Facility – Chesapeake, VA

CLANCY &THEYS CONSTRUCTION COMPANY

Dave Howard

Alternate Superintendent

Dave is responsible for jobsite safety, project performance, and quality of production. His primary role is to directly supervise and coordinate activities of the field staff and subcontractors. Other duties include: reviewing project specific documents such as drawings, reports, contractual and regulatory requirements, quality control, attending meetings, establishing task budgets, schedules, and resource requirements, controlling task costs, and documenting site activities for daily reports.

AQUATIC/RECREATION EXPERIENCE

Hilton Garden Inn – Hampton, VA
SpringHill Suites – Hampton, VA
Residence Inn – Chesapeake, VA
Residence Inn – Norfolk, VA
Founder's Inn Spa and Fitness Center – Virginia Beach, VA

ADDITIONAL EXPERIENCE

Sentara Chimney Hill Urgent Care Renovation – Virginia Beach, VA
Optima Health TI – Norfolk, VA
Movement Mortgage TI – Norfolk, VA
880 Building (former JC Penney) – Norfolk, VA
Dollar Tree, Inc. Distribution Center (included office space) – Cowpens, SC
Loan Care – Virginia Beach, VA
WJBD VAMC Boiler Plant – Columbia, SC
VAMC Energy Center – Waco, TX
Monticello Station Apartments - Norfolk, VA
Wells Fargo Retail Shops – Norfolk, VA
North Carolina History Education Center - New Bern, NC
Langley Federal Credit Union Headquarters – Newport News, VA
John Tyler Elementary School – Portsmouth, VA
Mt. Lebanon Church – Chesapeake, VA
Maryview Chapel – Portsmouth, VA
Pleasant Grove Baptist Church – Virginia Beach, VA
Grayland Baptist Church – Richmond, VA
Calvary Missionary Baptist Church – Portsmouth, VA

Years of Experience

40 Years in the Construction Industry
15 Years with Clancy & Theys

Training & Continuing Education

CQC Management for Contractors, US Army Corps of Engineers

First Aid and CPR certified

OSHA 10, 30

Building Information Modeling (BIM)

CLANCY &THEYS CONSTRUCTION COMPANY

Steve Fuller

EH&S Director

Steve oversees and facilitates Clancy & Theys' safety program across all five divisions. Additionally, he is responsible for creating, formulating and administering approved changes to the safety program. He maintains an accident report system, personally investigating serious accidents and taking corrective action to eliminate accident causes, and conducts periodic safety inspections of all job sites and directs corrective actions for any unsafe conditions or work practices. Steve ensures full compliance with applicable Federal, State, and Local regulations and develops programs that promote Clancy & Theys' commitment to safety.

TRAINING & CONTINUING EDUCATION

Issued certification cards for: OSHA, Haz Mat, and Red Cross

Trained extensively in respiratory protection, hazardous materials, hearing protection, fall protection, confined space, fire protection, trenching and excavating, defensive driving, and OSHA law and regulations

Certified supervisor and safety representative

Certified in Level 1 Asbestos abatement and removal

Licensed Private Investigator through the Virginia Department Of Criminal Justice Services

Approved American Red Cross CPR, First Aid, and AED instructor

Approved MSHA Instructor

Approved Midwest Energy Association OQ Evaluator

Approved Veriforce Evaluator

Department of Mines BCME Instructor

Certified by NSC in POSH, Fundamentals of Industrial Hygiene, and Ergonomics

Completed NSC Economics and Industrial Hygiene courses

Completed NSC POSH

Completed MSHA part 48 instructor course at the National Mine Academy

Education

Industrial Health and Safety Career Studies Certificate
Southwest Virginia Community College, 2003

Additional Coursework Taken at:
Columbia Southern University, 2008-2010

Trinidad State University, 2007

OSHA 501 trainer course
West Virginia University, 2004

Southwest Virginia Community College, 1999

Years of Experience

30 Years in the Construction Industry
Recently Joined Clancy & Theys

CLANCY &THEYS
CONSTRUCTION COMPANY

GRACIA & VIGIL
The GraceHill Group Corp.
COMMERCIAL SWIMMING POOLS

Kempsville Recreation Center

Virginia Beach, VA

Owner:
City of Virginia Beach
Princess Anne Executive Park,
2388 Court Plaza Drive, 1st Floor
Virginia Beach, Virginia 23456
757.673.3111

Pool Builder:
Gracia & Vigil
4980 Euclid Road,
Virginia Beach, VA
757.493.2905

General Contractor:
Blueridge General, Inc.
3422 Strathmore Avenue
Norfolk, VA 23504
757-627-9914

Architect:
HBA ARCHITECTURE & INTERIOR DESIGN
One Columbus Center, Suite 1000
Virginia Beach, Virginia 23462
Phone: (757) 490-9048

Pool Consultant:
Counsilman-Hunsaker
10733 Sunset Office Drive
St. Louis, MO 63127
314.894.1245
www.counsilmanhunsaker.com

Project Team:
Mike Gracia, Field Project Manager
David Vigil, Exec. Project Manager

Contract Amount: $2.1 Million

Kempsville Recreation Center features an indoor competition Pool and Indoor Leisure Pool. The Competition Pool is 6-lane, 12'-6" deep with Racing Lanes, Starting Blocks, and a pair of 1M Diving Boards. The Leisure Pool is over 3,000 Square Feet with multiple interactive Water Play Features, Lazy River, Beach Entry and slide.

4980 EUCLID ROAD • VIRGINIA BEACH, VIRGINIA 23462 • 757-493-2905

GRACIA & VIGIL
The GraceHill Group Corp.
COMMERCIAL SWIMMING POOLS

Magnolia Green Aquatic Center

Moseley, VA

Owner:
6801 Woolridge Road – Moseley LP
6700 Otterdale Road
Moseley, VA 23120
804.639.9954

Pool Builder:
Gracia & Vigil
4980 Euclid Road
Virginia Beach, VA
757.493.2905

General Contractor:
iStar
6700 Otterdale Road
Moseley, VA 23120
804.639.9954
www.istar.com

Architect:
Ramaker Associates, INC
3111 Northside Avenue
Richmond, VA 23228
804.262.2220
www.clubsourcedesign.com

Pool Architect:
Ramaker & Associates
855 Community Drive
Sauk City, WI 53583
608.643.4100
www.ramaker.com

Project Team:
Mike Gracia, Field Project Manager
David Vigil, Exec. Project Manager

Contract Amount: $1.47 Million

The Magnolia Green Aquatic Center includes 4 swimming pools over a 6 acre site. There is an 8-lane Competition Pool, an Activity Pool, a Lounging Pool, and a Wading Pool.

The Activity Pool has 2 water slides, Volleyball and Basketball games. The uniquely shaped Lounging Pool has several sun shelves/play ledges.

The Wading Pool has an interactive play structure loaded with water features and a water slide.

GRACIA & VIGIL
The GraceHill Group Corp.
COMMERCIAL SWIMMING POOLS

Williams Farm Community Recreation Center

Virginia Beach, VA

Owner:
City of Virginia Beach
5252 Learning Circle
Virginia Beach, VA 23462
757.385.3068

Pool Builder:
Gracia & Vigil
4980 Euclid Road
Virginia Beach, VA
757.493.2905

General Contractor:
W. M. Jordan Company, Inc.
11010 Jefferson Avenue
Newport News, VA 23188
757.596.6341
http://www.wmjordan.com

Architect:
Waller, Todd & Sadler
1909 Cypress Avenue
Virginia Beach, VA 23451
757.417.0140
www.WTSArch.com

Pool Consultant:
Counsilman-Hunsaker
10733 Sunset Office Drive
St. Louis, MO 63127
314.894.1245
www.counsilmanhunsaker.com

Project Team:
Mike Gracia, Field Project Manager
David Vigil, Exec. Project Manager

Contract Amount: $1.95 Million

The Williamsburg Farm Community Recreation Center features a new Swimming Pool and Splash Pad.

The main Pool is approximately 171,000 gallons and 7,431 square feet. The Pool includes a Slide, Racing Lanes, Aquatic River and Water Play Elements.

The Splash Pad is approximately 4,000 gallons and 2,920 square feet. The Splash Pad has over 15 water features and is designed to entertain 100 kids at a time.

GRACIA & VIGIL
The GraceHill Group Corp.
COMMERCIAL SWIMMING POOLS

The Country Club of Virginia

Richmond, VA

Owner:
The Country Club of Virginia
6031 St. Andrews Lane
Richmond, VA 23226
804.288.2891
www.theccv.org

Pool Builder:
Gracia & Vigil
4980 Euclid Road
Virginia Beach, VA
757.493.2905

General Contractor:
KBS, Inc.
8050 Kimway Drive
Richmond, VA 23228
804.262.8657
www.kbsgc.com

Architect:
Worley & Associates
908 North Thompson Street
Richmond, VA 23230
804.353.2638
www.worleyassociates.com

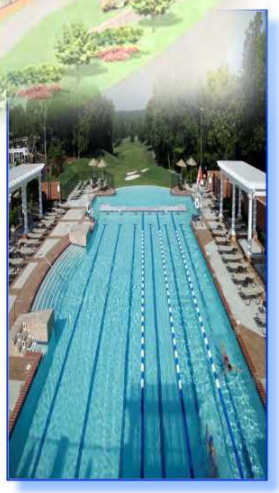
Pool Architect:
Siska-Aurand Landscape Architect
523 West 34th Street
Norfolk, VA 23517
757.627.1407
www.siskaaurand.com

Project Team:
Mike Gracia, Field Project Manager
David Vigil, Exec. Project Manager

Contract Amount: $1.9 Million

The Country Club of Virginia is a private club originally built in 1908 by Herbert Barker. In 2008 the club undertook a multi-million dollar expansion that included the addition of five swimming pools.

Gracia & Vigil constructed a 12 foot deep Dive Pool, an 8 lane Competition Pool, an Adult Pool showcasing a 15 foot Knife Edge feature, a Recreation Pool featuring covered spa area, zero-depth beach entry with aquatic play toys, and a kiddie pool with wall fountains. These pools encompass 17,984 square feet and 519,677 gallons of water.



GRACIA & VIGIL
The GraceHill Group Corp.
COMMERCIAL SWIMMING POOLS

Water Country USA "Hubba Hubba Highway"

Williamsburg, VA

Owner:
Busch Entertainment Corp.
One Busch Gardens Boulevard
Williamsburg, VA 23185
757.253.3426
www.a-bsupplierdiversity.com

Pool Builder:
Gracia & Vigil
4980 Euclid Road
Virginia Beach, VA
757.493.2905

General Contractor:
Henderson, Inc.
5806 Mooretown Road
Williamsburg, VA 23188
757.565.1090
www.hendersoninc.com

Architect:
Landmark Design Group, Inc.
4029 Iron Bound Road
Suite 100
Williamsburg, VA 23188
757.253.2975
www.landmark.com

Project Team:
Mike Gracia, Field Project Manager
David Vigil, Exec. Project Manager

Contract Amount: $1.4 Million

This 32,000 Square Foot 1,500 foot long action river at Water Country USA is the largest water attraction in the park. Covering 3.5 acres, Hubba Hubba Highway has winding turns, spraying curvy canes, geysers, drenching coconuts, water cannons, and many more playful aquatic effects.

Gracia & Vigil constructed multiple other attractions for Water Country USA as well including Aquazoid, Big Daddy Falls, H2O UFO, Malibu Pipeline, Meltdown, and Cow-A-Bunga. These attractions encompass more than 21,000 square feet with multiple water toys and features.

GRACIA & VIGIL
The GraceHill Group Corp.
COMMERCIAL SWIMMING POOLS

Busch Gardens "Sesame Street Elmo's Castle"

Williamsburg, VA

Owner:
Busch Entertainment Corp.
One Busch Gardens Boulevard
Williamsburg, VA 23185
757.253.3426
www.a-bsupplierdiversity.com

Pool Builder:
Gracia & Vigil
4980 Euclid Road
Virginia Beach, VA
757.493.2905

General Contractor:
David A. Nice Builders, Inc.
4571 Ware Creek Road
Williamsburg, VA 23188
757.566.3032
www.davidnicebuilders.com

Architect:
Peckham Guyton Albers & Viets Inc.
200 North Broadway
Suite 1000
St. Louise, MO, 63102
314.231.7318
www.pgav.com

Project Team:
Mike Gracia, Field Project Manager
David Vigil, Exec. Project Manager

Contract Amount: $226,000

Sesame Street Elmo's Castle Water Park and Flume Ride features a "16 jumping nozzle" water tunnel with three different aquatic programs. The play park contains multiple interactive water attractions including Water-Os, dumping buckets, rain curtains, curvy canes, and pop-up nozzles.

In addition to the children's area Gracia & Vigil built the water splash basin for the Griffin roller-coaster and several fountains throughout the park.

4980 EUCLID ROAD • VIRGINIA BEACH, VIRGINIA 23462 • 757-493-2905

GRACIA & VIGIL
The GraceHill Group Corp.
COMMERCIAL SWIMMING POOLS

Simon Family Jewish Community Center

Virginia Beach, VA

Owner:
Jewish Community Center of South Hampton Roads
7300 Newport Avenue
Norfolk, VA 23505
757.489.1371
www.jccshr.org

Pool Builder:
Gracia & Vigil
4980 Euclid Road
Virginia Beach, VA
757.493.2905

General Contractor:
W.M. Jordan Company
11010 Jefferson Avenue
Newport News, VA 23601
757.596.6341
www.wmjordan.com

Pool Architect:
Siska-Aurand Landscape Architect
523 West 24th Street
Norfolk, VA 23517
757.627.1407
www.siskaaurand.com

Project Team:
Mike Gracia, Field Project Manager
David Vigil, Exec. Project Manager

Contract Amount: $190,000

The Simon Family Jewish Community Center has both indoor and outdoor aquatic facilities. Gracia & Vigil constructed a 25M indoor pool that connects to an indoor water play park. Also indoors there is an 800 square foot 6-foot deep therapy pool.

The Outdoor Pool is a 25M competition pool with an attached activity pool featuring a zero depth beach entry, water spray park, and large play slide.

GRACIA & VIGIL
The GraceHill Group Corp.
COMMERCIAL SWIMMING POOLS

Salisbury Country Club

Midlothian, VA

Owner:
Salisbury Country Club
13620 Salisbury Road
Midlothian, VA 23113
804.794.6841

Pool Builder:
Gracia & Vigil
4980 Euclid Road
Virginia Beach, VA
757.493.2905

General Contractor:
Century Construction Company, LLC
7416 Forest Hill Avenue
Richmond, VA 23225
804.330.4400
www.centuryconstruction.com

Architect:
Draper Aden Associates
8090 Villa Park Drive
Richmond, VA 23228
804.264.2228
www.daa.com

Pool Architect:
Siska-Aurand Landscape Architect
523 West 34th Street
Norfolk, VA 23517
757.627.1407
www.siskaaurand.com

Project Team:
Mike Gracia, Field Project Manager
David Vigil, Exec. Project Manager
Becky Bachmeier, CIT, Admin Project Manager

Contract Amount: $792,000

Salisbury Country Club is a private, member owned club established in 1963. Although located within the Salisbury subdivision of Chesterfield County, the country club derives its membership from many sections of the Richmond Metropolitan area.

Partnering with Siska-Aurand, Gracia & Vigil constructed an Outdoor 25M Pool that contained a Spray Park, Beach Entry, Aquatic Gazebo, 1M Diving Board, and a 6 Lane 25M competition pool.

GRACIA & VIGIL
The GraceHill Group Corp.
COMMERCIAL SWIMMING POOLS

YMCA Williamsburg

Williamsburg, VA

Owner:
Peninsula Metropolitan YMCA
101 Long Green Boulevard
Yorktown, VA 23693
757.223.7925

Pool Builder:
Gracia & Vigil
4980 Euclid Road
Virginia Beach, VA
757.493.2905

General Contractor:
Henderson, Inc.
5806 Mooretown Road
Williamsburg, VA 23188
757.565.1090
www.hendersoninc.com

Architect:
James River Architects
11832 Rock Landing Drive
Newport News, VA 23606
757.595.5504
www.jamesriverarchitects.com

Pool Architect:
Pool Design Consultants, Inc.
5946 Millbury Court
Charlotte, NC 28211
704.362.3144
www.pooldesignconsultants.com

Project Team:
Mike Gracia, Field Project Manager
David Vigil, Exec. Project Manager

Contract Amount: $727,000

The Williamsburg YMCA has two 25M swimming pools, large slide, and whirlpool.

Additionally, we have built five other facilities for the Peninsula Metropolitan YMCA including Smithfield, Yorktown, Hampton, Northumberland County and Portsmouth.

GRACIA & VIGIL
The GraceHill Group Corp.
COMMERCIAL SWIMMING POOLS

Southall & Mounts Bay Recreation Centers

Williamsburg, VA

Owner:
KCSA
300 McLaws Circle
Williamsburg, VA 23185
757.253.3914
www.kingsmillcommunity.org

Pool Builder:
Gracia & Vigil
4980 Euclid Road
Virginia Beach, VA
757.493.2905

General Contractor:
Henderson, Inc.
5806 Mooretown Road
Williamsburg, VA 23188
804.330.4400
www.henersoninc.com

Architect:
Club Source Design, LLC
3111 Northside Avenue
Richmond, VA 23228
804.262.2220
www.clubsourcedesign.com

Pool Architect:
Siska-Aurand Landscape Architect
523 West 34th Street
Norfolk, VA 23517
757.627.1407
www.siskaaurand.com

Project Team:
Mike Gracia, Field Project Manager
David Vigil, Exec. Project Manager

Contract Amount: $795,000

The Southall & Mounts Bay Recreation Centers feature 5,416 square feet of aquatic fun. The pool has a zero-depth entry, slide, and two Kiddie Pools containing soft-side sea turtles and playful water geysers.

Other projects undertaken by Gracia & Vigil include the renovation of the 191,728 gallon existing pool.

GRACIA & VIGIL: ADDITIONAL NOTABLE PROJECTS

Design Build Government Projects

- Langley Fit ness Center, Langley AFB, Hampton, VA
- Ft. Monroe Combined Activity Center, Ft. Monroe, Hampton, VA
- Aircrew Water Survival Training Facility, NAS Norfolk, VA

Recreation Center Facilities

- Salisbury Country Club, Midlothian, VA
- Kingsmill Recreation Center, Williamsburg, VA
- Kingsmill Sports Club, Williamsburg, VA
- Rivers Edge Community Center, Kingsmill Community, Williamsburg, VA
- Warehams Pond Community Center, Kingsmill Community, Williamsburg, VA
- Hampton Roads Marina, Hampton, VA
- Colonial Heritage Development Swimming Pools, Williamsburg, VA
- The Heights at Olde Towne, Portsmouth, VA
- The Myrtles at Olde Towne, Portsmouth, VA
- East Beach Clubhouse, Norfolk, VA

Therapeutic Facilities

- Virginia Beach General Hospital Therapy Pool, Virginia Beach, VA
- Vanderbilt Stallworth Rehabilitation Hospital, Nashville, TN
- Advanced Orthopedic Center, Richmond, VA
- Chippenham Sports Medicine Complex, Richmond, VA

Hotels

- Hilton Garden Inn, Suffolk, VA
- Sleep Inn, Chesapeake, VA
- Chesapeake Wingate Inn, Chesapeake, VA
- Holiday Inn SunSpree, Virginia Beach, VA
- Wingate Inn, Virginia Beach, VA
- Country Inn & Suites, Williamsburg, VA
- Embassy Suites Hotel, Hampton, VA
- Homewood Suites, Virginia Beach, VA
- Comfort Inn, Chesapeake, VA
- Comfort Inn, Suffolk, VA
- Comfort Suites, Suff olk, VA
- Country Inn & Suites, Virginia Beach, VA

Michael A. Gracia

President

Years of Experience

34 Years in Commercial Swimming Pool Construction and High End Residential Swimming Pool Construction

34 Years with Garcia & Vigil

As co-owner of Gracia & Vigil, The GraceHill Group Corp., Michael is directly responsible for all construction output, field personnel, fabrication, and field coordination. He participates in all construction projects as the Senior Field Project Manager.

HIGHLIGHTED AQUATIC/RECREATION EXPERIENCE

Kempsville Community Recreation Center – Virginia Beach, VA
Williams Farm Community Recreation Center – Virginia Beach, VA
The Country Club of Virginia – Richmond, VA
Magnolia Green Aquatic Center – Moseley, VA
Water Country USA Hubba Hubba Highway – Williamsburg, VA
Busch Gardens Sesame Street Spray Park – Williamsburg, VA
YMCA Williamsburg – Williamsburg, VA
Salisbury Country Club – Midlothian, VA
Southall & Mounts Bay Recreation Centers – Williamsburg, VA

GRACIA & VIGIL
The GraceHill Group Corp.
COMMERCIAL SWIMMING POOLS

David A. Vigil II

Vice President | Treasurer | Secretary

Education

Tidewater Community College, Engineering Program, 1980-1982

Years of Experience

37 Years in Commercial Swimming Pool Construction and High End Residential Swimming Pool Construction

34 Years with Garcia & Vigil

As co-owner of Gracia & Vigil, The GraceHill Group Corp., David is directly responsible for all office personnel, pre-construction services, estimation and contract administration. He regularly participates in the construction projects as an Executive Project Manager. Further, he oversees all accounts payable, accounts receivable and human resources. His corporate responsibilities include all financial documentation, banking, insurance and all governmental compliance requirements.

HIGHLIGHTED AQUATIC/RECREATION EXPERIENCE

Kempsville Community Recreation Center – Virginia Beach, VA
Williams Farm Community Recreation Center – Virginia Beach, VA
The Country Club of Virginia – Richmond, VA
Magnolia Green Aquatic Center – Moseley, VA
Water Country USA Hubba Hubba Highway – Williamsburg, VA
Busch Gardens Sesame Street Spray Park – Williamsburg, VA
YMCA Williamsburg – Williamsburg, VA
Salisbury Country Club – Midlothian, VA
Southall & Mounts Bay Recreation Centers – Williamsburg, VA

GRACIA & VIGIL
The GraceHill Group Corp.
COMMERCIAL SWIMMING POOLS

Collegiate School Aquatic Center (SwimRVA)

Job Address: **5050 Ridgedale Parkway**
Richmond, VA 23234

Contract Award Amount: **$2,200,000**
Completion Date: **December 2012**
Project Manager: **Mark Sankey**

Owner: **Greater Richmond Aquatics Partnership**
Address: **5050 Ridgedale Parkway**
Richmond, VA 23234

General Contractor: **Hourigan Construction**
Address: **411 E Franklin St #400**
Richmond, VA 23219

Contact No.: **(804) 282-5300**
Point of Contact: **Brian Butler**

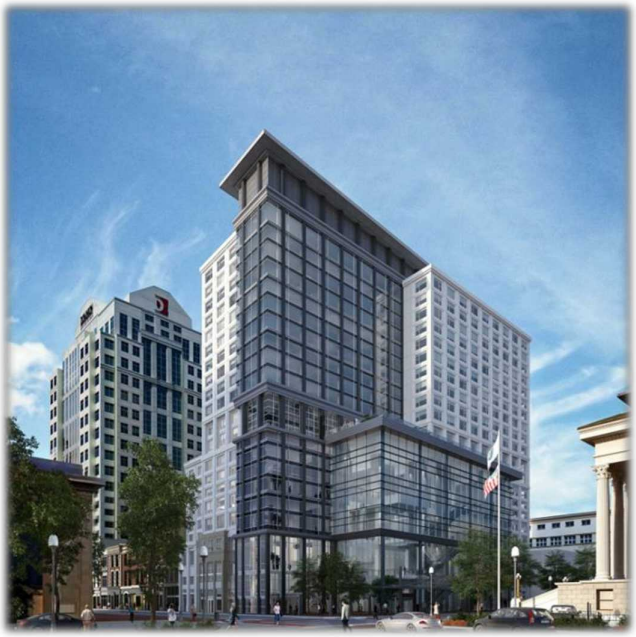
Scope: **This project consists of a (1) story, (53,760) square foot building for the Greater Richmond Aquatic Partnership that will serve as a competitive aquatics center. It includes a 50-meter competition pool relocated from the 2008 Olympic Trials Pool in Chesterfield County and also houses a 25-yard multi-purpose pool, physical therapy pool, seating capacity for nearly 700 spectators, 4,000 SF of locker room space, and a fitness center.**

The project's Heating, Ventilation and Air- Conditioning (HVAC) system consists of four DX Roof Top A/C units (60 tons total) with gas heat and energy recovery wheels. The three pool areas are served by pool dehumidification units selected to remove over 1200 lbs/hr total. Also included are several ductless split systems and electric unit heaters.

This project's plumbing system consisted of large central men's & women's toilet/shower/locker areas, a pair of ADA Unisex bathrooms and a public women's and men's bathroom. Each of the three pools is surrounded by a perimeter trench drain. Rain water is collected through roof drains.

Norfolk Hotel & Conference Center

Job Address: **100 East Main Street**
Norfolk, VA 23510



Contract Award Amount: **$16,400,000**
Completion Date: **March 2017**
Type: **Design-Build**

Owner: **Gold Key-PHR Hotels & Resorts**
Address: **300 32nd Street, Suite 400**
Virginia Beach, VA 23451

Architect: **Cooper Cary, Inc.**
Address: **625 N. Washington Street, Suite 200**
Alexandria, VA 22314

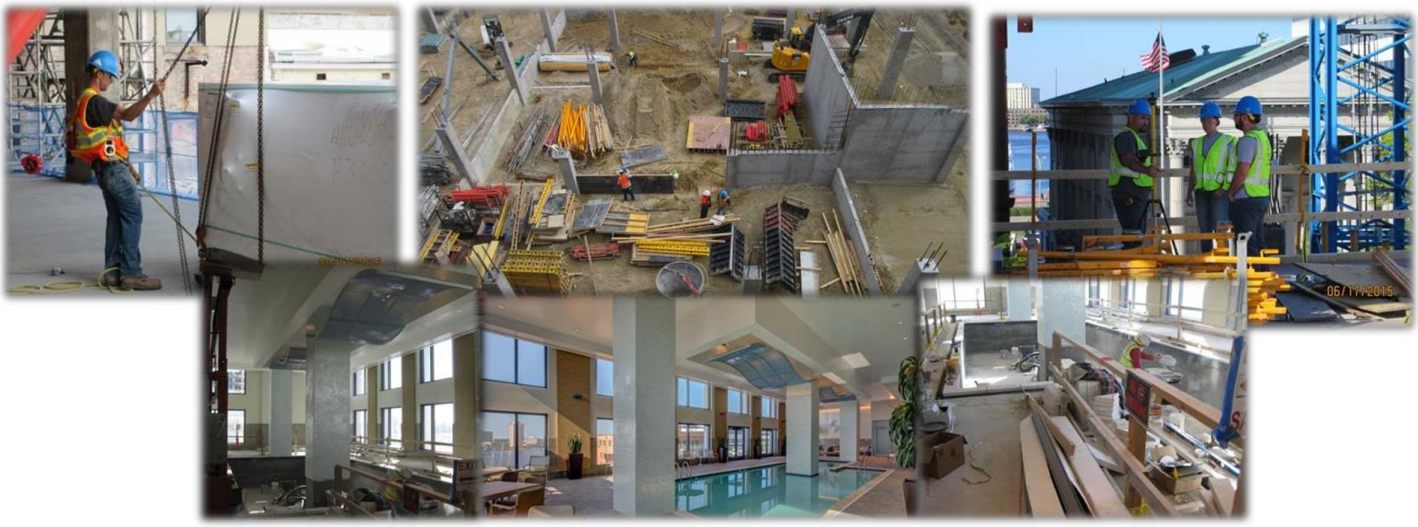
General Contractor: **W. M. Jordan Company**
Address: **11010 Jefferson Avenue**
Newport News, VA 2323601

Contact: **Mike Dubose (757) 596-6341**

Scope: **This Design-Build project is new construction of a 23-story, 350,000 square foot luxury hotel and conference center. The features include: a Grand Ballroom, Three World Class Restaurants, a Roof Garden and Lounge, Indoor Pool, 50,000 square feet of State of the Art Classrooms and Conference rooms, 308 Guestrooms, Eleven Luxury Rooms, and Two Presidential Suites.**

Our Plumbing work consists of plumbing associated with 5 Restaurants, Conference Center, Ballroom, and 318 Hotel Suites. Project consist of over 110,000 linear feet of Pipe and 1,200 Plumbing Fixtures. Project is served by central water heating system and Domestic water Booster Pump.

Our mechanical work supporting the same areas consists of over 28,000 feet of piping, Sheet Metal Ductwork including kitchen exhaust systems to support restaurants, Water Cooled Chillers, Air Handling units, Cooling towers, Water Source Heat Pumps, and Boiler Systems.



Hyatt House

Job Address: **2705 Atlantic Avenue**
Virginia Beach, VA 23451

Contract Award Amount: **$5,584,000**
Completion Date: **In Process**
Owner: **27th Street Hotel Associates LLC**
Address: **222 Central Park Avenue, Suite 2100**
Virginia Beach, VA 23462

Architect: **BBGM Architects/Interiors**
Address: **1825 K Street N. W., Suite 300**
Washington DC 20006

General Contractor: **Armada Hoffler Construction Co.**
Address: **249 Central Park Avenue, Suite 300**
Virginia Beach, VA 23462

Contact: **Jake Leatherbury (757) 366-4000**

Scope: **This Design-Build project is for the construction of a 19-Story, 105,000 square foot high rise hotel with retail space, parking, an indoor heated pool, and 156 guest rooms .**

Our work consists of all plumbing and mechanical work.

Our Plumbing work consists of installation of Plumbing Fixtures, Water Heaters, Storage Tank, Expansion Tanks, Domestic Water Booster Pump, Circulating Pumps, Sump Pumps, Hose Bibbs, Wall Hydrants, FO Tank Filling system, Cleanouts, Floor Drains, and Carriers, Backflow Preventers, Pressure Reducing Valves, Thermostatic Mixing Valves, Balancing Valves, Trap Primers, Water Hammer Arrestors, Pressure Gauges and Thermometers, Commercial Kitchen Grease Interceptor, Water Filter, Aerators, Deaerators and all associated piping.

Our mechanical work consists of installation of Cooling Towers, Condensing Boilers, DOAS AHU & RTU, Pool Room Dehumidification Unit, Unit Heaters, Split systems, 170 Water Source Heat Pumps and valve packages, Condensate Pumps, Pool Heater, VFDs, Fans, Pumps, Suction Diffusers, Triple Duty Valves, Air Separators, Expansion Tanks, and P&F Heat Exchanger, BAS Controls, and all associated piping.

Mike Mutch

Design Build Project Manager

Mike provides oversight and direction of the design in order to maintain project objectives relating to design intent, budget and schedule. He participates in progress and design meetings, providing critical information to our estimating and construction teams that enables them to provide the design comparisons and pricing required for the project.

Education

Virginia Tech
B.S. Mechanical Engineering, 2003

Years of Experience

14 Years in the Construction Industry
2 Years with Warwick Mechanical Group

LICENSES/CERTIFICATIONS

ASHRAE Member

Engineer In Training (EIT), Virginia

HIGHLIGHTED EXPERIENCE

NNSY B-282 Shacklette Hall – Portsmouth, VA
Regent Library Cooling Tower Replacement – Virginia Beach, VA
Williamsburg Lodge Tazewell Hall Model Room – Williamsburg, VA
Chrysler's Perry Glass Studio – Norfolk, VA
Brook Crossing Office Building – Newport News, VA

David Fulcher

Project Manager

As project manager, David manages the day to day details and ensure no delays are caused by the administration of the project. He works closely with the foreman to ensure that field operations has everything they need to keep the flow of work at optimal efficiency. David's commissioning background brings a valued perspective to the job and will provide an added level of oversight. He well equipped to handle the fast pace requirements of this project and to ensure deadlines are met.

Education

Virginia Tech
B.S. Mechanical Engineering, 2003

Years of Experience

5 Years in the Construction Industry

Training & Continuing Education

Mitsubishi City Multi Field Service Course

LG Multi V 4 Installation Course

Sandler Leadership Training

HIGHLIGHTED EXPERIENCE

Ferguson HQ#l Replace RTU – Newport, News, VA
FBI Building – Chesapeake, VA
RRMC Vertical Expansion – Newport News, VA
Jefferson Lab UIM Process Cooling – Newport News, VA
Kecoughtan HS HV AC Replacement – Hampton, VA
Jefferson Lab Data Center – Newport News, VA
Toano Middle School Renovation – Toano, VA
CNU Residence Hall V – Newport News, VA
Jefferson Lab 12Gev Tunnel AC – Newport News, VA
Syms MS HV AC Replacement – Hampton, VA

Robert Branch

Foreman

All WMG foremen are expected to honor our commitment to be recognized for providing quality service and workmanship combined with honesty and integrity. As Project Foreman, Robert oversees the complete installation of mechanical systems and services. Robert is charged with maintaining compliance with all local, state and federal regulations within Warwick's contract scope. He works closely with GC Commercial's Supervisors, Warwick's Project Manager, equipment suppliers, and each of the subcontractors to safely and efficiently coordinate work.

Education

New Horizon's 5-year Apprentice Program

Years of Experience

29 Years in the Construction Industry
29 Years with Warwick Mechanical Group

LICENSES/CERTIFICATIONS

Scissor Lift

High Lift Certification

Construction Quality Man

CDL Class "A"

OSHA 15, OSHA 30, CPR

HIGHLIGHTED EXPERIENCE

Canon VAL Expansion – Newport News, VA
Riverside Doctor's Hospital – Williamsburg, VA
Old Point National Bank – Hampton, VA
Walter Reed Patient Room Renovation – Gloucester, VA
Peninsula Community Chapel – Yorktown, VA
VIMS Research Facility – Gloucestor Point, VA
Stratford University – Newport News, VA
Walter Reed ICU Addition – Gloucester, VA

WARWICK
MECHANICAL GROUP

Settlement at Powhatan Creek Clubhouse

James City County, Virginia

The Settlement at Powhatan Creek is a new planned active adult community of 400 custom homes in the heart of Williamsburg's Monticello area. The centerpiece of The Settlement at Powhatan Creek is the 15,000 square foot luxury Residents Club. This private clubhouse features indoor and outdoor pools, aerobics studio and fitness room as well as a billiards lounge with a fireplace, a grand ballroom complete with catering kitchen, an internet café and spaces for arts and crafts or cards. Sited off the community's main traffic circle is the building's main portico with covered drop off for guests. The Residents Club's outdoor patio is appointed with an outdoor fireplace, covered and open patio areas, a fountain flowing into the outdoor pool and an arbor overlooking a new pond. The Residents Club will be available for use by all homeowners in The Settlement.

Stonehouse Laurel Grove Community Park

James City County, Virginia

The Laurel Grove Park Community Center at Stonehouse is composed of an outdoor swimming pool, children's pool, pavilion, playground, walking/riding path, and a clubhouse. The primary design intent for both the building and the site amenities is to complement the natural environment. For the building, this meant creating an architecture that would define the building as a central gathering location for the surrounding neighborhoods, while making a building that blended into its natural surroundings. Along these lines, the building was located on a sloped portion of the site to create a simple, low one story front façade to address a more residential setting, and still allow for a two story façade with decks and patios overlooking the pool and outdoor public spaces.

The interior space of the building mimics the exterior organization with two large gathering areas on the two ends of the building, with a central entry lobby connecting the spaces. The interior continues the natural feel with wood floors, stone tiles, and earthen tone color scheme. The interior also strives to connect the interior of the building back with the natural surroundings via the oversized windows, the glass and door surround on the adjoining patio area, and the two story deck and patios overlooking the woods and pool areas.

2010 Award of Merit, Hampton Roads Association for Commercial Real Estate, Best Recreation/Entertainment/ Hospitality

Colonial Heritage Sports Club

James City County, Virginia

Situated adjacent to the community clubhouse and golf course, this 9,000 square foot, multi-faceted sports facility features an indoor pool, aerobics and weights areas, and locker rooms. The golf pro shop and outdoor café area are located in direct context to the nearby golfers' staging area.

Heritage Shores Clubhouse

Bridgeville, Delaware

The character of Atlantic coastal architecture is reflected in this two-level, 32,000 square foot clubhouse for the new age-restricted Heritage Shores Development in Delaware.

The project includes a 9,000 square foot sports and wellness center which includes an indoor and outdoor open, open exercise area for aerobics and yoga, weights area and locker rooms.

National Association of Home Builders "On The Boards" Active Adult Community, Gold Award 2005

Finalist, Golf Inc. Magazine Annual Clubhouse of the Year Awards (top 5 finisher in the USA)

Quarterpath Recreation Center Expansion

Williamsburg, Virginia

Guernsey Tingle conducted a feasibility study in 1999 for the expansion of Quarterpath Recreation Center, with part of the study concentrating on the outdated bathhouse constructed in the 1960's. The existing 23,000 square foot facility served thousands of area residents through youth and adult sports leagues, aerobics, dance and sports camps. While the gymnasiums were actively used, the facility lacked public gathering spaces, flexible programming spaces, support space and staff offices. The final solution outlined in the study included a new 10,000 square foot recreation center addition, plus a new bathhouse that allowed use by indoor patrons without compromising access control for the pool.

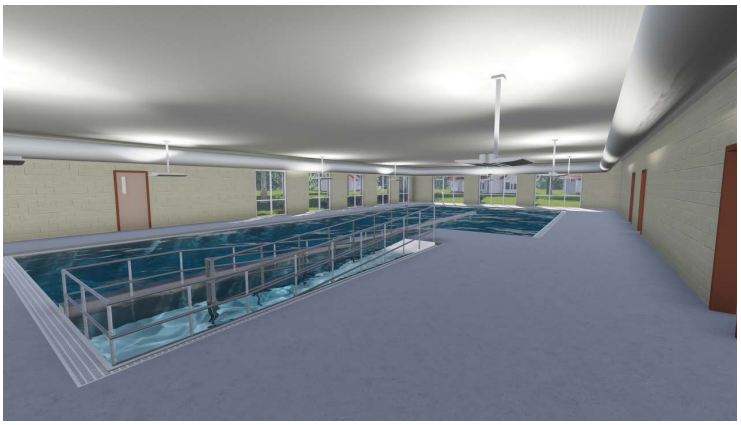
Best Renovation/Addition Project, Virginia Recreation & Park Society, for communities with population of 25,000 or less

Award of Merit, Hampton Roads Association of Commercial Real Estate, Best Renovated Project Category

Rappahannock Westminster-Canterbury Wellness Center

Irvington, Virginia

The Rappahannock Westminster-Canterbury Wellness and Art Center is a 18,400-square foot facility built to replace the campus's existing pool building, relocate their existing art program, and bring together their fitness programs which were scattered throughout several spaces. It was built on the partially wooded section between the main administrative and resident services building and one of the apartment buildings. In addition to the new center, a 350-square foot breezeway was added to connect to the existing breezeway running between these two adjacent buildings. A ramp was incorporated into the new breezeway in order to raise the new building out of the ground.



Westgate Williamsburg Resort

Williamsburg, Virginia

The first vacation ownership facility located within the Williamsburg city limits, Westgate Resort converted a 1960's motel and apartment building into luxury timeshare units reflecting the colonial era. The project includes an on-site reception and sales center, exterior pool, fitness center, game room and other resort amenities. While the guest rooms are small due to the original building configuration, generous use of built-ins, mirrors and strategically placed openings help the units feel much larger than their actual size.

Hampton YMCA

Hampton, Virginia

Guernsey Tingle Architects worked with the Peninsula Metropolitan YMCA to completely renovate an existing YMCA in Hampton, Virginia. The existing facility needed a face lift as well as new HVAC and electrical systems. It now houses larger locker rooms including a family locker area, plus an employee break room. Also added was a spin room, saunas and a massage room. The fitness area and indoor track was updated and outfitted with new lighting, finishes and a major exterior glazed wall for natural light.

Additional Relevant Experience

Governor's Land Park East Recreation Center
Community recreation center with multi-purpose community rooms, bathhouses and support facilities for tennis, swimming and other active recreation.

Fawn Lake
Clubhouse renovations for a lakefront residential golf community.

YMCA Northern Neck
Recreation pool addition to the existing facility. Project will include both recreation and lap swimming features to serve the surrounding community.

Ford's Colony Indoor Pool and Spa
Full service European style spa and exercise facility and dedicated aerobics room and indoor pool.

Bluegreen Patrick Henry Resort
The firm worked with the client to update the interiors of the facility as well as an addition of the indoor pool. The pool offers yearround access for guests with a spacious deck for relaxing.

Thomas G. Tingle, AIA

Principal in Charge

Mr. Tingle's thirty seven years of experience have included responsibility for virtually all phases of architectural projects, from feasibility analysis and programming to specification writing and construction administration. Prior to his association with Guernsey Tingle Architects, he worked for other mid- size and large architectural/engineering firms in the Hampton Roads, Virginia area. He was project manager for larger commercial, governmental, medical, planning and multi-family residential projects throughout the Mid-Atlantic States.

Education

Virginia Tech
Bachelor of Architecture
cum laude, 1980

Years of Experience

38 Years in the Architectural Industry
34 Years with GuernseyTingle

Professional Affiliations

American Institute of Architects

National Council of Architectural Registration Boards

Certificates & Registrations

Virginia, South Carolina, North Carolina, Delaware, Georgia, Florida, Pennsylvania

Other Activities

Peninsula Council for Workforce Development
Workforce Investment Board

James City County Economic Development Authority

Peninsula Metropolitan YMCA Board, Vice President

Greater Williamsburg Partnership, Chairman

Virginians for High Speed Rail
Board of Directors
Co-Chair, Past President

Williamsburg Health Foundation
Board of Trustees

PROJECT EXPERIENCE

Northern Neck YMCA Pool Addition, Kilmarnock, VA

Kingsmill Spa & Sports Club Renovation, James City County, VA

Westgate Resort Pool, Williamsburg, VA

Westgate Resort Renovations, Williamsburg, VA

Rappahannock Westminster Canterbury Wellness Center and Pool Addition, Irvington, VA

Bluegreen Patrick Henry Resort Liberty Natatorium Addition, Williamsburg, VA

Northern Neck YMCA Pool Addition, Kilmarnock, VA

Colonial Heritage Clubhouse & Aquatics Center, James City County, VA

Heritage Shores Clubhouse & Aquatics Center, Bridgeville, DE

The Gathering at Salisburg Clubhouse, Salisbury, MD

Settlement at Powhatan Creek Clubhouse, James City County, VA

Albemarle Plantation Recreation Center, Hertford, NC

Ford's Colony Recreation Center Expansion, James City County, VA

Maple Ridge Multifamily Housing & Clubhouse, Blacksburg, VA

Stonehouse Laurel Grove Park & Community Center, James City County, VA

Stonehouse Orchard Hill Park & Community Center, James City County, VA

Stonehouse Resident's Club, James City County, VA

Bennington on the Park Condominums, James City County, VA

GuernseyTingle
ARCHITECTURE | INTERIORS | PLANNING

Scott VanVoorhees, AIA

Project Manager

Mr. VanVoorhees has a strong background in commercial and industrial design, as well as construction administration. Over the past twenty three years, his experience has ranged from construction site management, to project manager and designer for various clients such as Bluegreen Resorts, Peninsula Metorpolitan YMCA, College of William & Mary, Westgate Resorts, Magnolia Cleaners, US Army Corps of Engineers, Norfolk District, James City County, the City of Virginia Beach, and Fulcrum Concepts.

With GuernseyTingle, Mr. VanVoorhees manages a range of projects, performing client negotiation, design, construction documents and specifications, and construction administration.

Education

Virginia Tech
Bachelor of Architecture
1992

Years of Experience

23 Years in the Architectural Industry
17 Years with GuernseyTingle

Professional Affiliations

American Institute of Architects

Certificates & Registrations

Virginia

Other Activities

Past Chairman, James City County Parks & Recreation Advisory Board

Thomas Nelson Community College
Local College Board Member

Leadership Historic Triangle
Class of 2005

PROJECT EXPERIENCE

Westgate Resort Pool, Williamsburg, VA

Wetgate Resort Renovations, Williamsburg, VA

Rappahannock Westminster Canterbury Wellness Center and Pool Addition, Irvington, VA

Bluegreen Patrick Henry Resort Liberty Natatorium Addition, Williamsburg, VA

Northern Neck YMCA Pool Addition, Kilmarnock, VA

Stonehouse Orchard Hill Recreation & CommunityCenter, Toano, VA

Stonehouse Resident Club, Toano, VA

VA Boys & Girls Club, Yorktown, VA

College of William & Mary/One Tribe Place, Williamsburg, VA

Great Wolf Lodge Expansion, Williamsburg, VA

Great Wolf Lodge Conference Center, Williamsburg, VA

M Price Distributing Refrigerated Warehouse Expansion, Hampton, VA

Greystone Manufacturing Alternations, Toano, VA

Nicewood Enterprises Maniuacturing Expansion, Toano, VA

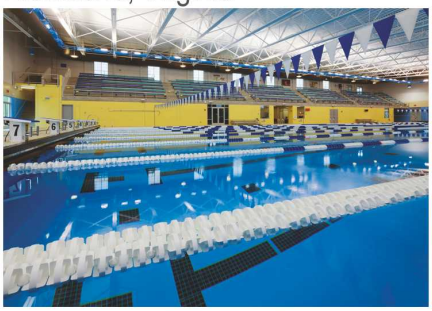
Magnolia Cleaners Laundry Facility, York County, VA

Langley AFB Hangar Addition / Alteration, Hampton, VA

GuernseyTingle
ARCHITECTURE | INTERIORS | PLANNING

GREATER RICHMOND AQUATICS PARTNERSHIP POOL

Richmond, Virginia



OWNER
Greater Richmond Aquatics Partnership (GRAP)
5050 Ridgedale Parkway
Richmond, VA 23234

COMPLETED
2012

WEBSITE
www.swimrichmond.org

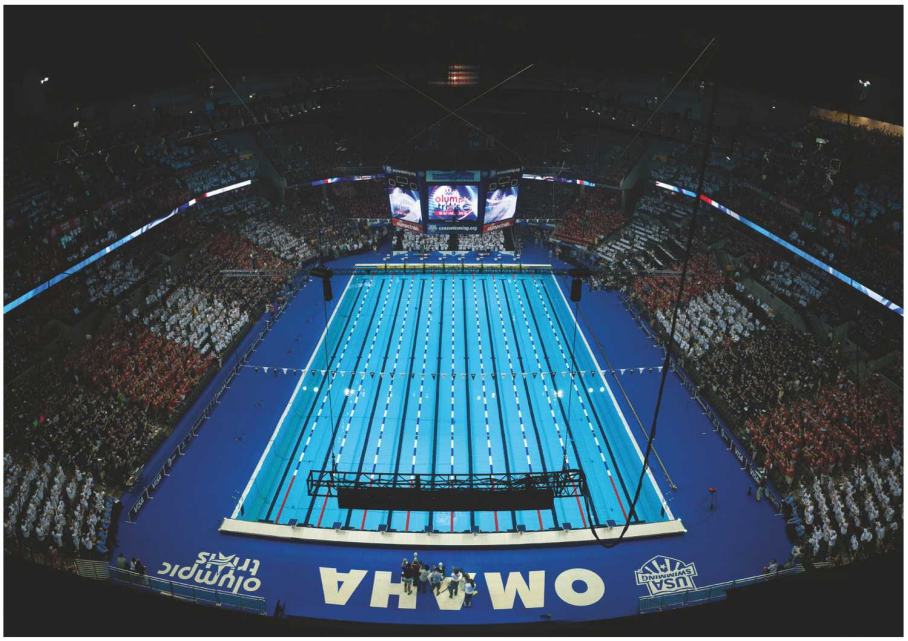
In Fall of 2012, the Collegiate School Aquatics Center (CSAC) opened the doors to a 54,000 square foot indoor aquatic facility in Richmond, VA and is the permanent home to the 2008 Olympic Swimming Trials Competition Pool. The facility and swimming pool was a joint effort between multiple organizations including Poseidon Swimming, Trinity Episcopal School, The Richmond Kickers and Sports Backers, which make up the Greater Richmond Aquatics Partnership (GRAP).

Water Technology, Inc. (WTI), alongside the architect Myrtha Pools, provided a review of the installed swimming pool components and provided engineering recirculation system construction documents for the reconstruction of the 50 Meter Myrtha pool, formally used for the 2008 Olympic Trials in Omaha, Nebraska.

The 50 meter, 8 lane competition pool was reassembled and waterproofed with a PVC membrane floor. It also has a moveable bulkhead. Twenty-one American records and nine world records were set in the pool while in Omaha, Nebraska. In addition, the facility includes a six-lane, 25 yard teaching pool and a 3,500 square foot therapy pool, as well as instructional teaching rooms. It is also the only 50 meter pool in Central Virginia.

2008 & 2016 OLYMPIC SWIMMING TRIALS

Omaha, Nebraska



Completed
2008 & 2016

Award(s) / Feature(s)

Gold Medal Winner,
Competition Pool Category
APSP Awards of Excellence,
November 2008

Dream Design Showcase -
Competition Category,
Aquatics International, July/August
2009

Over an eight day span, nine world, 21 American, 19 U.S. Open, and 45 meet records were set in the 2008 Olympic Trials competition pool, temporarily placed in the Arena of the Qwest Center. In total, the event hosted over 700 swimmers.

The planning for the construction of the pools began in July 2007 and the construction began in May 2008, giving Water Technology a short timeline for receiving the appropriate permits from the Nebraska Department of Public Health and meeting the stringent regulations for the design.

The competition pool, manufactured by Myrtha Pools, is a 50 Meter, 10-lane pool and in order to accommodate the pool, the first four rows of seats of the arena had to be removed. The warm-up pool, also a Myrtha, designed in an L-shape has eight 50 meter lanes and five 25 meter lanes. It was housed in the athlete area, along with an athlete lounge with couches, video games, massage area, coaches area, stretching mats, and team mail boxes.

The competition pool featured dual filtration with two separate systems, providing redundancy and a unique upper and lower distribution of pool water return. The system was controlled so that only the lower inlet system was used during the events, therefore providing minimum surface disturbance and optimizing the pool's speed.

Both pools were placed in the Qwest Center temporarily for the meet. They were sold to Poseidon Swim Foundation in Chesterfield, Virginia and transported for final placement after the event. The process of taking the pools down took approximately six days.

AMENITIES

Myrtha Competition Pool:
13,461 SF
50 Meter, 10 Lane

Myrtha Warm-Up Pool:
16,017 SF
"L" Shaped 50 Meter, 8 Lane x 25 Meter, 5 Lane
Starting Blocks
Whirlpool

RECORDS SET

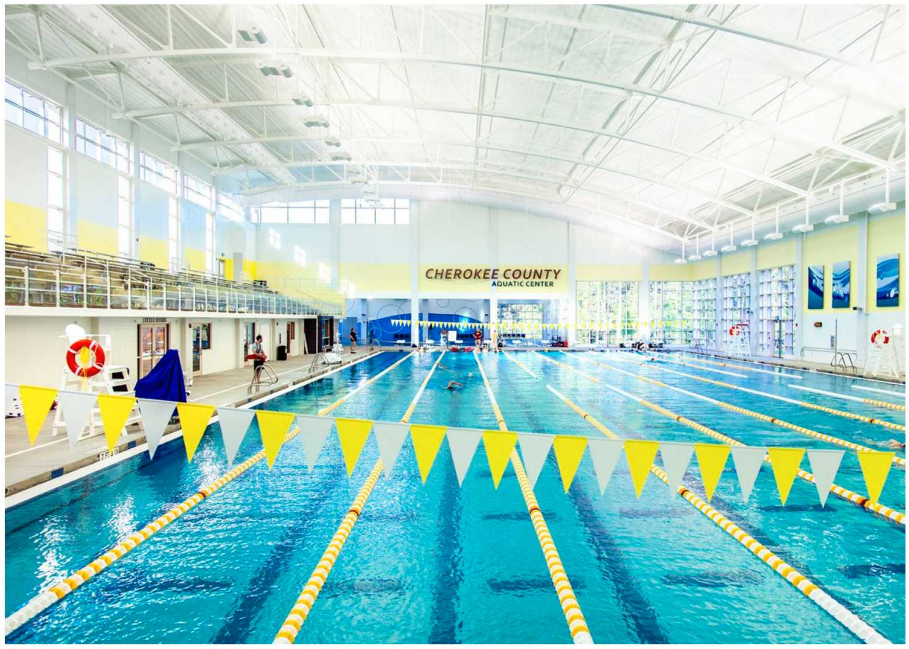
Michael Phelps, 400m IM
Katie Hoff, 400m IM
Hayley McGregory, 100m Back (p)
Natalie Coughlin, 100m Back (p)
Natalie Coughlin, 100m Back
Aaron Peirsol, 100m Back
Aaron Peirsol, 200m Back (F)
Michael Phelps, 200m IM (F)
Margaret Hoelzer, 200m Back (F)

WTI
WATER TECHNOLOGY INC.

WORLD LEADERS IN AQUATIC PLANNING, DESIGN AND ENGINEERING

CHEROKEE CTY. AQUATICS COMPLEX

Holly Springs, Georgia



OWNER

Cherokee Recreation & Parks Agency
7545 Main street Building 200
Woodstock, GA 30188

COMPLETED

2013

AWARDS / FEATURES

Aquatic Design Portfolio Feature
Athletic Business, Jan/Feb 2015

Planning, Design and Development
Outstanding New or Renovated
Expanded Park Award
Georgia Recreation and Park
Association, November 2013

WEBSITE

www.crpa.net

Water Technology, Inc. (WTI) was hired in late 2010 to complete programming, design and engineering for the new Cherokee County Aquatics Complex in Holly Springs, Georgia, a community thirty minutes northwest of Atlanta. The new facility, funded through a 2008 bond, approved $90 Million for financing of parks and greenspace property acquisitions as well as the construction of active and passive parks facilities.

The new $15.7 million facility, completed in May 2013, is designed to accommodate Cherokee area families through a full range of aquatic programming, including competitive and recreation swimming, learn-to-swim, aqua therapy, aquatic exercise classes, and scuba. During programing WTI, alongside the architect, identified aquatic programming goals and objectives for the new aquatic center. From these programming meetings, designers drafted detailed designs to accommodate the programs. The 48,000 SF indoor facility includes a 50 Meter competition pool with spectator seating for up to 750 people, a 25 yard practice / therapy pool, and indoor classrooms. The 18,000 SF outdoor leisure area includes a leisure pool, water playground, water slides, zero depth entry, and plenty of space for lounging.

AMENITIES

Indoor 50 Meter Competition Pool (12,628 SF) with Spectator Seating for 750 Patrons and an Indoor 25 Yard, Warm Water Practice / Therapy Pool (2,631 SF)

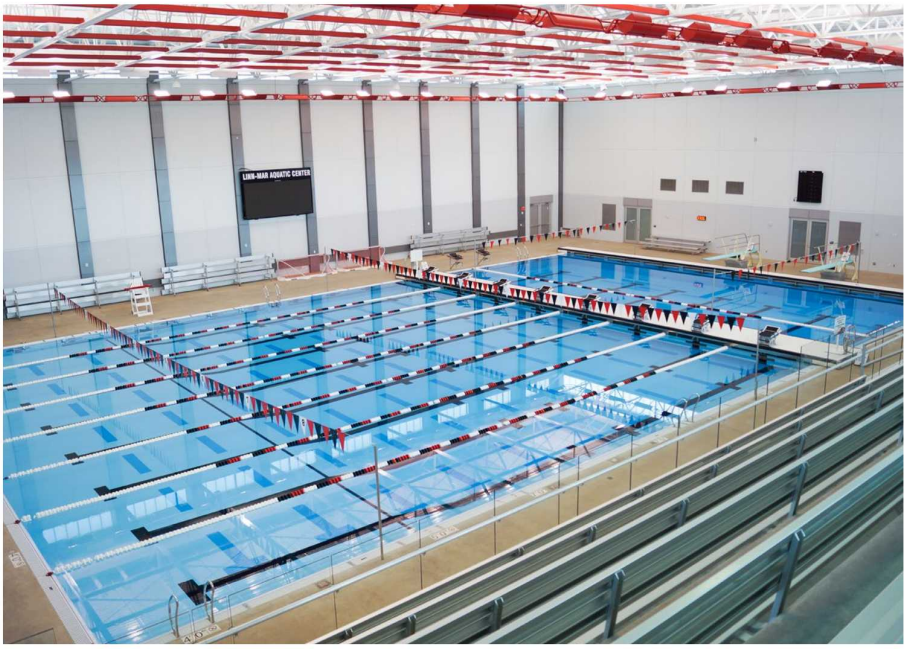
7,859 SF Outdoor Leisure Pool with Zero Depth Entry, Large Interactive Play Structure and Geysers, a Current Channel with Rapid River and Deck Sprays, Body Slide with Plunge Pool and Body Slide with Runout, and a Large Deck with Concessions and Shade Pavilions

WTI
WATER TECHNOLOGY INC.

WORLD LEADERS IN AQUATIC PLANNING, DESIGN AND ENGINEERING

LINN-MAR HIGH SCHOOL

Marion, Iowa



OWNER

Linn-Mar Community School District
2999 N. Tenth Street
Marion, IA 52302

COMPLETED

2013

WEBSITE

www.linnmar.k12.ia.us

Water Technology, Inc. (WTI) teamed with a local architect to design and engineer the new aquatic center. Working closely with the community to understand their aquatic goals, WTI designed a facility that would best meet their needs. The new state-of-the-art facility offers a stretch 25 meter pool with bulk head which can be moved to accommodate 25 yard and 25 meter swimming as well as 1-meter diving competitions, water polo, swimming lessons and other aquatic activities.

Linn-Mar Aquatic Center also utilizes Myrtha Technology. By using Myrtha Technology, the pool is able to be assembled more quickly than the traditional concrete pool. This also allows for all of the work to be completed above the pool before the walls are erected.

AMENITIES

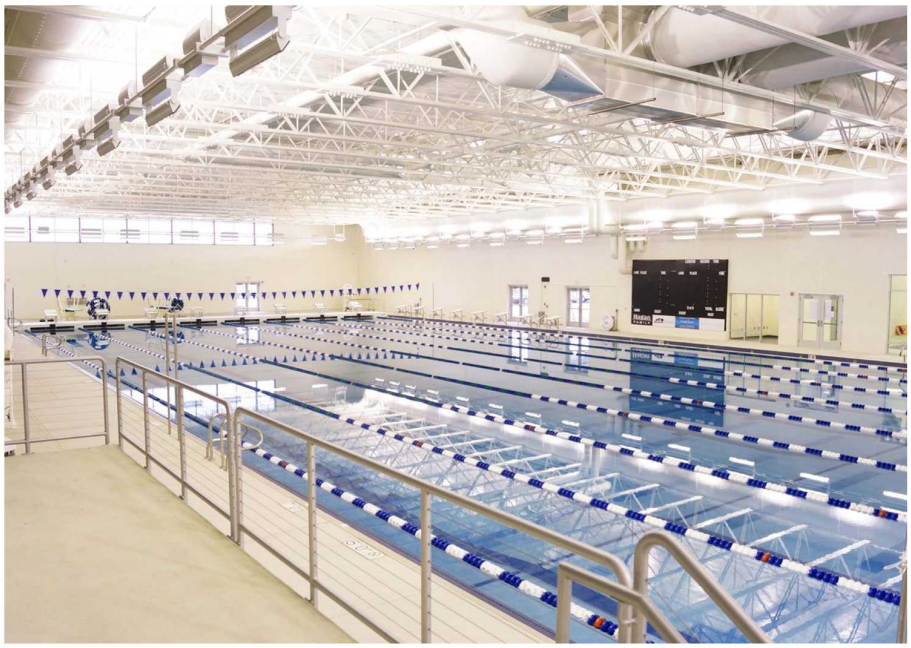
Stretch 25 Indoor Competition Pool (8,901 SF) with Bulkhead and Two 1 Meter Diving Boards

WTI
WATER TECHNOLOGY INC.

WORLD LEADERS IN AQUATIC PLANNING, DESIGN AND ENGINEERING

WILLISTON A.R.C.

Williston, North Dakota



OWNER
City of Williston, ND
Parks and Recreation District
Williston, ND 58802

COMPLETED
2014

WEBSITE
www.willistonparks.com

The Williston Area Recreation Center (A.R.C.) is designed to serve the community of Williston, ND where the population continues to grow at a tremendous rate due to the oil boom in the region. In 2000 the census reported the population to be 14,900 and projected to increase to anywhere from 30,000 to 50,000 in the next 5 to 10 years. The recreational center is built on the campus of Williston State College using a joint powers agreement and an operational agreement with the College, the Park District, and the Board of Higher Education of North Dakota.

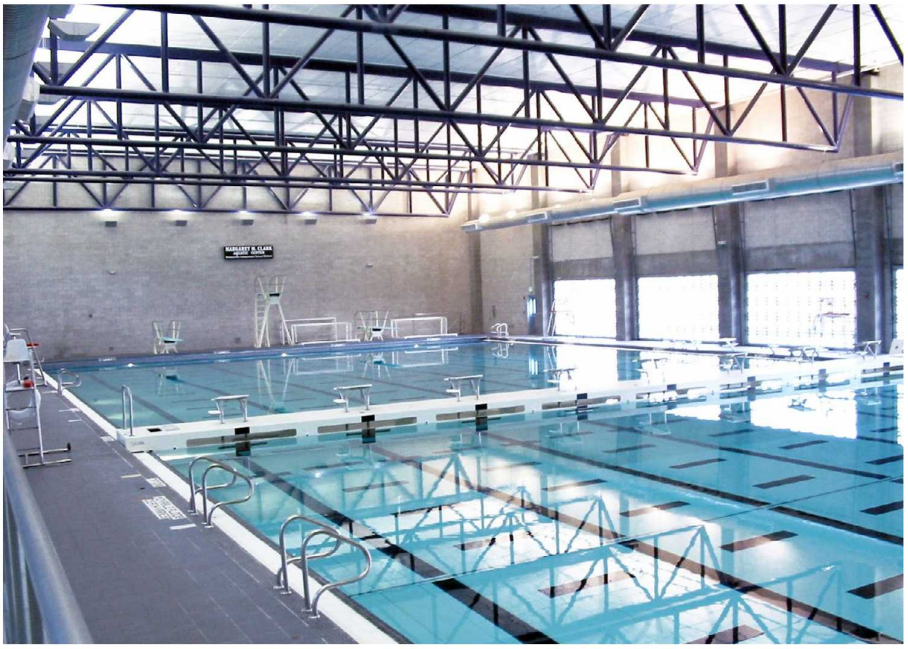
Water Technology, Inc. (WTI) and the architect conducted a series of programming meetings to develop a program that would best fit the current and future needs of the community. The new facility is designed to world class standards and offers something for all ages and abilities. The Aquatic program includes a 53 meter competition pool, a 25 yard warm up pool, a leisure pool, a lazy river, winding body slides into a plunge pool, a FlowRider, and a whirlpool. The competition pool is designed to accommodate large USA Swimming and High School events. The leisure pool theming draws from the area's rich mining industry and includes an oil boom play feature.

The design of the new facility was developed through the innovative Revit and BIM software. This revolutionary design development allows the client to visually understand and conceptualize the final product. At the same time, it permits WTI and the architect to work seamlessly together to produce high quality construction documents.

Additional areas of the recreation center include a gymnasium space, community space, indoor playground, birthday party rooms, fitness areas, office space, indoor turf field, tennis courts, and racquetball courts. The facility is financed through a one cent (1%) sales tax for the Williston Park and Recreation Department. Half of the funds were used to pay the revenue bond for the construction of this project.

BROWNSVILLE ISD NATATORIUM

Brownsville, Texas



OWNER

Brownsville Independent School District
1900 Price Road
Brownsville, TX 78521

COMPLETED

2006 Adaptive Pool
2002 Competition Pool

AWARDS / FEATURES

Best of Aquatics Award for
Best University / School (Class 17)
Aquatics International, Nov/Dec 2007

Excellence in Aquatics Award
(Class IV School)
NRPA's National Aquatic Branch
March 2006

WEBSITE

www.bisd.us

Teamed with Kell Munoz Architects, Water Technology, Inc. (WTI) designed the Margaret M. Clark Aquatic Center competition pool, which is a world class, state-of-the-art venue capable of being configured to host interscholastic, intercollegiate, Olympic and international competitions. The combination of the design elements, depth utilization, wave quelling lane dividers and water removal return, contribute to its recognition as a fast pool.

The dual timing system in the facility provides for 16 lanes of electronic timing and the ability to host large competitions. The deck seating area has a capacity for 850 spectators with room on the deck for another 150 portable seats.

In 2004 WTI was hired again along with Kell Munoz Architects to design the addition of a 4 lane adaptive pool for special needs swimmers. In addition to serving special needs swimmers, it is also used as a warm-up pool for competition.

Mission Statement: "The Margaret M. Clark Aquatic Center shall provide aquatic programs that will enrich the lives of students, faculty, staff, parents and community members of Brownsville Independent School District."

AMENITIES

50 Meter x 25 Yard Indoor Competition Pool with Moveable Bulkhead (638 Bather Load Capacity, 12,632 SF and 800,324 Gallons), One 1 Meter and 3 Meter Diving Boards

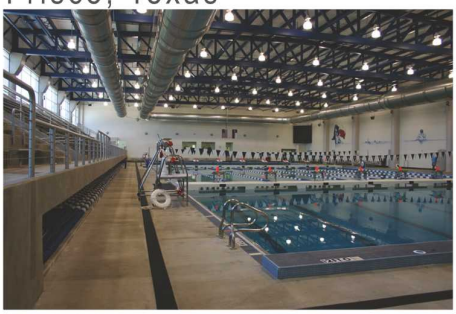
4 Lane, 1,674 SF Adaptive Pool

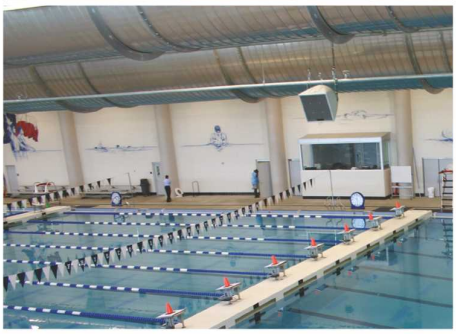
WTI
WATER TECHNOLOGY INC.

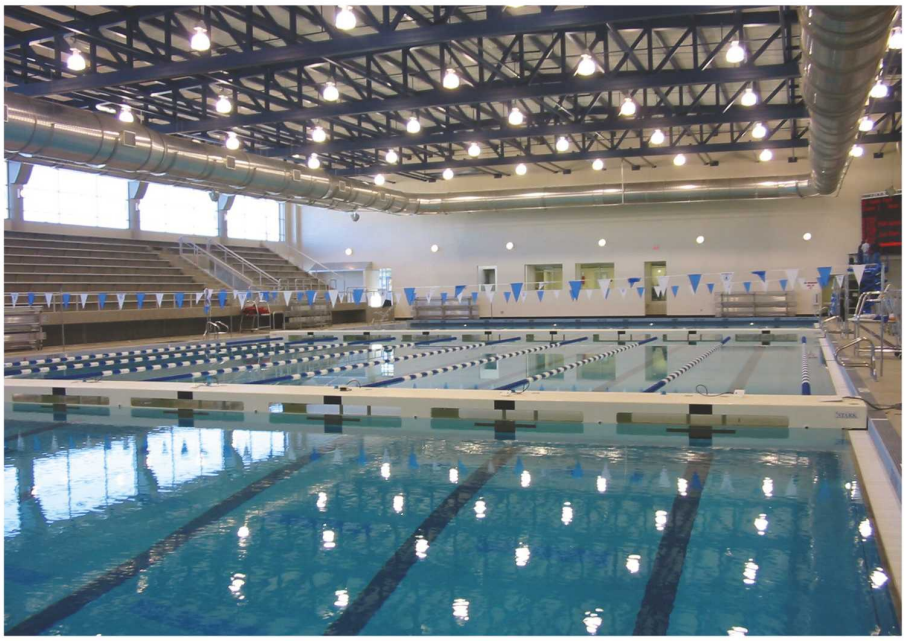
WORLD LEADERS IN AQUATIC PLANNING, DESIGN AND ENGINEERING

FRISCO ISD NATATORIUM

Frisco, Texas







Owner
Frisco Independent School District

Completed
2003

Awards
Architectural Showcase Feature
Athletic Business, June 2006

WWW.FRISCOAQUATICS.COM

It was important to the Frisco Independent School District to create an identity for its sports facilities and ensure the look of the Frisco ISD Natatorium fit in with the district's other athletic venues. Special attention was given during the design phase to the consistency of colors and materials with the school district's football stadium, which neighbors the site.

The 38,000 square foot natatorium features a 50 meter, 25 yard Olympic size pool with eight lanes, two moveable bulkheads, two 1-meter diving boards and one 3-meter diving board. The pool was carefully engineered to provide the fastest possible competitive environment. The bleachers were carefully designed to separate spectators and competitors. Large windows located high on the north-facing wall provide soft, natural daylight, minimizing glare on the pool water. While the facility is owned and operated by the school district, community use is critical to help pay operating costs. This added a requirement for a shallow end where water aerobics and swim lessons can be offered.

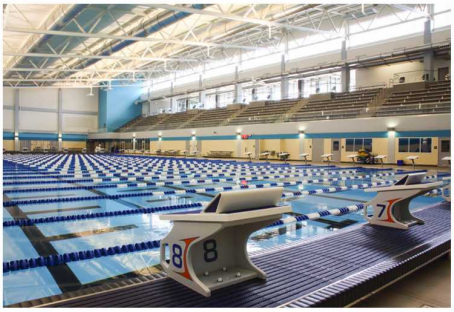
Amenities
38,000 SF Natatorium
50 Meter X 25 Yard Olympic Size Pool
696,416 Gallons
4'0" to 13'0" Depth
8 Lanes
2 Moveable Bulkheads
(2) 1 Meter Diving Boards
(1) 3 Meter Diving Board

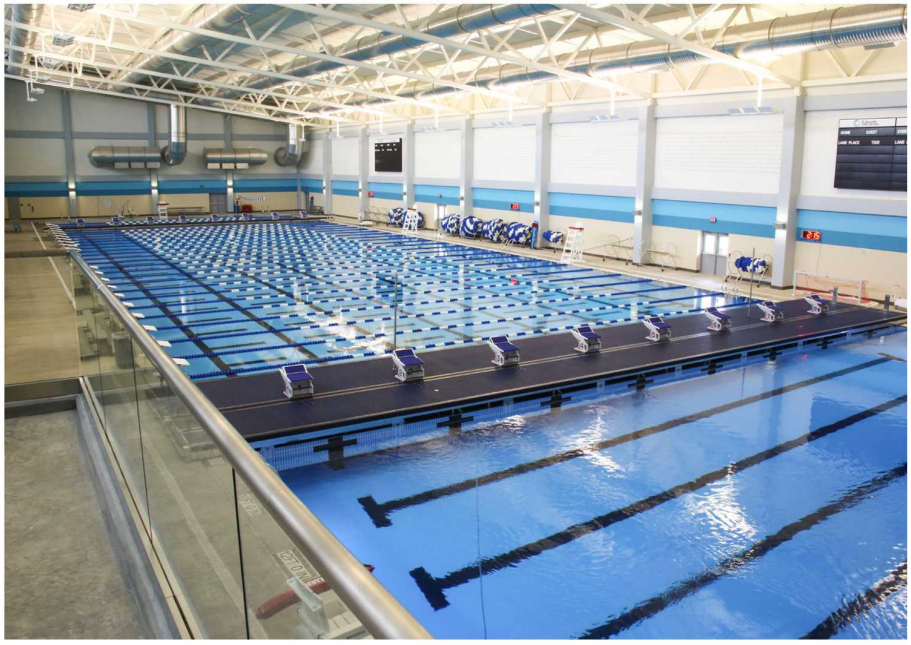
WTI
WATER TECHNOLOGY INC.

WORLD LEADERS IN AQUATIC PLANNING, DESIGN AND ENGINEERING

WESTSIDE AQUATIC CENTER

Lewisville, Texas





OWNER
Lewisville ISD
Lewisville, TX

COMPLETED
2014

WEBSITE
www.lisd.net

The Westside Aquatic Center located in Lewisville, Texas opened in spring 2014 and is home to three local high school swimming and diving teams including Lewisville High School, Flower Mound High School, and Marcus High School. The facility also serves the USA Swimming Lakeside Aquatic Club, USMS Adult Master Swim Team, the local Diving Club, and the North Texas Synchronicity Synchronized Swimming Team. Scuba diving lessons and swimming lessons are also held at the facility. The facility, which is making waves throughout the area for being a “Fast Pool”, in its first prelim/final meet with 487 swimmers broke 1 National Bulgarian Record, 33 Meet Records, 5 National Age Group Records, and achieved 3 Olympic Trial cuts.

Water Technology, Inc. (WTI) was hired by SHW Group to provide design and engineering services for the new aquatic center. The new state-of-the-art Myrtha stretch 50 meter pool includes two movable bulkheads and can be configured for long and short course swimming competitions, lap swimming, water polo, and diving. At the deep end of the pool are two one-meter spring boards and two three-meter spring boards. Agitators are also located at the water surface so that divers can see where the surface of the water is when diving. An additional 4 Lane x 25 Yard warm up pool is located on the East side of the building.

The facility is designed to host large regional competitions with seating accommodations for up to 1,200 spectators. When competitions are not taking place, a part of the bleacher seating area can be retracted and used for dry-land training.

AMENITIES
16,531 SF Competition Pool with Two Bulk Heads
50-Meter Course Layout
25-Meter Course Layout
25-Yard Course Layout
25-Yard Cross Course Layout
1 Meter Diving
3 Meter Diving
2,253 SF Warm-up Pool

WTI
WATER TECHNOLOGY INC.

WORLD LEADERS IN AQUATIC PLANNING, DESIGN AND ENGINEERING

ADAMS 12 FIVE STAR SCHOOLS

Thornton, Colorado

OWNER
Adams 12 Five Star Schools
1500 East 128th Avenue
Thornton, CO 80241

COMPLETED
2010

WEBSITE
www.adams12.org

With the passing of a bond, Adams 12 Five Star Schools is bringing competition swimming to a new level in the Denver area. In June 2009, the district officially broke ground on the new aquatic center across from Horizon High School. Teamed with Barker Rinker Seacat Architecture, Water Technology, Inc. (WTI) designed the 50 Meter Olympic sized competition pool. The solar heated pool is 50 Meters long by 25 yards wide, which can accommodate 10 lanes by 24 lanes. The solar heated pool was designed with floating bulkheads, allowing for the pool to be separated into areas for swimming, diving, and other activities.

This project involves a partnership between the city and school district. As a partner to the school district, the City of Thornton has provided the land to the district at no cost, in addition to the agreement that the City will be responsible for maintaining the landscaping around the facility.

The naming of the facility, Veterans Memorial Aquatic Center, was announced in November 2009. Mark Clark, board of education vice president is quoted saying, “So many graduates of the Five Star District have served our country, and this is an opportunity for us to honor the sacrifices they’ve made to defend our freedoms.”

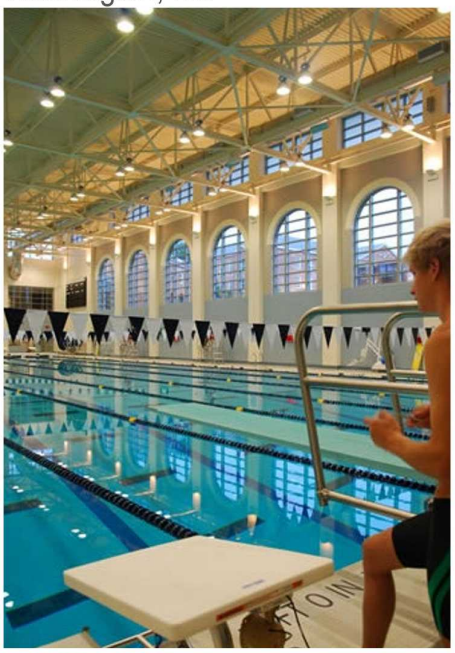
AMENITIES
50 Meter X 25 Yard Competition Pool with Bulkheads and Starting Blocks, Three 1 Meter Diving Boards and One 3 Meter Diving Board, and Spectator Seating

WTI
WATER TECHNOLOGY INC.

WORLD LEADERS IN AQUATIC PLANNING, DESIGN AND ENGINEERING

WOODROW WILSON AQUATIC CENTER

Washington, DC



OWNER
District of Columbia
Parks and Recreation
Woodrow Wilson High School

COMPLETED
2009

AWARDS / FEATURES
Architectural Showcase
Athletic Business, 2011

WEBSITE
www.dgs.dc.gov

The Wilson Aquatic Center opened its doors on August 6, 2009. The old facility, located on the Wilson High School campus, which is located in a diverse social economic neighborhood, was demolished and replaced with the newly re-designed state-of-the-art aquatic center. Water Technology, Inc. (WTI) teamed with Hughes Group Architects in the design of the new aquatic center, which features a competition pool, leisure pool, and whirlpool. Upon entering the lobby, users are greeted with panoramic views of the pool. This was designed as a multi-generational facility, keeping in mind users of all ages and swimming abilities.

The project was a joint venture between the District of Columbia Department of Parks and Recreation and the school district. District residents have access to the aquatic center at no cost, while non-District residents can use the facility for a minimal fee.

AMENITIES
50 Meter x 25 Yard Competition Pool

2,629 SF Leisure Pool with Dumping Bells and Geysers

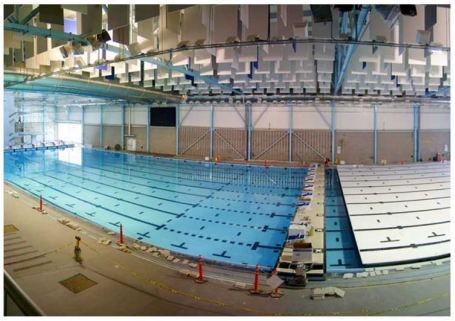
354 SF Adult Whirlpool

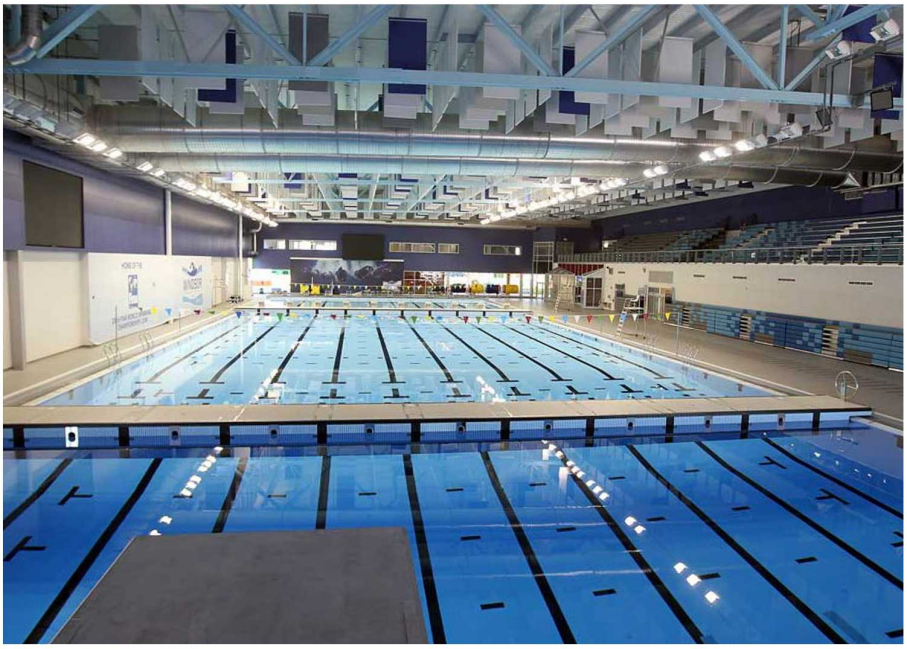
WTI
WATER TECHNOLOGY INC.

WORLD LEADERS IN AQUATIC PLANNING, DESIGN AND ENGINEERING

WIATC

Windsor, Ontario, Canada





OWNER
City of Windsor

COMPLETED
2014

WEBSITE
www.citywindsor.ca

The Windsor International Aquatic and Training Centre (WIATC), located at the Family Aquatic Complex features, a 50 Metre competition pool and leisure area opened in January 2014. Water Technology, Inc. (WTI) and the architect designed the new complex to meet the city's vision to create a complex that would appeal to all Windsor families and provide aquatic entertainment and variety for everyone. The new facility is also expected to help revitalize the downtown area of Windsor through regional aquatic events.

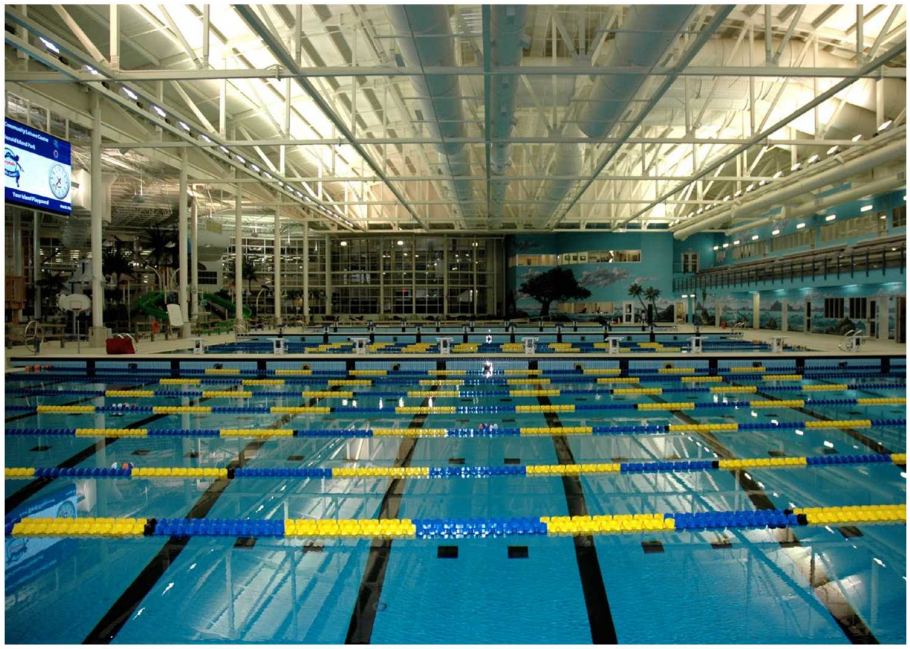
WIATC is the City of Windsor's state-of-the-art aquatics facility. This 71m X 25m, 10-lane pool features two moveable bulkheads that allow for multiple configurations to fit the ideal length for any competition or community use. The pool varies in depthe from 2m to 5.2m, but also features a moveable floor at the north end of the facility, which allows for shallower depths and greater accommodation for community programming. The 50 Metre pool is designed to Swim Canada and FINA regulations.

The Family Aquatic Complex is also home to Adventure Bay Family Water Park, southwestern Ontario's wildest aquatic attraction.

AMENITIES
50 Metre Competition and Warm Up Pool
25m X 17m Moveable Floor
2 Moveable Bulkheads
Dive Tower with Five Platforms at Heights of 1m, 3m, 5m, 7m and 10m
2 Springboards platforms including two 1m and two 3m diving boards
Spectator Seating Area with a Capacity of 900

SUNCOR COMMUNITY CENTRE

Fort McMurray, Alberta, Canada



OWNER

Regional Municipality of Wood Buffalo
3rd Floor, 9909 Franklin Avenue
Fort McMurray, Alberta T9H 2K4,
Canada

COMPLETED

2010

WEBSITE

www.macdonaldisland.ca

This multi-purpose recreation centre is part of the MacDonald Island Redevelopment Project. It is Fort McMurray's cornerstone recreational and sporting facility. Completed in the fall of 2010, the expanded recreation and sports complex accommodates the region's rapidly increasing population and demand.

The project design, management and construction team includes Project Manager Stuart Olson, Barr Ryder Architects, Aquatic Designer Water Technology, Inc. (WTI) and Master Pools. This uniquely qualified team, working closely with the community, has developed an outstanding recreational and sports complex to serve the community.

The Syncrude Aquatic Centre is the aquatic component and includes an Olympic pool, a warm up pool, an adult whirlpool, a family whirlpool and a large recreational pool with interactive play features, a current channel, two waterslides and spray pad. The aquatic design includes state of the art components including Myrtha stainless steel pools and the latest in water treatment including water saving filters and ultraviolet disinfection of the pool water.

AMENITIES

Natatorium Size: 4,707 Sq. m (2,900 for Competition and 1,807 for Leisure)

10 Lane, 54 Metre Competition Pool (1,352 Sq. m, 901 bather capacity) with Two 1 Metre Diving Boards, One 3 Metre Diving Board, and Two Bulkheads

Four Lane, 25 Metre Warm-up Pool (250 Sq. m, 167 bather capacity)

Leisure Pool (470 Sq. m, 313 bather capacity) Featuring Zero Depth Entry with Interactive Water Play Features, A Current Channel with Vortex, an Activity Area, a Tube Slide with Plunge Pool (59 Sq. m) and Body Slide with Runout

Spray Pad (334 Sq. m, 150 bather capacity)

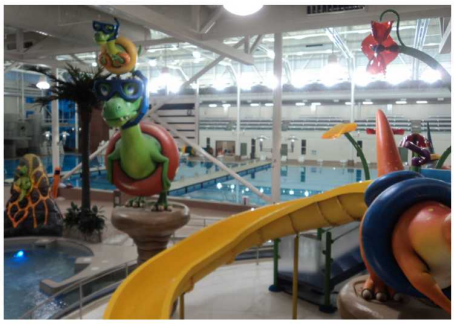
Adult Whirlpool (40 Sq. m, 17 bather capacity) and Family Whirlpool (80 Sq. m, 33 bather capacity)

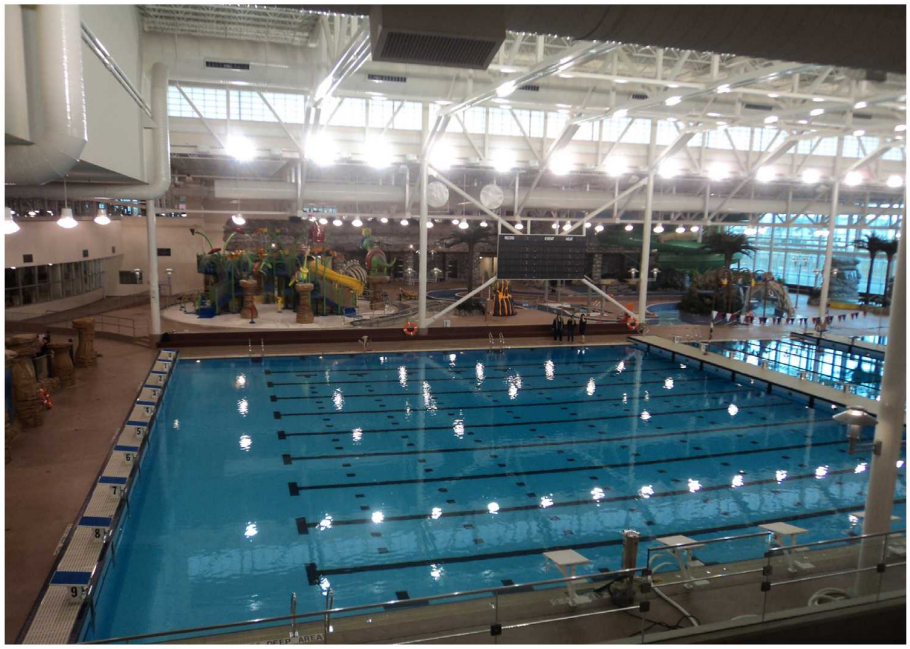
WTI
WATER TECHNOLOGY INC.

WORLD LEADERS IN AQUATIC PLANNING, DESIGN AND ENGINEERING

EASTLINK CENTRE

Grande Prairie, Alberta, Canada





OWNER

City of Grande Prairie, Alberta, CA
Bag 4000
10205 - 98 Street
Grande Prairie Alberta T8V 6V3
Canada

COMPLETED

2011

WEBSITE

www.cityofgp.com

Construction on the new Aquatics and Wellness Multiplex began in November 2008. According to Mayor Dwight Logan, the groundbreaking for the facility represented the largest project the municipality has taken on.

The City of Grande Prairie is one of the fastest growing municipalities in Alberta with a population of about 45,000. Along with the growth of the region, comes the demand for new and improved services, facilities and activities to accommodate the expanding population. The multiplex, including the aquatics designed by WTI, has something for residents and visitors of all ages. The design of the aquatics incorporates an appropriate blend of entertainment value, competitive swimming and exercise opportunities for users, along with advanced technology components such as Myrtha pools. The combination of lap and fitness or competitive swimming along with leisure components into one facility creates a partnership that includes a full spectrum of activities that complement one another well and enhances the popularity of the facility among users.

The facility is fully accessible and is expected to add to the quality of life in the growing community and region. There are also high hopes that it will attract visitors into the city from the surrounding area and beyond.

The multiplex will join the already existing Coca-Cola Centre, St., Joseph High School and the Gymniks Gymnastic Club, to become one of Canada's largest recreational and education facilities.

AMENITIES

50 Metre Competition Pool
Competition Equipment/Bulkheads
Timing and Scoreboard
Diving Platforms
390 Sqm Leisure River Pool
Wave Equipment
Adventure Walk
Vortex
(2) Water Slides
118 Sqm Leisure Pool
Flow Rider

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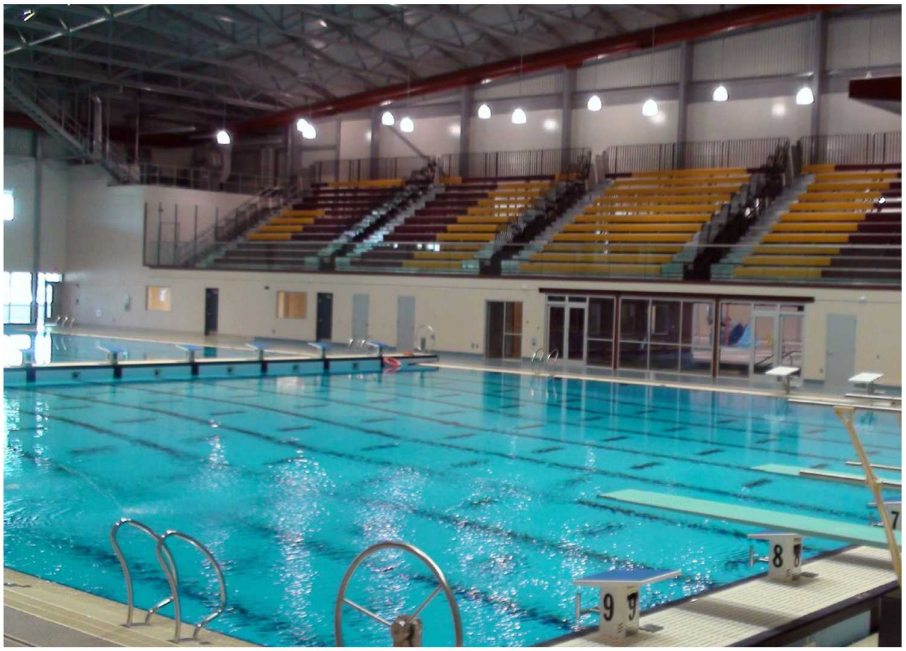
WORLD LEADERS IN AQUATIC PLANNING, DESIGN AND ENGINEERING

SHAW CENTRE

Saskatoon, Saskatchewan, Canada



OWNER
City of Saskatoon

COMPLETED
2009

WEBSITE
www.saskatoon.ca

The first phase of the Shaw Centre opened in January 2008 and includes Bethlehem Catholic High School, Tommy Douglas Collegiate, Hamm Fitness Centre, two shared gymnasiums, and a preschool room.

Residents are taking advantage of increased access to these recreational activities thanks to the investment made by the province of Saskatchewan through the Building Communities Program. Cultural and recreational activities are key contributors to the quality of life these residents enjoy. The Building Communities Program is the largest per capita cultural and infrastructure program in Canada.

Phase 2 of the Shaw Centre included an expansive aquatic centre, designed by Water Technology, Inc. (WTI), which features an Olympic sized competition pool, specifically for hosting international events. In addition to the competition pool, the facility also includes a 6 lane warm-up pool, a leisure pool with water slides and interactive water toys, a lazy river, a family whirlpool, an adult whirlpool, spectator seating, a 3 lane walking track, a cafeteria, a multipurpose meeting room, and a corridor connecting to both schools.

The aquatic centre, designed with state-of-the-art components including Myrtha stainless steel pools, is welcomed by residents of Saskatoon and surrounding areas, as the centre will meet recreation and community needs of the growing neighborhood. Not only will the facility be host to international competitions, students from the two schools attached to the facility will have access to the facility as well. It offers great potential in the future for the schools and Shaw Centre to work together.

AMENITIES

10 Lane, 50 Metre Competition Pool with Headwall, Bulkheads, and Diving Sparger System

6 Lane, 25 Metre Warm Up / Down Pool

Leisure Pool with Zero Depth Entry, Kiddie Slide, and Water Tumble Buckets, a Current Channel, and Water Slide with Runout

Family Whirlpool and Adult Whirlpool with Handicap Ramp Access

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WORLD LEADERS IN AQUATIC PLANNING, DESIGN AND ENGINEERING

UNIVERSITY OF BRITISH COLUMBIA AQUATIC CENTRE

Vancouver, British Columbia, Canada

OWNER

UBC Properties Trust
2329 West Mall
Vancouver, BC V6T 1Z4 Canada

COMPLETED

2017

WEBSITE

www.recreation.ubc.ca/aquatics/

Aquatics has a rich history at the UBC and when the time came to replace their existing aquatic center they knew they wanted a showcase facility. WTI worked with UBC to design a place that met their competitive needs as well as the needs of families with small children. It had to be environmentally friendly, too.

With 40 Olympian alumni swimmers and 34 Canadian Interuniversity Sports titles, they chose a 10-lane 50m 'FINA certified' competition pool. They also added an 8-lane 25m lap pool with diving boards, a leisure pool with plenty of in-water seating for great conversations, a 30-person whirlpool and nearly 1,600 SF of deck space. Ramps in the Lap and Leisure pools make these pools more accessible to everyone.

This facility was designed to meet LEED Gold environmental standards. Holding tanks store rainwater which is treated and used for irrigation, in toilets, and as pool make-up water. Large banks of windows and skylights let in natural light and regenerative media filters provide better quality water while reducing the use of chemicals and water consumption.

This 79,000 square foot facility had a budget of $40 million and is located at the heart of the campus. It includes permanent seating for 500 spectators, and will host major swim meets, water polo, and synchronized swimming events.

AMENITIES

Competition Pool
10-lane 50 metre, Olympic size
Moveable bulkhead

Lap Pool
8-lane 25 Metre
1m diving board
3m diving board
Moveable floor

Whirlpool
430 SF surface area
Seating for 30

Leisure Pool
3,990 SF surface area
Lazy River
Water Sprays
Geysers
Jets
Two Basketball Hoops
Two Floatables
Volleyball Net

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Steve Crocker, PE

Director of Sports Swimming

As principal, Steve works closely with owners and coaches to understand how a facility will be used on a day-to-day basis for training, instruction and recreation to design world-class aquatic facilities. He is a licensed Professional Engineer in nine states and is able to lead a project from the initial programming and planning, through construction and operations start-up. Steve's career began over 30 years ago as an elite swimmer, representing the USA National Team at national and international events and has seen many of the world's greatest facilities from an athlete's point of view. His most notable accomplishments include three-time Olympic Trials participant; two-time National Champion; U.S. Open Champion; NCAA All-American; and NCAA Academic All-American. His highest level of success was in 1992 when he set the World Record in the 50 Meter Freestyle. He continues to be involved in the swimming community as a coach, swim parent, and Masters swimmer.

Education

University of Kentucky
Bachelor of Science, Mechanical Engineering, 1987

Years of Experience

15 Years in the Aquatics Industry
4 Years with Water Technology, Inc.

Training & Continuing Education

Centrifugal Pumps Course, 2017

Certificates & Registrations

Professional Engineer: IL, IN, IA, KY, MI, MN, MO, OH, WI
NSPF Certified Pool / Spa Operator (CPO)

Other Activities

American Swimming Coaches Association (ASCA)
College Swimming Coaches Association of America (CSCAA)
American Society of Mechanical Engineers (ASME)
Themed Entertainment Association (TEA)

PROJECT EXPERIENCE

El Cajon Pool - El Cajon, CA
Montrose Community Recreation Center - Montrose, CO
Elkhart YMCA - Elkhart, IN
Aquatic Center - Franklin, KY
YMCA of Northwest Louisiana, Shreveport, LA
Lovington Community Wellness Center - Lovington, NM
Olympic Trials 2016 - Omaha, NE
Clover School District/YMCA, Clover SC
University of Tennessee - Knoxville, TN
YMCA of Golden Crescent, Victoria, TX
Garland ISD Aquatic Center - Garland, TX
University of Virginia, Charlottesville, VA
UW Madison SERF Natatorium - Madison, WI
Ashwaubenon Community Aquatic Center - Ashwaubenon, WI

PROJECTS COMPLETED WITH PREVIOUS AQUATIC CONSULTING FIRM

University of South Alabama - Mobile, AL
Cullman Wellness & Aquatic Center - Cullman, AL
Auburn University - Montgomery, AL
Auburn University - Auburn, AL
Birmingham CrossPlex - Birmingham, AL
Chandler High School - Chandler, AZ
Berry College - Mount Berry, GA
Vincennes University - Vincennes, IN
Lindsey Wilson College - Columbia, KY
Morehead State University - Morehead, KY
Northern Kentucky University - Highland Heights, KY
Warren County School District - Bowling Green, KY
Coppin State University - Baltimore, MD
Georgetown Preparatory School - Bethesda, MD
University of Maryland - Baltimore, MD
Battle Creek Central High School - Battle Creek, MI
Grosse Pointe South High School - Grosse Pointe, MI
Manistee Community Pool - Manistee, MI
Seaholm High School - Birmingham, MI

Jessica Vanherwaarden

Sports Swimming Designer

Jessica joined WTI in 2000 and is a valuable asset to both the Technical Design and Design Departments. Jessica has been designing and coordinating various projects for the WTI team and works closely with architects and engineers, transforming their ideas into final construction documents, and ultimately designing the clients' vision. She focuses on the technical design of concepts, ADA and State and Health Department code reviews, and bridges the gap between the hand rendered and artistic design and the technical and 3D drawings to enable the project a smooth transition into BIM, schematic, detailed design and construction documents.

Education

Moraine Park Technical College
Associate of Applied Science, Civil/ Structural Engineering

Years of Experience

18 Years in the Aquatics Industry
18 Years with Water Technology, Inc.

Certificates & Registrations

NSPF Certified Pool-Spa Operator

Other Activities

Themed Entertainment Association (TEA)

HIGHLIGHTED PROJECT EXPERIENCE

East Portland Community Center - Portland, OR
Suncor Community Leisure Centre at McDonald Island Park - Fort McMurray, AB
The Edith Ball Adaptive Recreation Center at Reid Park - Tucson, AZ
Cottonwood Community Recreation Center - Cottonwood, AZ
McDowell Mountain Ranch Park and Aquatic Center - Scottsdale, AZ
Robert W. Vaughan Athletic Center - Aurora, CO
Douglas H Buck Center - Littleton, CO
The Splash at Fossil Trace - Golden, CO
North Boulder Recreation Center - Boulder, CO
Carbon Valley Recreation Center - Frederick, CO
Lone Tree Recreation Center- Littleton, CO
Delaware State University Aquatic Center - Dover, DE
Macon State College Recreation and Wellness Center - Macon, GA
Forsyth YMCA - Cumming, GA
West Gwinnett Park and Aquatic Center - Gwinnette County, GA
Cherokee County Aquatics Complex - Holly Springs, GA
C.W. Avery Family YMCA - Plainfield, IL
Covington YMCA- Covington, KY
Livonia Community Recreation Center - Livonia, Ml
Alexandria Area YMCA - Alexandria, MN
Lions Water Adventure at the Woodmen Community Center - Kinston, NC Williston Community Recreation Center - Williston, ND
James W. Roe Memorial Pool - Wayne, NJ
Perinton Community Center - Fairport, NY
Meek Recreation and Aquatic Center at Ohio Wesleyan University - Delaware, OH
VillaSport Athletic Club and Spa - The Woodlands, TX
The Dixon Family Aquatic Center - Fredericksburg, VA
Ray and Joan Kroc Corps Community Center - Norfolk, VA
Danville Family YMCA - Danville, VA
Federal Way Community Center - Federal Way, WA
Sealed Air Family YMCA - Racine, WI
Irwin A. Goodman & Robert D. Goodman Community Swimming Pool at Goodman Park - Madison, WI
Manitowoc Family Aquatic Center - Manitowoc, WI

Matt Freeby, AIA, LEED AP, NCARB

Senior Project Manager

Matthew Freeby has a breadth of experience in the design and construction of numerous building types and structures; with overall responsibility for large project development, he has handled projects ranging from $1 million to $100 million. His project experience ranges from conceptual planning to construction management. Matt is relied upon to define project scope, goals and deliverables that support ' WTI's business goals in collaboration with senior management. He helps to determine and assess need for additional staff and/or consultants and make the appropriate recruitments if necessary during project cycle. A registered Architect in 22 states and a NSPF Certified Pool/Spa Operator, Mr. Freeby is a LEED Accredited Professional with an advanced depth of knowledge in green building practices and sustainable aquatic design and operations. Matt's attention to detail and persistent pursuit of excellence provides the industry benchmark in aquatic design.

Education

Master's Degree, Architecture
Washington University

Master's Degree, Civil Engineering, Construction Management
Washington University

Bachelor of Arts, Architecture
Washington University

Certificates & Registrations

AIA Architect: AL, AR, CA, DE, FL, HI, IN, LA, MI, MN, MO, NE, NJ, NM, NV, NY, OK, RI, TN, UT, WA, WI

LEED Accredited Professional

NSPF Certified Pool / Spa Operator (CPO)

Other Activities

American Institute of Architects (AIA)

National Council of Architectural

Registration Boards (NCARB)

Themed Entertainment Association (TEA)

HIGHLIGHTED PROJECT EXPERIENCE

University of Alabama, Birmingham - Birmingham, AL
Adams 12 Five Star Schools - Thornton, CO
Hinkley High School - Aurora, CO
Woodrow Wilson Aquatic Center - Washington, DC
Delaware State University Aquatic Center - Dover, DE
Kennesaw State University - Kennesaw, GA
Middle Georgia State College - Macon, GA
Collins High School - Chicago, IL
East Aurora High School Pool - Aurora, IL
Glenbrook North High School - Northbrook, IL
Glenbrook South High School - Glenview, IL
Gwendolyn Brooks College Preparatory Academy - Chicago, IL
Township High School District 211 - Hoffman Estates, IL
McLean County School - Normal, IL
Mundelein High School - Mundelein, IL
Niles North High School - Skokie, IL
Northwestern University Norris Aquatic Center - Evanston, IL
Oak Park School District Leak Evaluation - Oak Park, IL
East Lansing High School - East Lansing, MI
Eaton Rapids High School - Eaton Rapids, MI
Marshall Marshall High School - Marshall, MI
Royal Oak High School - Royal Oak, MI
Ohio Wesleyan University - Delaware, OH
Western Oregon University - Monmouth, OR
Dixon Recreation Center Oregon State University - Corvallis, OR
Marywood University - Scranton, PA
University of Memphis - Memphis, TN
Kingwood Park High - Kingwood, TX
UT at Brownsville Wellness, Recreation and Kinesiology Complex - Brownsville, TX
Victoria ISD Natatorium - Victoria, TX
Snohomish School District No. 201 - Snohomish, WA
Baraboo High School - Baraboo, WI
University of Wisconsin UW SERF - Madison, WI
University of Wisconsin Platteville Natatorium Study - WI
University of Wisconsin River Falls Natatorium Study - WI
Shepherd University - Shepherdstown, WV

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Claude E. Rogers, Jr., ASLA

Senior Project Designer

Claude's creative expertise in the conceptual design of aquatic facilities is recognized by the successful implementation of over 600 pool design projects throughout his career, several of which have won national awards for excellence in design. Claude has led the majority of his projects through the public process helping to balance the competitive and leisure needs of WTI's clients. His strong understanding of project programming together with his knowledge of design for operations has led to many repeat clients throughout his career. Most recently, The Northern Virginia Regional Park Authority in Virginia has requested Claude specifically as the designer of three of their aquatic projects over the last few years.

Education

Bachelor of Science, Landscape Architecture
Michigan State University

Certificates & Registrations

Landscape Architect

NSPF Certified Pool / Spa Operator (CPO)

Other Activities

American Society of Landscape Architects (ASLA)

Themed Entertainment Association (TEA)

HIGHLIGHTED PROJECT EXPERIENCE

Henderson Outdoor Swimming Pool - Lethbridge, AB
Texas Water World Gasui Bay Waterpark - Zhanijiang, China
Camp Southern Ground Aquatic Center - Fayetteville, GA
Wild Horse Creek Park - Powder Springs, GA
Spencer Aquatic Center Assessment - Spencer, IA
Fox Valley Park, Phillips Park & Splash Country - Aurora, IL
Moran Waterpark - Lombard, IL
Munster Community Pool - Munster, IL
Oak Park Outdoor Renovations - Oak Park, IL
Skokie Water Playground & Devonshire Aquatic Facility - Skokie, IL
Dundee West Side Aquatic Facility - Dundee, IL
Willow Stream Aquatic Center Renovation - Buffalo Grove, IL
Wheaton Renovation - Wheaton, IL
Family Aquatic Center - Clarksville, IN
Highland View Pool - Overland Park, KS
Franklin Aquatic Center - Franklin, KY
Rolling Hills Water Park - Ypsilanti, MI
Willow Metropark - New Boston, MI
Madison Valley Aquatic Center - McAllister, MT
Sidney Aquatic Center Design - Sidney, NE
Zorinsky Family Aquatic Center - Omaha, NE
Westchester County - Westchester, NY
Highlands Park Family Aquatic Center - Westerville, OH
Aquatic Center Facility Evaluation and Concept Planning - Madison, SD
Adventure Cove - Abilene, TX
Jacqueline A Cryan Memorial Park Pool - Sealy, TX
Leonard Park Pool Replacement - Gainesville, TX
Hidden Creek Park Aquatic Facilities - Bridgeland Development - Cypress, TX
Abilene Aquatic Center - Abilene, TX
First Colony Aquatic Center - Sugarland, TX
Creekside Family Aquatic Center - The Woodlands, TX
Surf and Swim Waterpark Expansion - Garland, TX
The Woodlands Creekside Park Village Aquatic - The Woodlands, TX
The Woodlands Township - The Woodlands, TX
Wendtwood Park - The Woodlands, TX
Russ McEwen Aquatic Center - Big Spring, TX
Cameron Run Great Waves New Attraction - Alexandria, VA
Bull Run - Centerville, VA

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Kimley-Horn | Representative Projects

Local

Modernization of Kempsville Recreation Center, Virginia Beach, VA

The new Kempsville Community Recreation Center replaces an existing recreation and community facility on the same site. The new center features a large indoor aquatic area, an outdoor play area, and a double gymnasium. The outdoor play area was designed with a tricycle track based on the unique needs of the user. Stormwater management is addressed through a large bioretention feature to mimic the natural drainage patterns. The project was also designed to support the redevelopment of the adjacent ballfields for city use. The new Kempsville Community Recreation Center has been designed to meet the standards and sustainable goals set forth by the U.S. Green Building Council LEED Green Building Rating System and is targeting LEED Silver certification. Kimley-Horn provided site planning, stormwater, and construction-phase services. The $32 million center opened in June 2017.

Boo Williams Sportsplex, Hampton, VA

Under an annual services contract for the City of Hampton, Kimley-Horn provided assistance with the site design for an approximately 130,000-square-foot Sportsplex building on approximately 10 acres. Kimley-Horn's engineering services included drainage design and calculations, determining the size and layout of a detention facility, developing an erosion and sediment control plan, traffic signal analysis and modification, providing photometric calculations and a lighting layout, preparing a landscaping plan, preparing a set of construction documents, submitting the plans through the City of Hampton's site plan review process, and preparing a stormwater pollution prevention plan.

Modernization of Bow Creek Recreation Center, Virginia Beach, VA

Kimley-Horn was selected by the City of Virginia Beach's Park and Recreation department to provide engineering services for the replacement of the existing Bow Creek Recreation Center as well as the replacement of golf course facilities that support the Bow Creek Golf Course. The project included a unique approach to stormwater management that involved the design and construction of a relocated stream and constructed wetlands that treat the onsite stormwater and a substantial area of offsite stormwater that flows through the site. Prior to development a series of small ditches and storm pipes carrying 114 acres of drainage traversed the site adjacent to and underneath parking lots. We were able to daylight this system and the result was a 1.2 acre constructed wetland with deep and shallow pools, multiple cells, several wetland benches, a fountain and two bridges that now serves as an amenity to the site and the community. The redevelopment of the recreation center required 5 pounds/year of phosphorus removal to meet City and State requirements. The resulting constructed wetland provided 40 pounds/year, providing the City with 35 pounds/year of additional removal that could be used to offset other City projects or meet the City's total maximum daily load (TMDL) goals. This project represents an example of how public development projects can integrate into their design retrofits to stormwater management infrastructure to assist the city in their Chesapeake Bay TMDL compliance with the Environmental Protection Agency (EPA). This is one of the first projects to use this approach for multiple outcomes for the City of Virginia Beach.

Norfolk PPEA: Design-Build Services for 5 Elementary Schools, VA

Kimley-Horn is part of the Ballard Construction-led team selected by Norfolk Public Schools to provide Design-Build services for five schools. They include Southside STEM Academy at Campostella; Richard Bowling Elementary School; Larchmont Elementary School; Ocean View Elementary School; and Camp Allen Elementary School. Four of the schools have been completed. Construction of the fifth—Camp Allen Elementary School—is currently underway. Kimley-Horn prepared site civil services including site plan, erosion and sediment control, stormwater grading and pond design, and water and sewer design. Additional services provided by Kimley-Horn staff include construction assistance, public involvement support, and LEED documentation.

The George P. Phenix PK-8 School, Hampton, VA

Kimley-Horn provided infrastructure planning and site design for the construction of a new pre-kindergarten through eighth grade middle/elementary school. The 200,000-square-foot, two-story school was constructed on the city's vacant 18-acre site immediately adjacent to the existing Big Bethel High School. In addition to on-site design and permitting services, turn-lane and signalization improvements were made along Big Bethel Road. Kimley-Horn also assisted with the LEED document preparation in the sustainable sites category. The project was the first LEED-certified building in the City of Hampton.

The Hunter B. Andrews PK-8 School, Hampton, VA

Kimley-Horn provided infrastructure planning and site design services to Hampton Public Schools for the construction of a new pre-kindergarten through 8th grade middle/elementary school. The approximately 200,000-square-foot school was constructed on a 21-acre former hospital site in the Kecoughtan area of Hampton. Services included surveying, infrastructure master planning, site plan development, traffic analysis, and bidding and construction phase services. In addition to the site design, Kimley-Horn assisted with the LEED document preparation in the Sustainable Sites Category. Kimley-Horn revised the school site layout after city approval was obtained to incorporate LEED specific features such as bike routes and low-emitting vehicle parking designation. Kimley-Horn also performed database and active site research to meet the site selection criteria and identify the potential contaminates previously located on the site to receive credit for redeveloping a Brownfield and utilizing a site with adequate community connectivity. The project achieved LEED Silver Certification.

911, 311, and Emergency Operations Center, Hampton, VA

This project consisted of the design of the city's combined 911, 311, and Emergency Operations Center adjacent to the city's newest fire station located off of Big Bethel Road. The two-story center is approximately 25,000 square feet and was designed to accommodate emergency personnel and key city staff in the event of emergency. The facility will be connected to the existing fire station and will be designed as a secure facility with limited public access. Kimley-Horn provided site design, landscape architecture services, and LEED certification assistance.

Kimley»Horn

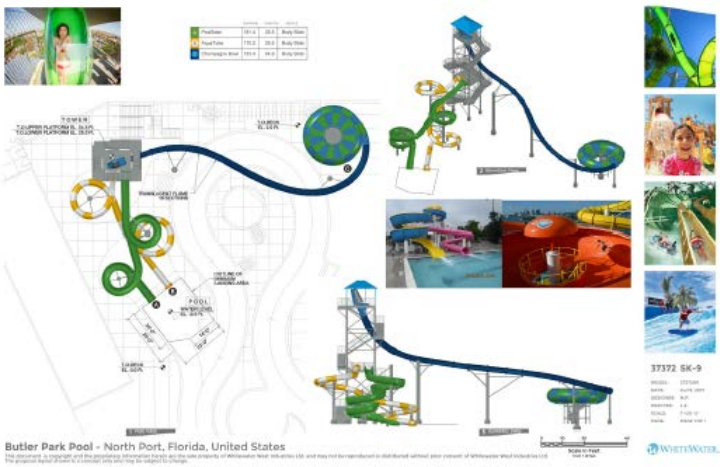
Hampton City Schools (HCS) Temporary Bus Operations Center, Hampton, VA

Under Kimley-Horn's on-call contract with the City of Hampton, the firm worked with HCS to develop a temporary school bus operations center. After performing due diligence on several potential locations for a permanent facility, Kimley-Horn helped HCS identify a site to serve the school division for the next five years. Kimley-Horn developed a striping plan for 145 bus spaces with parking for 115 passenger vehicles. The firm's staff also coordinated the design for two modular office buildings to be included on the site.

National

North Port Aquatic Facilities Master Plan and Butler Park Pool — North Port, FL

The Aquatic Facilities Master Plan for the City of North Port assessed the current conditions and needs of the community to guide future programming, site selection, renovations, and the new construction of



aquatic facilities. The design team of Kimley-Horn and Counsilman-Hunsaker collected data, gathered community input through stakeholder meetings, and held a public forum in January 2010. A "toolbox" of options presented a wide variety of solutions derived from community and political input to meet the diverse needs of North Port residents. Our team evaluated the community participation data, analyzed financial impacts, and developed conceptual alternatives. Alternatives were evaluated based on the effectiveness of response to the community's needs, likely capital costs, revenues, and expenditures. Preliminary findings were presented to the City Commission at a workshop in February 2010. Wellness programming, lesson programming, league swimming, family aquatic centers, splashpads, and waterparks were all evaluated. The study was finalized in April 2010 ($50,000 fee), and Kimley-Horn was selected to prepare plans on a $4 million Family Aquatic Center at Butler Park. In 2016, the City reactivated the project for Kimley-Horn to prepare plans for a larger family aquatic center budgeted at $10 million. Key challenges for this project included extensive meetings with the public and commissioners to develop design options, revenues, and expenses. Bids were received in May 2018, and the project will be completed in May 2019.

Citywide Aquatic Master Plan Update — Dallas, TX

In 2011, Kimley-Horn completed a Citywide Aquatics Master Plan for the City of Dallas Park and Recreation Department to assist the City in replacing its system of outdated traditional outdoor recreational pools. The plan was approved by the Park and Recreation Board and upon receipt of funding of $32 million for new aquatics facilities. Kimley-Horn was selected to prepare an update to the Citywide Aquatics Master Plan in 2015 and then contracted to design the first phase of the new Dallas Aquatic Facilities. The first three aquatic facilities will open in summer of 2018, and the second three will open in 2019. The funding to complete the total Citywide Aquatic Master Plan was approved in the November 2017 bond election.

St. Charles Aquatic Facilities — St. Charles, MO

Kimley-Horn and Counsilman-Hunsaker prepared the City of St. Charles' Aquatic Facilities Master Plan to guide programming, site selection(s), renovations, and new construction to replace their two existing outdoor aquatic facilities. The study also documented that St. Charles has transitioned from an aging community to a younger more family-focused community, requiring new state-of-art aquatic facilities.

The Aquatic Master Plan documented current needs and desires of the public with respect to the future of aquatics. To determine existing levels of service and the perceived needs of various user groups in the community, the planning team conducted individual interviews and facilitated focus groups with user groups (as requested by the City). Design programs, conceptual designs, and projections of probable development costs were prepared as part of the Master Plan. The planning team also developed a financial impact study, which included economic and operational impacts to the Parks and Recreation Department.

In 2016, the City contracted with Kimley-Horn to prepare construction documents for two new large family aquatic centers at Wapelhorst Park and Blanchette Park with a total budget of $16M. Bids were received on June 6, 2017 with five bidders, four of which were under or within the estimated costs. The lowest qualified bidder was at approximately $15.5 million, giving the City additional funds for additional park needs. Both of the $8 million family aquatic facilities were open to the public in May 2018.

Kimley»Horn

Midland Aquatic Facilities — Midland, TX

In 2013, Kimley-Horn prepared an Aquatic Facilities Plan and Presentation for Midland's Parks and Recreation Department to guide programming, renovations, and new construction to replace their existing two outdoor aquatic facilities at Doug Russell Park and Washington Park. The planning resulted in Kimley-Horn being selected to design a new $3.2 million outdoor aquatic facility at Doug Russell Park that opened to the public in June 2015 and a new $4.8 million family aquatic center opened at Washington Park in June 2017.

CAPTION: Doug Russel Park 2015 (left); Washington Park 2018 (right)

Canyon Family Aquatic Center — Canyon, TX

The City of Canyon selected Kimley-Horn to provide an Aquatics Master Plan and Feasibility Study in January 2015. After the study was completed, a bond was passed by the citizens to build a $6M Family Aquatic Center. In January of 2016, the City selected Kimley-Horn to design the Family Aquatic Center that included a 6,800-square foot leisure pool with a 250-linear foot lazy river, an open and enclosed body flume slide complex, and a heated six-lane, 25-yard lap pool along with a bathhouse / concession area and filtration building. The project was completed within available funding and opened to the public in the summer of 2017. The project was named "The Cap" (after the nearby Caprock at Palo Duro Canyon) and featured in the December 2017 issue of World Waterpark magazine. The success of the initial season has created interest in expanding the facility in 2019.

CAPTION: Featured in the World Waterpark Magazine in December 2017

Meade Park, Onesty Family Aquatic Center — Charlottesville, VA

Kimley-Horn and Counsilman-Hunsaker were selected as the lead planners and project managers for a $3.5 million outdoor aquatic complex. Features include a 2,150-square-foot bath house/operations/ filter building; 7,370 square foot zero-entry multiuse pool with three lap lanes; waterslide and water play structure; group pavilion; and related site development, including utilities, seating decks, a lazy river, lighting, landscape, and irrigation.

Onesty Family Aquatic Center opened in May 2009. Extensive neighborhood meetings took place during planning and design as an effort to include the public. A key design challenge included building a usable citywide facility in a neighborhood setting without negatively affecting the site character while placing an emphasis on tree preservation. This project involved a typical design, bid, and build approach. The project team was successful in creating an upgraded, safe, and new style family-use facility that enhances the neighborhood and townscape.

CAPTION: Winner of Aquatics International's 2010 Dream Design Award

Mark Hatchel, *PLA, ASLA, CPO*

Vice President

Mark offers more than 35 years of specialized experience in the field of public sector design for municipalities specializing in aquatics and parks and recreation. Over the past fifteen years, Mark has led Kimley-Horn's aquatic planning and design practice and, during that time, he has completed more than 50 aquatic planning and design projects throughout the United States, including CA, TX, LA, OK, GA, FL, MO, MS, VA, WVA, SC, and NC. He is nationally recognized authority in the field of family aquatic center and water park design and was the author of "Public Sector Waterpark Design" for the World Waterpark Association's 2015 Waterpark Development and Expansion Guide. His projects have won awards from the American Society of Landscape Architects, American Planning Association, United States Tennis Association, and Aquatics International. In 2008, Mark was named to the Aquatics International "Power 25" in the aquatic design industry. In 2016, Mark was honored in the World Waterpark Association Hall of Fame Awards.

Education

Texas A&M University
BS Landscape Architecture, 1978

Years of Experience

35+ years of experience in the field of public sector design for municipalities specializing in aquatics and parks and recreation
18 Years with Kimley-Horn

Certificates & Registrations

Professional Landscape Architect in TX, KS, MO

Other Activities

Council of Landscape Architectural Registration Boards (CLARB) Member

Texas Recreation and Park Society (TRAPS) Member

American Society of Landscape Architects (ASLA) Member

World Waterpark Association (WWA) Member

National Recreation and Park Association (NRPA) Member

Professional Advisory Board for the Texas A&M University Department of Landscape Architecture – Past Chairman

PROJECT EXPERIENCE

Citywide Aquatic Facilities Master Plan – Dallas, Texas
Citywide Aquatics Plan — St. Charles, MO
Wet'n Wild — Orlando, FL
Big Rock Waterpark — Stone Mountain, GA
Meade Park Family Aquatic Center — Charlottesville, VA
Chesterfield Family Aquatic Center Expansion — Chesterfield, MO
El Centro Family Aquatic Center — El Centro, CA
Frontier Pool Bartlesville Family Aquatic Center, Bartlesville, OK — Project Manager
Communitywide Pool System Study and Two Pools, Evansville, IN — Project Manager
Little Elm Strategic Park Master Plan and Visioning Process — Little Elm, Texas
Pirates Bay Waterpark — Baytown, Texas
Liberty Lagoon Waterpark — Baton Rouge, LA
Orangeburg County Waterpark — Orangeburg, SC
Aquatic Facilities Master Plan — Northport, FL
Aquatic Facilities Study — Southhaven, MS
Strategic Master Plan for Splash'n the Boro Waterpark – Statesboro, GA
Citywide Aquatic Facilities Master Pan — Alexandria, VA
Multiple Municipal Family Aquatic Centers (TX, OK, SC, NC, MO, FL, LA, VA)
Multiple International Waterpark Facilities

Kimley»Horn

Robyn Niss, *P.E., LEED AP*

Project Manager

Robyn brings 12 years of civil engineering experience to her role for this contract. She specializes in site design—from planning through construction—and has extensive experience with state and local permitting. Robyn serves municipalities throughout the area through on-call and single project contracts on a wide variety of public projects. Most recently she has worked on several new or retrofitted municipal projects including performing due diligence, performing site layout, utility and stormwater design, working with the city to obtain plan approval, and administering construction phase services including on-site review and coordination.

Education

Michigan Technologial University
BS Civil Engineering, 2006

Years of Experience

11 Years of Civil Engineering Experience
11 Years with Kimley-Horn

Certificates & Registrations

Professional Engineer in Virginia

LEED Accredited Professional

Other Activities

Hampton Roads Green Building Council

Association for Learning Environments

PROJECT EXPERIENCE

Five Norfolk Elementary Schools (PPEA) — Norfolk, VA
Boo Williams Sportsplex — Hampton, VA
Kempsville Recreation Center — Virginia Beach, VA
Bow Creek Rec Center — Virginia Beach, VA
Hampton Roads Sanitation District (HRSD) North Shore Maintenance Center, Phase IV — Newport News, VA
311/911/Emergency Operations Center — Hampton, VA
The Hunter B. Andrews School — Hampton, VA
The George P. Phenix School — Hampton, VA
Newport News Apprentice School — Newport News, VA
Buckroe Streetscape Improvements — Hampton, VA
Coliseum Central Streetscape Improvements — Hampton, VA
Courthouse Parking Lots — Hampton, VA
Phoebus Streetscape Improvements Phase V — Hampton, VA
Hampton City Schools Temporary Bus Operations Center — Hampton, VA
Bonaventure Realty – Pinnacle Apartments — Hampton, VA

Kimley»Horn

CONSULTING ENGINEERS, P.C.

SOUTHERN AREA AQUATIC AND RECREATION COMPLEX

Brandywine, Maryland

LEED-3.0-2009 HVAC and electrical system design for new 70,000 sf public recreation center. Building has leisure pool, locker rooms, outdoor spray park, gymnasium, fitness and wellness areas, aerobics room, classrooms and administration areas.

The building has numerous sustainable design features including geothermal central plant with 4-pipe heating and cooling distribution, VAV air-handling units, variable speed pumping, variable speed natatorium fans, energy recovery systems for lockers and pool areas, solar domestic hot water heating, solar pool water heating, and energy efficient T-5 lighting and daylight harvesting systems using solar tubes for additional daylight in the gymnasium. (EUI = 185 KBTU/sf/year).

Completion Date: *June 2017*
Estimated Cost entire project: *$35,000,000*
Estimated Cost of work for which firm was responsible: *$12,500,000*
Actual Cost: *TBD*

CONSULTING ENGINEERS, P.C.

Project Information
Southern Area Aquatic & Recreation Center
13601 Missouri Avenue, Brandywine, MD 20613
Project Type: New Construction (Design Build)
Project Executive: Bruce Beddow, P.E.
Project Manager: Bryan Turman
Project Engineer: Alvaro Guray.

Client Information
Maryland National Capitol Parks and Planning Commission (MD NCPPC)
Yvonne Johnson, AIA, LEED AP, Project Manager, Prince George's County Department of Parks and Recreation, 6611 Kenilworth Avenue, Riverdale, MD 20737, (301) 699-2255.

Civil Engineer Information
AMT Engineering (A. Morton Thomas & Associates)
Stephen Jerrick, Project Manager, 800 King Farm Boulevard, 4th Floor, Rockville, MD 20850, (800) 881-2545.

General Contractor Information
Coakley Williams
EJ Sandoval, Project Manager, 7475 Wisconsin Avenue, Suite 900, Bethesda, MD 20814 (301) 963-5000.

Contract Information
Original Construction Budget: $36,000,000
Original Contract Amount: $36,000,000
Final Contract Amount: $36,000,000
Original Completion Schedule: September 2019
Actual Completion Schedule: TBD
Contract Type: Design Build, Guaranteed Maximum Price

Project Description
B2E Consulting Engineers, P.C. provided mechanical, electrical, plumbing and fire protection engineering on this project. The building is designed to meet LEED-3.0 2009 certification. The 76,000 sf Recreation Center is programmed to include a 25yard competition pool and a leisure pool natatorium space with slides and spray features, a large gymnasium with two full size basket ball courts and bleacher seating, group fitness rooms, multi-purpose rooms, childrens' party room, an administrative wing and a mezzanine level fitness center with a wrap around track thru the fitness gym areas.

Technical: Packaged rooftop HVAC equipment with DX cooling, energy wheels and gas-fired heating for the dry spaces. Packaged rooftop energy recovery units with DX cooling and natural gas-fired heating for the locker rooms. Custom energy recovery corrosion resistant natatorium dehumidification units for the aquatics venue. Fabric ducts were used in the gymnasium and the fitness areas for cost savings. Aluminum ductwork was used in the natatorium to prevent corrosion. A DOAS VRF system was used to condition the administration area. An automatic temperature control system was used to control the HVAC equipment. LED light fixtures were used throughout the facility for interior and exterior parking lot site lighting. Plumbing fixtures were all low flow type, water sense fixtures.

WILLIAMS FARM RECREATION CENTER

Virginia Beach, VA

B2E Consulting Engineers, P.C. provided mechanical, electrical, plumbing and fire protection engineering on this project. The 70,000 sf Recreation Center is programmed to include a leisure pool natatorium space with slides and spray features, a large gymnasium with two full size basket ball courts and bleacher seating, a classroom wing, an administrative wing and a mezzanine level fitness center with a wrap around track thru the fitness gym areas. Park amenities include outdoor concession, skate park office and skate park.

Technical: Central chilled/hot water system with ground-loop heat exchanger instead of cooling tower provide simultaneous heating and cooling all year round. A special modular heat pump chiller is used to save floor space. Custom pool and locker room HVAC units provide energy recovery using plate frame heat exchanger to capture waste heat from the exhaust air. This heat is used to preheat the outside air in winter. The built-in mechanical refrigeration system dehumidifies the air. The hot refrigerant gas is used to reheat the supply air. When the supply air temperature is satisfied the heat is delivered to the leisure pool.

The ground-loop heat exchanger (well field) consists of 248 borings, 300 feet deep on a 19-foot spacing.

A solar DHW array is used to circulate hot water thru the solar panels and heat the domestic hot water storage tank. Thermal storage in the tank is removed simultaneously and is used to heat the leisure pool.

Completion Date: *2010*
Estimated Cost entire project: *$21,500,000*
Estimated Cost of work for which firm was responsible: *$7,400,000*

CONSULTING ENGINEERS, P.C.

Project Information

Williams Farm Recreation Center
5252 Learning Circle, VA Beach, VA 23462
Project Type: New Construction (Design Build)
Project Executive: Bruce Beddow, P.E.
Project Manager: Bryan Turman
Project Engineer: Matthew Ludwig, P.E.

Client Information

City of Virginia Beach
Kevin D. Jensen, P.E., LEED AP, Building Construction Project Manager, City of Virginia Beach Department of Public Works Facility and Design Construction Division, Municipal Center Building 21, 2408 Courthouse Drivelding Number Virginia Beach, VA 23456-9016, (757) 385-1100.

Civil Engineer Information

AECOM / URS Corp.
Gregory Millstead, Project Manager, 11832 Rock Landing Dr. Newport News, VA 23606, (757) 873-0559

General Contractor Information

W.M. Jordan Company
Gary Mulgrew, Project Manager, (757) 596-6341, Lisa Coughenour, Project Administrator, (757) 896-5126, 11010 Jefferson Ave., P.O. Box 1337, Newport News, VA 23601,

Contract Information

Original Construction Budget: $22,000,000
Original Contract Amount: $22,000,000
Final Contract Amount: $22,000,000
Original Completion Schedule: September 2013
Actual Completion Schedule: August 2013
Contract Type: Design Build, Guaranteed Maximum Price

Virtual Tour

Virtual Tour provided by the City of Virginia Beach Government and Google Maps.

LONG BRIDGE RECREATION CENTER

Arlington, VA

"LEED 2010 Silver" HVAC and Electrical system design for the 110,000 sf iconic architecture sports complex. The design includes high efficiency lighting with day lighting controls, induction lighting for high bay areas, LED site and locker room lighting, variable primary hot water boiler system, variable primary chilled water system with heat recovery chiller, 4-pipe pool units with built-in energy recovery exchangers, air-side economizer, super chlorination purge system, atrium plate smoke control systems, 65 kW micro-turbine/400 MBH heating for combined heating and power (CHP), and 72 solar thermal panels [EUI = 180 kBTU/sf. year]

***Completion Date**: to be determined*
***Estimated Cost entire project**: $78,000,000*
***Estimated Cost of work for which firm was responsible**: $25,000,000*

RECREATION CENTER PROJECT LIST

- NORTH COUNTY AQUATIC & RECREATION CENTER, MONTGOMERY COUNTY, MD
- LONG BRIDGE RECREATION CENTER, ARLINGTON, VA
- SOUTHERN AREA AQUATICS AND RECREATION CENTER, BRANDYWINE, MD
- WILLIAMS FARM RECREATION CENTER, VIRGINIA BEACH, VA
- RIGGS LA SALLE REC CENTER, WASHINGTON DC
- WAKEFIELD RECREATION CENTER, FAIRFAX, VA
- GEORGE WASHINGTON RECREATION CENTER, FAIRFAX, VA
- SPRING HILL RECREATION CENTER, FAIRFAX, VA
- OAK MARR RECREATION CENTER, FAIRFAX, VA
- LEE DISTRICT RECREATION CENTER, FAIRFAX, VA
- SOUTH RUN RECREATION CENTER, FAIRFAX, VA
- CUBB RUN RECREATION CENTER, FAIRFAX, VA
- TOWN OF WARRENTON AQUATIC & RECREATION CENTER, WARRENTON, VA
- ARMY NAVY CLUB; WASHINGTON, DC
- WESTFIELDS HEALTH & FITNESS CENTER; WESTFIELDS, VA
- THE SPORTING CLUB; VIENNA, VA
- 50 WEST OFFICE BUILDING; FITNESS CENTER; FAIRFAX, VA
- GAS LIGHT CLUB; WASHINGTON, DC
- COSMOS CLUB; WASHINGTON, DC
- CASCADES HEALTH AND FITNESS CLUB; RESTON, VA
- MENNOHAVEN FITNESS CLUB; CHAMBERSBURG, PA
- STERLING PARK COMMUNITY CENTER, STERLING, VA
- SPLASH DOWN SWIMMING CENTER, COLUMBIA, MD
- PRINCE GEORGE'S COUNTY SPORTS COMPLEX, LAUREL, MD
- FAIRLAND SPORTS & AQUATIC CENTER, LAUREL, MD
- ROLLINGCREST – CHILLUM SPLASH POOL, CHILLUM, MD
- THERESA BANK MEMORIAL AQUATIC CENTER, GLENARDEN, MD

116-N Edwards Ferry Road, NE Leesburg, VA 20176
Phone: 703-737-0400 Phone: 703-930-2058
Email: b2@b2epc.com www.b2epc.com

- GLENDALE COMMUNITY CENTER, HUNT VALLEY, MD
- HAMILTON SPLASH PARK, HYATTSVILLE, MD
- J. FRANKLIN BOURNE MEMORIAL POOL, CAPITOL HEIGHTS, MD
- LANE MANOR SPLASH PARK, HYATTSVILLE, MD
- NORTH BARNABY SPLASH PARK, OXON HILL, MD
- WELLS LINSON COMPLEX & ICE RINK, COLLEGE PARK, MD
- ALLENTOWN SPLASH, TENNIS & FITNESS PARK, FORT WASHINGTON, MD
- SHENANDOAH GOLF & COUNTRY CLUB; WARREN COUNTY, VA
- FITNESS CENTER 1010 WISCONSIN AVE., NW; WASHINGTON, DC
- OFFICERS INDOOR SWIMMING POOL FOR WALTER REED ARMY MEDICAL CENTER; WASHINGTON, DC
- LAMBERT WATER PARK; MARTINSBURG, WV
- MARILLA OUTDOOR POOL; MORGANTOWN, WV
- HERNDON COMMUNITY & AQUATIC CENTER; HERNDON, VA
- WAKEFIELD INDOOR POOL; ARLINGTON, VA
- LAMBERT PARK; MARTINSBURG, WV
- MARILLA PARK; MORGANTOWN, WV
- HERNDON COMMUNITY & AQUATIC CENTER; HERNDON, VA
- TERMAS DO ESTORIL; ESTORIL, PORTUGAL
- SCHÖNBERG RECREATION CENTER; BERLIN, GERMANY
- LICHTENBERG RECREATION CENTER; BERLIN, GERMANY
- PRÄNZLAUERBERG RECREATION CENTER; BERLIN, GERMANY
- NECKARSULM AQUATIC CENTER; NECKARSULM, GERMANY
- WESTBAD COMMUNITY CENTER; MÜNCHEN, GERMANY
- NORTHBAD COMMUNITY CENTER; MÜNCHEN, GERMANY
- PRIEN AQUATIC CENTER; PRIEN A- CHIEMSEE, SWITZERLAND
- HERTI RECREATION CENTER; ZUG, SWITZERLAND
- LÄTTIC RECREATION CENTER; BAAR, SWITZERLAND
- ZUG FITNESS PARK; ZUG, SWITZERLAND
- WINTERTUR FITNESS PARK; WINTERTUR, SWITZERLAND

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Phone: **703-737-0400** Phone: **703-930-2058**
Email: b2@b2epc.com www.b2epc.com

- ZÜRICH FITNESS PARK; ZÜRICH, SWITZERLAND
- BASEL FITNESS PARK; MÜNCHENSTEIN, SWITZERLAND
- RHEINFELDEN THERMAL POOL; REINFELDEN, SWITZERLAND
- MALLORC MARRIOTT SON ANTEM; ŁLUCMAJOR, SPAIN
- BAD RAGAZ THERMAL POOL; BAD RAGAZ, SWITZERLAND
- SCOUL THERMAL POOL; SCOUL, SWITZERLAND
- CARACALLA-THERMAL POOL; BADEN-BADEN GERMANY
- BADWALDSEE-THERMAL POOL; BAD WALDSEE, GERMANY
- SAMNAUN SPORT CENTER; SAMNAUN - COMPATSCH, SWITZERLAND

116-N Edwards Ferry Road, NE Leesburg, VA 20176
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Email: b2@b2epc.com www.b2epc.com

Bruce E. Beddow, P.E., CEM, GBD

Principal-In-Charge | Project Manager

Mr. Beddow is the overall Project Manager for b2E Consulting Engineers, P.C. He has over 35 years of experience managing more than 500 projects over the past 35 years. He has worked as an energy consultant in USA, Germany and Switzerland for many high profile projects. Mr. Beddow has extensive experience in educational as well as Aquatics and Recreation Center Buildings. He is an expert in therapy and wellness pool designs. He managed more than $360,000,000 in design and construction projects while in Europe. He was primarily responsible for mechanical and aquatic designs to maximize energy efficiency and over all project management for each project. Mr. Beddow worked for Ingenieurbüro Kannewischer a world renowned aquatics and recreation center design firm in Switzerland. His hands on design-experience in Europe made him one of the most knowledgeable MEP wellness aquatic facility designers in the country. His publications on MEP & pool water treatment design are widely respected in the US, Germany, & Switzerland.

Education

Virginia Tech
B.S. Materials Engineering, 1983

Professional Engineer, 1990
VA License #21238 MD, WV, DC, PA, TX

Years of Experience

35 Years in the the MEP Industry
25 Years with b2E

Training & Continuing Education

AEE – Certified Green Building Engineer

Recognitions

Handley High School, Virginia School Boards Association Platinum Design Award for Renovation 2008

Minnie Howard School, Virginia School Board Association Green Building First Place for 2009

James Polk ES Virginia Sustainable Building Network Green Building Honorable Mention for 2010.

Williams Farm Recreation Center, VA Beach LEED Silver

James Polk ES Virginia Educational Facility Planners Sustainable Modernization and Additions Innovation Bronze Award 2013.

James Polk ES USGBC LEED Gold

PROJECT EXPERIENCE

Silver Spring Aquatic & Sports Recreation Center – Montgomery County, MD
Long Bridge Recreation Center – Arlington, VA
Southern Area Aquatics and Recreation Center – Brandywine, MD
Williams Farm Recreation Center – Virginia Beach, VA
Riggs La Salle Recreation Center – Washington DC
Wakefield Recreation Center – Fairfax, VA
George Washington Recreation Center – Fairfax, VA
Spring Hill Recreation Center – Fairfax, VA
Oak Marr Recreation Center – Fairfax, VA
Lee District Recreation Center – Fairfax, VA
South Run Recreation Center – Fairfax, VA
Cubb Run Recreation Center – Fairfax, VA
Town of Warrenton Aquatic & Recreation Center – Warrenton, VA
Army Navy Club – Washington, DC
Westfield's Health & Fitness Center – Westfield's, VA
The Sporting Club – Vienna, VA
50 West Office Building; Fitness Center – Fairfax, VA
Gas Light Club – Washington, DC
Cosmos Club – Washington, DC
Cascades Health and Fitness Club – Reston, VA
Mennohaven Fitness Club – Chambersburg, PA
Sterling Park Community Center – Sterling, VA
Splash Down Swimming Center – Columbia, MD
Shenandoah Golf & Country Club – Warren County, VA
Fitness Center 1010 Wisconsin Ave., NW – Washington, DC
Officers Indoor Swim Pool Walter Reed Army Medical Center – Washington, DC
Lambert Water Park – Martinsburg, WV
Marilla Outdoor Pool – Morgantown, WV
Herndon Community & Aquatic Center – Herndon, VA
Wakefield Indoor Pool – Arlington, VA
Schönberg Recreation Center – Berlin, Germany
Lichtenberg Recreation Center – Berlin, Germany
Pränzlauerberg Recreation Center -– Berlin, Germany
Neckarsulm Aquatic Center – Neckarsulm, Germany

Michael Kennedy, PE, CEM, LEED AP

Senior Electrical Engineer

Mr. Kennedy, chief electrical engineer is responsible for developing energy savings concept designs, conducting energy audit surveys, developing contract documents, reviewing final drawing and equipment submittals, responding to RFI's and project coordination with customers, design consultants, construction project managers, subcontractors and commissioning agents.

Design emphasis is on electrical power distribution engineering, substation deign, automated DDC/EMCS control system design, photovoltaic array design power factor correction calculations, wind turbine integration, variable frequency drive installation and HVAC air distribution design aspects of the projects. Mr. Kennedy develops energy savings sequence of operations strategies, and DDC point lists for HVAC equipment to be implemented in EMS.

PROJECT EXPERIENCE

Riggs LaSalle Recreation Center – Washington DC
LEED Gold, Low Energy Building
John Champe High School – Loudoun County VA
LEED Silver Design
Catherine Watkins Elementary School – Washington DC
LEED Gold, Historic
Warrenton Aquatic Center – Warrenton VA
Custom Heat Recovery
Occoquan Elementary School, Woodbridge – VA
VRF Low Energy Building
Jefferson Houston Elementary School – Alexandria VA
LEED Gold, Historic
Fred Lynn Middle School – Prince William County Public Schools
EMS Upgrade
Silver Spring Aquatic & Sports Recreation Center – Montgomery County, MD
Long Bridge Recreation Center – Arlington, VA
Southern Area Aquatics and Recreation Center – Brandywine, MD
Williams Farm Recreation Center – Virginia Beach, VA

Education

George Mason University
B.S. Electrical Engineering, 2004

Years of Experience

16 Years in the the MEP Industry
8 Years with b2E

Training & Continuing Education

Professional Engineers License in Commonwealth of VA (since 2009), and MD

Recognitions

Certified Energy Manager 2007

LEED AP Certified 2008

Williams Farm Recreation Center VA Beach, USGBC LEED Silver 2010

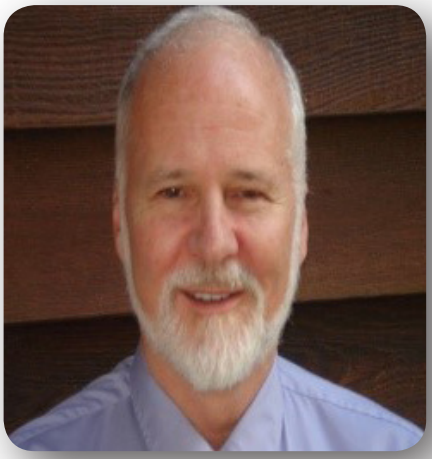
MCPS Paint Branch High School Burtonsville MD, USGBC LEED Gold 2011

James Polk ES, Alexandria VA LEED Gold 2015

Jefferson Houston K8 School, Alexandria VA LEED Gold 2015

Virginia School Board Association (VSBA) Green Building First Place for 2009, Minnie Howard School

Virginia Sustainable Building Network (VSBN) Green Building Honorable Mention for 2010



Rick Meetre, PE, CEM, CBCP

Senior Mechanical Engineer

Mr. Meetre has over 35 years of senior-level experience in the HVAC building automation contols industry focusing on engineering, design, programming, onsite system startup, commissioning, troubleshooting, and training. Typical customer faciities include health care, educational, commercial, institutional, and local government installations. Projects include federal government installations in the U.S. and abroad. He is an expert in writing HVAC sequences which are simple and organized.

Mr. Meetre has hands on experience with building energy management system conversions from proprietory to open protocol software solutions. He has written the HVAC system software and sequence of operation for hundreds of buildings including; Maryland National Capital Parks and Planning Council, Fairfax County, DC Department of General Services, Montgomery County, Prince Georges County, Loudoun County, as well as the US General Services Administration (GSA) and Department of Justice and the State Department.

Education

University of Maryland
B.A.

Years of Experience

35 Years in the the MEP Industry
12 Years with b2E

Training & Continuing Education

Additional 45 credits in Engineering, Chemistry, Physics, Mathematics, Electronics, Programming & Data Processing Systems

Certificates & Registrations

Registered Professional Engineer, MD

Member of Association of Energy Engineers

Certified Energy Manager. Certified Building Commissioning Professional Current "Secret" Level clearance

Pneumatic and digital electronic controls software engineer for Invensys Pritchard for 30 years

Expert writer for sequence of operation that optimizes energy efficiency

Expert diagnostic trouble shooting engineer to fix DDC control systems

PROJECT EXPERIENCE

West County Recreation Center – Fairfax, VA
Blair High School – Montgomery County, VA
Department of Justice, Bureau of Prisons Chiller Plant
Williams Farm Recreation Center (LEED Silver) – Virginia Beach, VA
Geothermal
Minnie Howard Ninth Grade Center – Alexandria City Public Schools
LEED EB, Geothermal
J. Michael Lunsford Middle School – Loudoun County Public Schools
LEED Silver Design
Jefferson Houston Elementary School – Alexandria City Public Schools
LEED Gold
Falmouth Elementary School
Stafford County Public Schools
John Handley High School
Historic, Low Energy
Winchester Public Schools
Savoy Elementary – School DC Public Schools
LEED Gold
James Polk Elementary School – Alexandria City Public Schools
LEED Gold, Geothermal
Long Bridge Recreation Center –Arlington County, VA
LEED Silver
Swiss Embassy – Washington, DC
Catherine Watkins Elementary School – Washington DC
LEED Gold, Historic
Riggs LaSalle Recreation Center –Washington DC
LEED Gold, Low Energy Building
John Champe High School – Loudoun County VA
LEED Silver, Design

Bryan E. Turman, CPD, CIPE

Senior Plumbing Engineer

Mr. Turman has over 42 years experience as a plumbing and HVAC piping system designer for a variety of Commercial and Government projects. Mr. Turman is the lead engineer for our plumbing department. Mr. Turman has extensive experience with new and renovation building projects. He is a detailer responsible for piping systems and piping coordination of mechanical, and plumbing systems.He has extensive experience with food science labs, science labs, dental labs, as well as applied technology laboratories for he auto and construction industries. He has also worked on waste water treatment facilities, as well as in hospital gas and clean RO water systems. He is currently working at Dulles International Airport to redesign the LSG In-flight kitchens.

As Plumbing Engineer, Mr. Turman has designed hundreds of buildings. He specializes in educational buildings which include water service, fire service, fire pumps, domestic water distribution, solar hot water generation, kitchens, laboratories, tech ed systems, family sciences, gymnasiums and locker rooms, art rooms, kindergarten, and other systems.

Education

NOVA College, AET Mechanical Engineering

Years of Experience

42 Years in the the MEP Industry
25 Years with b2E

Training & Continuing Education

1190 C.I.P.E./CPD#9774

Recognitions

Cub Run Recreation Center, Aquatics Int'l Magazine, Best Overall Aquatics Award 2007

Handley High School, Virginia School Boards Association Platinum Design Award for Renovation 2008

Minnie Howard School, Virginia School Board Association Green Building First Place for 2009

James Polk ES Virginia Sustainable Building Network Green Building Honorable Mention for 2010

Williams Farm Recreation Center, VA Beach LEED Silver

James Polk ES Virginia Educational Facility Planners Sustainable Modernization and Additions Innovation Bronze Award 2013

James Polk ES USGBC LEED Gold

PROJECT EXPERIENCE

Catherine Watkins Elementary School – DC Public Schools
LEED Gold
Savoy Elementary School – DC Public Schools
LEED Gold
Riggs LaSalle Recreation Center – DC Parks and Recreation
LEED Gold
Monroe Advanced Technology Center – Loudoun County Public Schools
LEED Gold
Carver Center – Loudoun County, VA
Historic Renovation
Loudoun County Courts Complex – Loudoun County, VA
Renovation
Loudoun County School Board Adm. Bldg. – Loudoun County Public Schools
LEED Certified
J. Michael Lunsford Middle School – Loudoun County Public Schools
LEED Silver
James Polk Elementary School – Alexandria City Public Schools
LEED Gold
John Handley High School – Winchester Public Schools
Historic
Williams Farm Recreation Center – City of Virginia Beach, VA
LEED Silver
J. Michael Lunsford Middle School – Loudoun County Public Schools
LEED Silver
John Champe High School – Loudoun County Public Schools
LEED Silver
George Washington Middle School – Alexandria City Public Schools
Historic Renovation
Minnie Howard School – Alexandria City Public Schools
(LEED EB)
Paint Branch High School – Montgomery County Public Schools
LEED Gold

Galen Staengl, P.E., LEED AP BD+C, CPHC

Professional Energy Engineer

Galen Staengl designs cutting edge energy efficient heating ventilation and air conditioning (HVAC) systems for green building projects. His diverse background includes work in the chemical process industries, the pharmaceutical industry, and the building construction industry. Throughout his career Galen has worked to bring energy efficient and sustainable design principles into his projects for award winning schools, institutional buildings, and office buildings. He has provided design and energy analysis for many buildings intended for LEED certification at the Platinum and Gold levels.

Galen is responsible to run energy models and develop LEED documentation for our projects. When the Owner is not concerned about LEED certification, Galen provides the documentation for the Owner's use to show that the buildings are well designed and energy and water efficient. He is proficient in Engineering Economics using various tools to calculate life-cycle energy and operating costs and comparing the results between systems. We find this especially useful at the beginning of a project during schematic design to assist the Architect in selecting the correct wall type and glazing characteristics to maximize building envelope performance.

Galen is an accomplished energy modeler using Design Builder, DOE2, VisualDOE, eQuest and EnergyPro software. This modeling experience includes LEED compliance documentation as well as analysis of specific strategies for energy savings and life cycle costs. He has also provided energy consulting and commissioning services for a wide variety of systems and building types.

Education

University of Virginia
B.S., Chemical Engineering

Years of Experience

30 Years in the the MEP Industry
8 Years with b2E

Training & Continuing Education

Professional Engineer – VA, NC, CA, TN, D.C., KS, MO, MD, PA

James River GBC – Founding Member (Charlottesville Branch)

ASHRAE – Associate Member USGBC

VSBN

Recognitions

2005 VSBN-Best Green Designer

2010 VSBN-Best Commercial Project (Dovetail Construction)

2012 Earthcraft Best Multi Family New Construction Project

Governor's Housing Award

JRGBC Honor Award (Free Union County School)

JRGBC Merit Award (Ernie Morgan Environmental Action Center)

PROJECT EXPERIENCE

Jefferson Houston PreK-8 School – Alexandria, VA
Hickory Hall Emory & Henry College – Emory, VA
Long Bridge Recreation Center – Arlington VA
(Leed Gold)
The Summit – Mt. Hope, WV
Blacksburg Hillel Center – Blacksburg, VA
Claude Moore Education Complex – Roanoke, VA
LEED Gold
Dovetail Construction Offices – Richmond VA
LEED Platinum
Eastern Mennonite University – Harrisonburg, VA
LEED Gold
The Crossings at 4th & Preston – Charlottesville, VA
Museum of Oakland – Oakland, CA
LEED Silver
Peabody School Classroom Wing – Charlottesville, VA
LEED Certified
James K. Polk Elementary School – Alexandria VA
LEED Gold, Geothermal
Catherine Watkins Elementary School – Washington DC
LEED Gold, Historic
Southern Area Aquatics and Rec Center – Brandywine, MD
VRF, Low Energy Building
John Handley High School – Winchester City Public Schools
Historic, Low Energy
Minnie Howard School – Alexandria VA
LEED EB, Geothermal

Speight, Marshall & Francis, P.C.'s Experience & Key Personnel

Bow Creek Recreation Center, 3427 Clubhouse Road, Virginia Beach, Virginia

Served as Structural Engineer of Record and Special Inspector for this new $21.8M, 67,700 square foot LEED Certified recreation center for the City of Virginia Beach-recipient of a 2017 Honor Award from the City of Virginia Beach Planning Commission. Designed using REVIT BIM software, the new two-story facility features an indoor pool with play components, a diving area and 25-yard lap lanes, a two-court indoor gymnasium, fitness center, weight room, meeting spaces/multipurpose spaces with two operable partitions, administrative offices, lobby, youth development classrooms with a dedicated playground, as well as locker rooms and family changing areas. The fitness/dance studio and weight room are located on the second level mezzanine. The new building offers expansive views of the golf course from many of the rooms. Special design considerations included an interior pool, site drainage, Chesapeake Bay Preservation Act impacts and LEED Certification.

Bow Creek Recreation Center

Achieving LEED certification in October 2015, the new recreation center is the first city building to include LED lighting both indoors and outdoors. It also features a heating and cooling system that utilizes a geothermal well field as a heat source (in heating mode) or a heat sink (in cooling mode). This type of system utilizes the moderate temperatures below ground to boost efficiency and reduce operational costs by using the earth as a heat source in the winter and dissipating heat into the ground in the summer. The storm water management system handles on-site drainage and has the added benefit of improving drainage efficiency in the surrounding neighborhood as well. New storm water ponds on the site were designed to be landscaped water features with meandering walking paths around the perimeter and an outdoor deck overlooking the water and the golf course.

The project also included a new golf pro shop/snack bar (3,400 square feet) with nearby golf cart storage facility for 60 carts (4,000 square feet) and adjacent parking was constructed in advance of demolition to keep the golf course operational through the construction period. The golf cart storage facility is a pre-engineered metal building system with rigid frames to provide a fully open work and storage spaces. An exterior cart wash pad is located adjacent to the building and exterior walls are clad with metal panels with a perimeter masonry veneer base wall. The complex opened to the public March 2015.

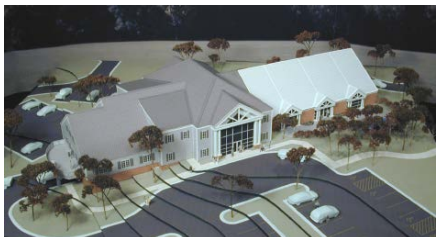
Kempsville Recreation Center, Virginia Beach, Virginia

The City of Virginia Beach's 87,116 sf single-level facility features a lap and leisure pool, outdoor spray ground, elevated walking track, two court gymnasium, fitness center, multi-purpose spaces, and a child care facility along with locker rooms and other support space. Designed to achieve LEED Silver, the project includes a geothermal HVAC system. Completed in 2017.

Kempsville Recreation Center

King's Creek Aquatic Center, Williamsburg, Virginia

Our firm provided structural design services and Special Inspection services for this new 28,600 sf Aquatic Center for King's Creek Timeshare Condominiums. The center is designed for tenants with a variety of recreational interests. Beyond the main lobby there is a 25-meter indoor pool as well as indoor and outdoor spas. The outdoor spas are situated on two sides of the sunning deck that surrounds the natatorium. There are exercise rooms for aerobic and weight training activities and restroom and shower facilities for men and women.



King's Creek Aquatic Center

Luter Family YMCA Expansion, Smithfield, Virginia

Our firm served as the Structural Engineer of Record and Special Inspector for this 16,000 square foot single story recreation center addition. Areas include a gymnasium, fitness/wellness center, natatorium, childcare center, lockers, administrative/offices, and storage space.

Luter Family YMCA Expansion

Victory Family YMCA, York County, Virginia

Our firm served as the Structural Engineer of Record for this single-story, 46,000 square foot recreation center. Areas include a gymnasium, wellness center, natatorium, childcare center, lockers, administrative/offices, and storage space. Awarded an Award of Merit from Hampton Roads Association for Commercial Real Estate for Best Recreational/Entertainment project in 2003. Cost was $5.5 million.

Victory YMCA

R.F. Wilkinson YMCA, Williamsburg, Virginia

Served as Structural Engineer of Record and Special Inspector for this new 44,763 square foot, one-story brick, concrete and steel recreation center. Areas include a gymnasium, wellness center for Sentara employees, natatorium featuring a 6-lane 25-meter/25-yard lap pool and a recreational pool with slide and water features, aerobic room, community room, childcare center, lockers, administrative/offices, and storage space.

R.F. Wilkinson YMCA

Recreation Center, Wyndham (formerly Fairfield) Williamsburg at Governor's Green, Williamsburg, Virginia

We were the Structural Engineer of Record and Special Inspector for this new 16,806 square foot recreation center at Patriot's Place in Williamsburg. The recreation center serves the timeshare condominium complex. The facility consists of natatorium with a 25-meter pool, sauna, tanning and massage rooms, whirlpool spa, exercise rooms, locker rooms, game arcade area, Kids Club room, multi-purpose recreation room, computer/library room, and a General Store.

Recreation Center, Wyndham (formerly Fairfield) Smoky Mountains, Sevierville, Tennessee

We were the Structural Engineer of Record for this new 15,000 square foot recreation center. The two-story recreation center serves the timeshare condominium complex. The facility consists of an indoor pool, two outdoor pools, several spas, fitness center, sauna, locker rooms, banquet rooms, kitchen, game room, and offices.

SAS Institute Gymnasium/Wellness Center & Natatorium, Cary, North Carolina

The facility is a new 9,100 square foot one story structure that provides the employees of a computer software company with a convenient on-site space to exercise. The new SAS Institute Natatorium is an indoor pool facility of approximately 17,000 square feet that will also be utilized by the employees. The building is comprised of a 10 lane, 25-yard, day lit recreational pool and deck area as well as supporting locker/shower areas and office areas.

SAS Institute Gymnasium

SPEIGHT, MARSHALL & FRANCIS, P.C.: HAMPTON PROJECTS

- Old Point National Bank Corporate Headquarters, Hampton, VA
- AMSEC Renovations at Net Center, Hampton, VA
- Renovations to Building 96 - Fort Monroe, Hampton, VA
- Bayport Credit Union, Hampton, VA
- Whealton Substation, Hampton, VA
- Alteration/Renovation for TowneBank - Hampton Banking Center, Hampton, VA
- New Mount Olive Christian Academy, Hampton, VA
- Peninsula Town Center Apartments at CineBistro, Hampton, VA
- New Dormitory, Hampton University, Hampton, VA
- Stone Manor Floor Remediation - Hampton University, Hampton, VA
- Mooring Hall Assessment and Repairs, Hampton University, Hampton, VA
- Equestrian Center-General Contractor Assistance, Hampton University, Hampton, VA
- Hampton University School of Nursing 10th Floor Expansion-Floor Framing Analysis & Details for Folding Partition, Virginia Beach, VA
- Dupont Hall Roof Framing Repair Drawings, Hampton University, Hampton, VA
- Welcome Wall, Hampton University, Hampton, VA
- 423 East Queen Street, Hampton University, Structural Evaluation & Repair, Hampton, VA
- Virginia Cleveland Hall Ceiling Failure Investigation, Hampton University, Hampton, VA
- DuPont Hall Roof Framing Investigation, Hampton University, Hampton, VA
- Pierce Hall Floor Investigation, Hampton University, Hampton, VA
- Katherine House Repairs, Hampton University, Hampton, VA
- Hampton University, Armstrong Stadium Veneer Masonry Cracking, Hampton, VA
- Proton Therapy Institute-Various Structural Engineering for General Contractor, Hampton University, Hampton, VA
- Holly Tree Inn Dormitory, First Floor Framing Inspection, Hampton University, Hampton, VA
- Continuing Education Center Structural Evaluation & Report, Hampton University, Hampton, VA
- McGrew Towers-Life Line Anchors and Swing Stage Shop Drawings, Hampton University, Hampton, VA
- McGrew Towers, Window Replacement Phase 2, Window Replacement, Hampton University, VA
- McGrew Towers, Metal Stud and Brick Veneer Tie Repair, Hampton University, Hampton, VA
- Floor Joist Investigation and Repair, Hampton University, Hampton, VA
- Winona Hall Slab-on-Grade Concrete Ramp Detailing, Hampton University, Hampton, VA
- Structural Evaluation & Repair of the Hampton University President's Mansion, Hampton, VA
- Hampton University - Holland Hall Locker Room Addition, Hampton, VA
- Student Dining Center, Drawings Coordination, Hampton University, Hampton, VA
- Fleet Services Maintenance Facility - Mezzanine Evaluation, Hampton, VA
- Francis Asbury Elementary School Connector Addition, Hampton, VA
- Kecoughtan High School Auditorium Renovation, Hampton, VA
- Kecoughtan High School HVAC Addition, Hampton, VA
- Jefferson Davis Middle School Auditorium Renovation, Hampton, VA
- Hampton High School Auditorium Renovation, Hampton, VA
- Syms Middle School Auditorium Renovation, Hampton, VA
- Eaton Middle School Auditorium Renovation, Hampton, VA
- Lindsay Middle School Auditorium Renovation, Hampton, VA
- Spratley Middle School Auditorium Renovation, Hampton, VA
- Repairs and Addition to Amory Seafood, 101 S. King Street, Hampton, VA
- I CAN Daycare, Hampton, VA

Daniel W. Speight, P.E.

President | Principal Structural Engineer of Record

Mr. Speight's varied background in structural engineering includes pools, stadiums, recreation centers, and many projects in the City of Hampton. His extensive experience has prepared him to meet the scope of needs for the proposed project.

As Structural Engineer of Record, Mr. Speight will oversee the project and incorporate his three decades of structural engineering expertise to complete full reviews of the structural drawings prior to signing and sealing. For this contract he will conduct structural evaluations, code compliance investigations, perform subsequent research, and write reports to convey his findings and recommendations for repair. He will also perform project management, preliminary design, final design, construction document preparation, specifications, preparation of cost estimates, assistance in prebid and preconstruction meetings, bid review and recommendations, shop drawing review, and construction administration including inspection during construction. He is also responsible for supervision and quality control for production of construction documents and to assure quality control is maintained.

He prides himself on responding quickly to client requests and being easily reached, whether in the office, by mobile device, by email, or at home. Time and time again, Mr. Speight has demonstrated his ability to provide rapid response on projects requiring quick turn-around times which has fostered trust and confidence with clients.

HIGHLIGHTED PROJECT EXPERIENCE

Bow Creek Recreation Center – Virginia Beach, VA
Kempsville Recreation Center – Virginia Beach, VA
King's Creek Aquatic Center – Williamsburg, VA
Luter Family YMCA Expansion – Smithfield, VA
Victory Family YMCA – York County, VA
R.F. Wilkinson YMCA – Williamsburg, VA
SAS Institute Gymnasium/Wellness Center & Natatorium – Cary, NC
Kellam High School – Virginia Beach, VA

Education

Old Dominion University
B.S. Civil Engineering - Structural Engineering Concentration, 1986

Years of Experience

31 Years in the Industry
23 Years with SMF

PROFESSIONAL ACTIVITIES & AFFILIATIONS

Virginia Beach Education Foundation Board Member

American Institute of Steel Construction (AISC)

International Code Council (ICC)

Instructor of the General Structures & Lateral Forces course for the ARE (Architectural Registration Examination)

Consultant & Instructor for Southeast Concrete Masonry Association

SPEIGHT · MARSHALL · FRANCIS
RESTRUCTURING THE NORM

Jonathan Walesczyk, P.E.

Principal Structural Engineer-in-Charge

Mr. Walesczyk will serve as our firm's main point of contact and Structural Engineer-in-Charge for the proposed project. He gained a varied background in structural design of relevant projects while working with his previous employer, McPherson & Associates. With our firm since 2000, his design experience has been enhanced with pools, stadiums, recreation centers, and many projects in the City of Hampton.

Well-acquainted with federal, state, and local building code requirements, he will supervise every phase of the project from schematic design to final structural design documents to ensure strict engineering standards are followed and will complete Quality Assurance/Quality Control reviews throughout the process. He will coordinate efforts among the project team including attending required meetings to stay on top of all facets of the project. For this contract he will also construction document preparation, specifications, preparation of cost estimates, assistance in prebid and preconstruction meetings, bid review and recommendations, shop drawing review, and construction administration including inspection during construction.

Mr. Walesczyk has become well-liked by our clients for his quick response time and his "can do" attitude. He has established solid working relationships with our clients over the years and has a reputation for practicality and creativity.

Education

Old Dominion University
B.S. Engineering Technology - Civil, Structural & Construction Management Emphasis, 1997

Years of Experience

20 Years in the Industry
17 Years with SMF

PROFESSIONAL ACTIVITIES & AFFILIATIONS

American Institute of Steel Construction (AISC)

HIGHLIGHTED PROJECT EXPERIENCE

Bow Creek Recreation Center – Virginia Beach, VA
Kempsville Recreation Center – Virginia Beach, VA
King's Creek Aquatic Center – Williamsburg, VA
Luter Family YMCA Expansion – Smithfield, VA
Victory Family YMCA – York County, VA
R.F. Wilkinson YMCA, Williamsburg, VA
Recreation Center, Wyndham (formerly Fairfield) Williamsburg at Governor's Green – Williamsburg, VA
Recreation Center, Wyndham (formerly Fairfield) Smoky Mountains – Sevierville, TN
Kellam High School – Virginia Beach, VA
The Main-Hilton Hotel and Conference Center – Norfolk, VA

SPEIGHT • MARSHALL • FRANCIS
RESTRUCTURING THE NORM

Engineered Solutions for our Built World

TAM CONSULTANTS

At TAM Consultants, our enclosure services includes both pre-construction planning and design services as well as construction quality assurance support. We provide these services for both simple and highly complex building types and uses for all types of construction. For these complex projects with many team members we are tasked with providing opinions regarding building and construction detailing to assist the team in producing better documents, better buildings that are more efficient and more durable. The following are a few examples of some of the more complex projects and building types where we have provided services that pertain to the building envelope:

Project Type: Museums

The Dewitt Wallace Decorative Arts Museum, *Colonial Williamsburg*
The Abby Aldrich Rockefeller Folk Art Museum, *Colonial Williamsburg*
The Collections Museum Artifacts Storage Facility, *Colonial Williamsburg*

- Colonial Williamsburg, a living museum, has retained TAM Consultants to provide consulting services for many of the foundation's most important facilities. TAM Consultants provides condition assessments, reporting, roof and enclosure consulting, structural services, construction documents, and construction administration support through the course of these projects.

Project Type: Historic Restoration

The Virginia Building, *Norfolk, Virginia*—Enclosure consultant to assess building envelope.
The Goodwin Building, *Colonial Williamsburg*

- TAM Consultants was retained by Colonial Williamsburg to identify several areas of exploratory investigation on portions of the building in order to determine possible cause and conditions of various elements including flashing, structural steel and backup materials in the exterior walls. TAM Consultants also provided plans and specifications depicting areas of the building requiring masonry repointing, structural steel restoration, brick repair or relief as required.

Project Type: University Library

Cabell Library, *Virginia Commonwealth University*

- TAM Consultants performed a review of architectural design documentation related to the enclosure air barrier systems of the library. The review included air barrier systems as TAM provided construction phase air barrier audits and written field reports.

Project Type: Natatoriums

James City County Rec Center Natatorium, *James City County Virginia*
The Ray KROC Natatorium and Recreation Center, *Norfolk Virginia*
Williams Farm Natatorium and Recreation Center, *Virginia Beach, Virginia*
The Bill Doig Natatorium, Health Club and Spa, *Williamsburg, Virginia*
Rappahannock Westminster-Canterbury, Art & Wellness Center, *Lancaster, Virginia*
Great Wolf Lodge, *Williamsburg, Virginia*

- TAM Consultants provided the teams with enclosure reviews and construction support services for new and repairs at these natatoriums.

Project Type: New Hospitals

Riverside Doctors' Hospital, *James City County, Virginia*
Riverside Shore Memorial Hospital, *Onancock, Virginia*
Martha Jefferson Hospital, *Charlottesville, Virginia*
VCU Community Memorial Hospital, *South Hill, Virginia*

- TAM Consultants provided the teams with enclosure reviews and construction support services for these new hospitals.

Project Type: Enclosure Reviews

Bluegreen Patrick Henry Inn, *Williamsburg, Virginia*
Hampton University-James Hall, *Hampton, Virginia*
Eastern Virginia Medical School– Lewis and James Halls, *Norfolk, Virginia*

757.564.4434 | info@tamconsultants.com | www.tamconsultants.com

Timothy A. Mills, P.E., LEED AP, CIT II

President

Mr. Mills founded TAM Consultants, a professional services firm, in 2002 specializing in providing solutions for the constructed environment including structural and forensic engineering and design, building enclosure consulting, property inspections, project management and owner agent services. His experience spans over 30 years covering a wide range of public and private projects of varying types and sizes. Project types include commercial, single and multi-family residential, historical, light and medium duty industrial and manufacturing facilities, warehouse and distribution, parks and recreation, waste-water, fire stations, laboratory, parking, "green buildings," retirement, and medical and hospital facilities. He has filled the role of designer, inspector, project manager, technical specialist, commercial roofing specialist, asbestos and lead specialist, construction manager, general contractor and owner's project representative.

HIGHLIGHTED PROJECT EXPERIENCE

Williamsburg Landing Fitness Center – Williamsburg, VA
James City County Recreation Center – Natatorium, Williamsburg, VA
Salvation Army Kroc Center Hampton Roads – Norfolk, VA
Williams Farm Recreation Center – Virginia Beach, VA
Colonial Crossing Resort Natatorium – Williamsburg, VA
City Center Property Condition Assessments for 9 buildings – Newport News, VA
Union Mission Building – Norfolk, VA
Rappahannock Westminster Canterbury Art & Wellness Center – Rappahannock, VA
Brandermill Woods Clubhouse – Midlothian, VA

Education

Brooklyn Polytechnic Institute of New York
B.S. Engineering, 1983

Years of Experience

35 Years in Forensic and Structural Engineering
16 Years with TAM

Certificates and Registrations

Professional Engineer in Virginia, West Virginia, North Carolina, South Carolina

Certified Infrared Thermographer, Level II

LEED Accredited Professional, 2009 to present

Other Activities

Air Barrier Association of America, Member and Certified Field Auditor

American Council of Engineering Companies, Member

American Institute of Steel Construction, Member

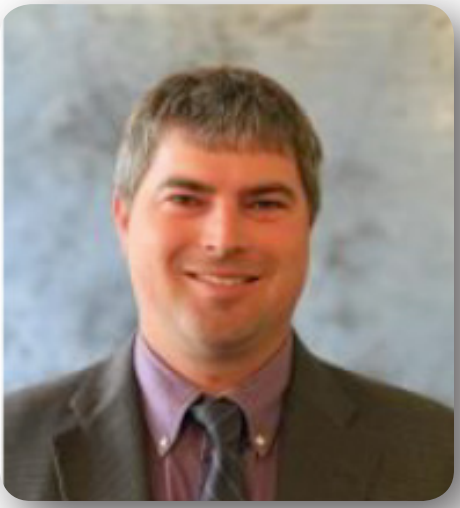
James City County Board of Building Adjustments and Appeals, 2014 to present

Roof Consultants Institute, Member

National Roofing Contractors Association, Member

Williamsburg Christian Retreat Center, Board of Directors

TAM CONSULTANTS



Jeremy Seltzer

Senior Designer | Project Manager

Mr. Seltzer graduated third in his class with the distinction of magna cum laude, from Virginia Tech with a Bachelor of Architecture in 2002. During his career he has worked as a project manager and designer for two multi-discipline architecture and design firms. Since coming to TAM Mr. Seltzer has become a certified field auditor for the Air Barrier Association of America and has served in the role of Designer, Inspector, Project Manager, Technical Specialist, Commercial Roofing Consultant and Inspector and Construction Administration. His experience covers both public and private projects which include commercial, residential, historical, civic, restaurant, parks and recreation, amusement parks, green buildings, universities, fire stations, public schools, retirement, medical and hospital facilities.

Education

Virginia Tech
Bachelor of Architecture, 2002

Years of Experience

16 Years in Forensic and Structural Engineering
5 Years with TAM

Certificates and Registrations

Associate AIA

Air Barrier Association of America, Member and Certified Field Auditor

HIGHLIGHTED PROJECT EXPERIENCE

Williamsburg Landing Fitness Center – Williamsburg, VA
James City County Recreation Center – Natatorium, Williamsburg, VA
Salvation Army Kroc Center Hampton Roads – Norfolk, VA
Williams Farm Recreation Center – Virginia Beach, VA
Colonial Crossing Resort Natatorium – Williamsburg, VA
Riverside Shore Hospital – Onancock, VA
CHKD South Gate Commons – Norfolk, VA
Howard University Interdisciplinary Research Building – Washington, DC
Virginia State University Multi-Purpose Center – Petersburg, VA
Rappahannock Westminster Canterbury Art & Wellness Center – Rappahannock, VA
Bow Creek Recreation Center – Virginia Beach, VA
Kempsville Recreation Center – Virginia Beach, VA
Brandermill Woods Clubhouse – Midlothian, VA

TAM CONSULTANTS

The Miles Agency's Experience & Key Personnel

City of Virginia Beach, VA
Provided graphics, website design and content, branding and strategic communications services for the city's Annual Services Contract Comprehensive Sea Level Rise/Recurrent Flooding Analysis. Created the project logo and tagline as well as reported to the city's internal sea level rise working group.

City of Portsmouth, VA
Provided strategic community outreach and public relations as the city updated its Comprehensive Plan. Assisted with branding, stakeholder management and media relations.Drafted and distributed press releases, scheduled media interviews and attended several community events to raise awareness and encourage city input both online and at public workshops.

City of Chesapeake, VA
22nd Street Bridge Replacement and Design. Provided stakeholder management and public meeting support for this A & E project. Reached more than 100 citizens with multiple public meetings and outreach.

City of Norfolk, VA
Facilitated well-attended public meetings for the PPEA school construction program to build 5 schools with one contract to save money. We successfully conducted 10 public meetings within 45 days that entailed architectural designs, environmental impacts and cost-savings. We helped form and manage Steering Committees from a cross-section of stakeholders from each respective community. We successfully used community contacts to disseminate vital information. We helped design collateral – e-newsletters, sign-in forms, comment sheets. We conducted online surveys for citizen input for architectural designs of five schools being planned for rebuilding and achieved consensus. Currently, three of the five schools are under construction and ahead of schedule.

Housing Resource Center, Virginia Beach, VA (under construction)
It is to provide services to those who are homeless. The Miles Agency provided public outreach and meeting facilitation services during the architectural design phase.

Neighborhood Plan for Virginia Union University & Chamberlayne Industrial Center, Richmond, VA
Developed Public Involvement Plan for this city planning project. Identified key stakeholders and key community groups for public meetings. Helped facilitate public meetings and charrettes.

Fort Monroe Authority, Fort Monroe, VA
Developed and implemented public and media relations strategy for this public authority. Services include drafting and distributing news releases, scheduling media interviews, managing community relations activities and branding opportunities.

Regional Consolidation of Sewer System Assets Study, Hampton Roads Planning District Commission (HRPDC), Chesapeake, VA
Developed the communications plan for this regional project. Facilitated steering committee workshops, identified target stakeholders for internal and external communication. Maintained communication to inform the steering committee and other interested stakeholders about the study's progress and findings. Managed community input committee that was comprised of a cross-section of business, grassroots and regulatory agencies as well as civic and political leaders across the region.

THE Miles AGENCY
NICHE MARKETING AND PUBLIC RELATIONS

Annual Services Contract for Engineering Services for Neighborhood Channel Dredging, Virginia Beach, VA
Provided community relations service for this project that included responsibility for channel planning, public relations, regulatory permits, and overall design efforts. To-date, we have worked with the communities of Shadowlawn, Harbour Point, Chesopeian Colony, Bayville and Old Donation.

Burton Station Village, Virginia Beach, VA
Developed and implemented communications strategy for this infrastructure improvements project. Utilized mailings, public meetings and one-on-one interviews of property owners in this historically African American community being transformed by careful development and with the residents' collaboration.

Naval Station Norfolk, Transportation Study, Norfolk, VA
Researched and developed public involvement and marketing plan for this comprehensive study. Compiled data for strategic marketing recommendations from Adams Outdoor Advertising, Hampton Roads Transit, VDOT, Hampton Roads Transportation Planning Organization and the base's own communications resources.

Newtown Strategic Growth Area Implementation Plan, Virginia Beach, VA
Developed Public Involvement Plan for this city planning project. Identified key stakeholders and key community groups for public meetings. Helped organize public meetings, focus groups and 3-day charrette.

Pembroke Area Implementation Plan, Virginia Beach, VA
Developed Public Involvement Plan for this city planning project. Identified key stakeholders and key community groups for project presentations. Helped organize public meetings and 2-day charrette. Placed public notice ads and distributed flyers throughout the community.

Southeast Community Urban Waterfront Design Plan, Newport News, VA
Developed Public Involvement Plan for this Newport News project. Identified key stakeholders for interviews, helped plan and conducted public meetings. Facilitated public meetings. Worked directly with the media to address their inquiries.

Downtown Richmond Historic Streetcar Study Phase II, Richmond, VA
Coordinated public meetings and media relations. Conducted stakeholder interviews, intercept surveys.

GRTC Bus Facility Rehabilitation Study, Glen Allen, VA
Collaborated with prime to execute a Public Involvement Plan and provided technical writing, editing and production for final study document. We consulted on key stakeholders, political and financing strategies for this project.

THE Miles AGENCY
NICHE MARKETING AND PUBLIC RELATIONS

Delceno C. Miles

President and CEO

PROFESSIONAL EXPERIENCE

The Miles Agency, Virginia Beach, VA
President and CEO of this niche marketing and public relations agency, April 1989 - present. Firm offers public and media relations, market research, community relations and promotions

COMMUNITY INVOLVEMENT

Virginia Aquarium & Marine Science Museum
Board of Trustees (2005–present)
Board President (2015–present)

American Red Cross of Coastal Virginia
Board of Directors (2005–2016)

Christopher Newport University
Board of Visitors (2011–2014)

Hampton Roads Transportation Planning Organization
Citizens Transportation Advisory Council (2010-2014)

City of Virginia Beach Minority Business Council
City Council Appointee (2007–present)
Past Chair (2008-2010)

Women's Transportation Seminar, Hampton Roads Chapter
Member (2010–2014)

Hampton Roads Chamber of Commerce, Va. Beach Division
Board of Directors (1990–present)

Hampton Roads Chamber of Commerce
Regional Board of Directors, 2002 Chair

Conference of Minority Transportation Officials -- Hampton Roads Chapter,
Founding President (2002–2003)
Chaplain & Program Committee Chair (2007–2008)
Vice President of Strategic Development (2009–2012)

Education

Regent University,
MA. Communication, 2014

Dartmouth College - Amos Tuck
School of Business
Minority Business Executive
Program, 2000

Northwestern University - Kellogg
Graduate School of Management
Advanced Management Executive
Program, 1998

Stanford University
BA. Psychology, 1983

THE Miles AGENCY
NICHE MARKETING AND PUBLIC RELATIONS

C

Provide the names, street and mailing addresses, as well as email addresses and telephone numbers of all persons within the firm or consortium of firms who will be directly involved in the project or who may be contacted for further information.

DESIGN-BUILDER

Clancy & Theys Construction Company
11830 Fishing Point Drive, Suite 201
Newport News, Virginia 23606
757.873.6869
www.clancytheys.com

WIlliam J. Goggins
Vice President & Divisional CEO
billgoggins@clancytheys.com
(o) 757.873.6869
(m) 757.871.9844

DESIGNER

GuernseyTingle
4350 New Town Avenue, Suite 101
Williamsburg, Virginia 23188
757.220.0220
http://guernseytingle.com

Thomas G. Tingle, AIA
President
ttingle@guernseytingle.com
(o) 757.220.0220
(m) 757.876.5555

D

Provide current or most recently audited financial statements of the firm or firms and each partner with an equity interest of twenty percent or greater. Regardless of the individual equity interest of each firm or partner to the proposal, the most recent audited financial statements must be provided for firms and each partner that collectively comprise ninety percent of the equity interest in the project.

A copy of Clancy & Theys' most recent audited financial statement can be found in Tab 1 of Volume 2 of our proposal, as this document is considered confidential or proprietary information and is therefore protected from disclosure under FOIA.

E

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 Interest Act, Chapter 31 (§ 2.2-3100 et seq.) of Title 2.2, of the 1950 Code of Virginia, as amended.

Clancy & Theys Construction Company is unaware of anyone on our design-build team 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 Interest Act, Chapter 31 (§ 2.2-3100 et seq.) of Title 2.2, of the 1950 Code of Virginia, as amended.

F Identify the officers and directors of the firm or firms submitting the proposal.

The officers of Clancy & Theys Construction Company are as follows:

President:	David T. Clancy
Executive Vice President:	Joel T. Clancy
Vice President/Treasurer/CFO/Assistant Secretary:	Andrew L. Oakley
Vice President of Construction Operations, Raleigh Division:	T. Baker Glasgow
Vice President of Estimating, Raleigh Division:	John V. Andras
Vice President/CEO, Wilmington Division:	David F. Michael
Vice President/CEO, Virginia Division:	William J. Goggins
Vice President of Construction, Virginia Division:	C. Dean Conklin II
Vice President, Florida Division:	Jeffrey S. Mock
Vice President/Division Assistant Secretary, Florida Division:	William J. Zecher
Vice President and CEO, Charlotte Division:	Robert W. Hall
Corporate Secretary:	Rebecca S. Carter

G Identify all businesses that have a parent-subsidiary or affiliated business entity relationship with the firm or firms submitting the proposal.

Clancy & Theys Construction Company is unaware of any business that has a parent-subsidiary or affiliated business entity relationship with our firm or any member of our design-build team.

H

Identify all known contractors or service providers, including but not limited to the providers of architectural services, real estate services, financial services, and legal services. For each firm or major subcontractor that will provide those services, provide the following information; (i) a sworn certification by an authorized representative of the firm, firms or individual partners attesting to the fact that the firm, firms or partners are not currently debarred or suspended by federal, state or local governmental entities from providing such services; (ii) a completed qualification statement that reviews all relevant information regarding technical qualifications, capabilities, firm resources, business integrity, including but not limited to bonding capabilities, insurance coverage, film equipment. This statement will include mandatory disclosures by the firm, firms or partners for the past three years of any of the following business conducts: a) Bankruptcy filings b) liquidated damages c) fines, forfeitures, assessments or penalties e) contract defaults f) license revocation, suspension or other disciplinary actions g) prior debarments or suspensions by a governmental entity h) denial of prequalification findings of non-responsibility i) safety past performances data j) violations of any federal, state or local criminal or civil laws k) criminal indictments or investigations l) legal claims filed by or against the firm m) describe worker safety training programs, job site safety programs, accident prevention programs and written safety plans, including incident investigation and reporting procedures.

Our design-build team is composed of Clancy & Theys Construction Company, Gracia & Vigil, Warwick Mechanical Group, GuernseyTingle, Water Technology, Inc., b2E Consulting Engineers, P.C., Speight, Marshall & Francis, P.C., Kimley-Horn, TAM Consultants, Inc. and The Miles Agency.

Sworn certifications and completed qualification statements for each team member can be found in Tab 1 of Volume 2 of our proposal, as this information is considered confidential or proprietary information and is therefore protected from disclosure under FOIA.

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SECTION 2: PROJECT CHARACTERISTICS

Rendering: Hampton Aquatics Center

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.

Situated on an empty, blighted site, the proposed aquatic center will be a beautiful state-of-the-art facility that will provide a variety of aquatic activities and sports tourism opportunities.

Aquatic activities in our region are very popular. Hampton Roads and Southside alone are home to at least eight different club teams that participate in local, regional and national meets. Additionally there are dozens of high school and collegiate programs in the area who can also benefit from this facility. Aquatic sport activities the facility can host include training and competition in swimming, diving, water polo, and synchronized swimming with user groups including clubs, masters, colleges, and high school teams.

With multiple water temperatures and varying water depths, users of all ages an enjoy the facility's numerous instructional, wellness, fitness, and recreational offerings. Community members will be able to enjoy activities including learn-to swim, scuba and kayak instruction, aqua aerobics, paddleboard yoga, injury rehabilitation, aquatic dance, fitness swimming, water basketball and volleyball, birthday parties, and obstacle courses. Active aging adults will be able to improve quality of life from the social, psychological, and health benefits that aquatic exercise provides.

Most importantly, the facility can provide a safe environment for children and adults to learn to swim. According to the USA Swimming Foundation, 10 people drown each day in the United States, but formal swimming lessons can reduce the likelihood of childhood drowning by 88%. This facility can provide countless individuals in our community access to swim lessons and water safety courses.

ARCHITECTURAL DESIGN AND ENVIRONMENT

The new building is situated on the site so that the main entrance fronts onto the main parking lot. This orientation allows for drop off and pick up queueing on the site rather than adding congestion to Coliseum Drive during peak facility hours and large regional events. The contemporary design, complete with paneled corner accents and stepping entry lobby, is tailored to meet the Coliseum Central Design Standards and is consistent with aquatics facilities throughout the Eastern United States. The building masses are tempered with modern materials like storefront entrance glazing, differing textures and playful metal accents to complement the neighboring Conference Center and Coliseum.

As this building is primarily for public use requiring recorded admission and safety supervision, public entry is limited to the main entry doors located on the parking lot side of the building. The street front presence of the building on Coliseum Drive is broken down into a pedestrian scale utilizing a primary rhythm of pilasters and recesses along with storefront windows, shading structures and material changes.

The core program requirements addressed by the design include the lobby, locker and changing facilities, classroom, offices, pool spaces and spectator seating.

LOBBY

The Lobby is the main entrance to the building and will be used as a control point for event admission, member check-in and vending. The glass used in this area provides ample natural light, creating a warm and welcoming space. During regional swim events, teams will be able to utilize this space for team meetings, breaks between races and refreshments. The space is open to the mezzanine concourse and allows for several teams to set up camp prior to and during competition events.

LOCKER ROOMS, CHANGING FACILITIES AND WET CLASSROOM

Locker rooms have been carefully planned and laid out to provide accessibility directly from the lobby and are open to the 50 meter pool deck. The locker room also connects to a wet hall that allows access to the program pool without having to enter the competition pool area. Family changing rooms are located along the wet hall as well as entry to the wet classroom. Locker room lobby doors will be able to be secured during non-swim meets so that patrons will need to pass through the check-in desk for access to the lockers and pool.

The Wet Classroom is situated to serve several purposes. The classroom will be audio-visual technology compatible to allow for learn-to-swim program and team meetings. This room will also serve as a community meeting room and a place to hold birthday swim parties and other special events.

OFFICES

The office area includes space for support staff to operate and maintain the facility. This space will have rooms for staff meetings, work room, coach's office and a life guard/first aid station. The coach's office and lifeguard rooms will have access to the office area and to the competition pool deck, and have direct sight lines to the pool.

POOL SPACES

The competition pool areas inside both small & large building configurations includes a 50-meter long by 25-yard wide pool that will allow for training in 50-meter, 25-meter and 25-yard distances. The pool is designed to be competition acceptable to all FINA, USA Swimming, NCAA and NFHS rules and guidelines. Included are ten lanes in the 50-meter direction and twenty-one lanes in the 25-yard direction and will have a depth that varies from 6'-7" to 13'. Beyond organized competition and training, other activities that might occur in the pool include fitness swimming, underwater hockey, instructional programs, log rolling, recreational inflatables, kayaking, scuba training, rope climbing and paddleboard yoga.

The small building will have one 4-foot wide movable bulkhead and the large building will have two 4-foot bulkheads, both of which remain in the pool at all times to accomplish the multiple pool length configurations.

The east end of the pool in the small building will be 13-foot deep and will accommodate two 1-meter and two 3-meter springboards for competition diving. These springboards are designed to meet the USA Diving requirements. The 13-foot deep end and diving are moved to the west end of the plan in the large building, which better suits the expanded L-shaped mezzanine seating above.

The space around the pool is sized to allow for starting blocks, queueing of swimmers and athlete seating along with providing clear sight lines for the spectators sitting in the mezzanine section. Glazing assemblies, such as Velour glass, allow natural light into the space to avoid glare off the water surface.

COMPETITION POOL

Surface Area:	12,900 SF
Dimensions:	168'-2" x 75'-1" (172'-3" long - one bulkhead, 176'-4"- two bulkheads)
Water Temperature:	79 to 81 F
Water Depths:	6'-7" TO 13'
Water Volume:	700,000
Turn Over Rate:	1,944 GPM
Turn Over Time:	360 MINUTES
Filtration Rate:	1.3 GPM/SF
Backwash Rate:	Tank Drains by Gravity at 300 GPM into Floor Sink
Total Filtration Area	1,625 SF
Filter:	Regenerative Media
Heater:	High-Efficiency Gas Boiler
Gutters:	Slightly Sloped Deck-Level High-Performance Gutter (Myrtha or tile)
Additional Features:	Bulkhead(s) with starting platform anchors, Springboard Diving, Medium Pressure UV system.

The program pool is a multi-purpose pool which will accommodate numerous recreational and instructional activities. The pool depth ranges from 3'-6" to 4'-8" and will include an accessible ramp for entry by disabled patrons. In addition, the pool is designed with a long wet bench area for teaching small children. An area for bleachers is provided in the program pool space, to accommodate out of water instruction, allow parents to watch their children, and to offer a waiting area. The small building will include a 4-lane program pool and the large building will have all the same features but expanded to 8-lanes.

PROGRAM POOL

Surface Area:	2,900 SF (4-lane) or 5,225 SF (8-lane)
Dimensions:	39' x 75' (4-lane) or 66' x 75' (8-lane)
Water Temperature:	85 to 88 F
Water Depths:	0" TO 4'-8"
Water Volume:	86,000 Gallons (4-lane) or 156,000 (8-lane)
Turn Over Rate:	358 GPM (4-lane) or 650 GPM (8-lane)
Turn Over Time:	240 minutes
Filtration Rate:	1.2 GPM/SF
Backwash Rate:	Tank Drains by Gravity at 300 gpm into Floor Sink
Total Filtration Area:	381 SF (4-lane) or 572 SF (8-lane)
Filter:	Regenerative Media
Heater:	High-Efficiency Gas Boiler
Gutters:	Deck-Level (Myrtha or tile)
Additional Features:	Stair, Ramp Entry, Bench, Medium-Pressure UV

Each of these pool spaces will be acoustically treated to reduce noise and echo in the space which will promote better instructional understanding and spectator enjoyment.

WHIRLPOOL (ADD ALTERNATE)

- The Whirlpool will accommodate approximately twelve people.
- Whirlpool will have performance benefits for divers by allowing them to maintain body temperature while diving in a relatively cool pool.
- Whirlpool will have therapeutic and social benefits to multiple users of the facility.
- The pool will have a raised perimeter wall that serves as a wheelchair transfer wall.

Surface Area:	110 SF
Water Temperature:	95 - 103 F
Water Depths:	3'-0"
Water Volume:	2,475 Gallons
Turn Over Rate:	165 GPM
Turn Over Time:	15 MINUTES
Filtration Rate:	1.3 GPM/SF
Backwash Rate:	300 GPM by gravity

Total Filtration Area:	146 SF
Filter:	Regenerative Media
Heater:	High-Efficiency Gas Boiler
Skimmers:	In wall
Additional Features:	Jet pump with wall timer, Medium-Pressure UV

SEATING

The mezzanine spectator seating area is located over the locker rooms and office areas. The space is accessible via the elevated concourse. Additionally, an elevator is provided for convenience and accessibility. A closed stair is designed with direct access to the exterior to meet life safety code regulations. Restrooms are provided on this level as well as space for teams to set up refreshment sales. The seating area is separated from the open lobby space and includes nine rows of bench seating. Capacity for the small building is designed at 787 with an additional nine wheelchair spaces and nine wheelchair companion seats for a total of 805 spectator seats. The large building expands the small building's seating area and has an additional side of bleacher seating, forming an L-shape around the competition pool below. This brings the total number of spectator seats in the mezzanine to 1,500.

There is additional seating on the pool deck for 648 for the small building and 760 for the large building, resulting in a total seating capacity in the competition pool area of 1,453 (2,260 for large building). There is also seating on the program pool deck for 72 in the small building with 4-lane pool and seating for 144 in the large building with 8-lane pool.

MAINTENANCE AND DURABILITY

As a building designed primarily for public recreation space, we want to make sure that the tremendous contribution by the community for this building is met with a resilient and durable place for citizens to enjoy for years to come.

Material selection is also a key component of durability and maintenance for a public building. We have incorporated durable materials such as seamless epoxy flooring and Luxury Vinyl Tile to allow a minimal area of replacement if necessary instead of roll or sheet goods. Epoxy painted CMU walls around the pool areas will provide a seamless vapor barrier around these spaces to allow the mechanical systems to control the environment and prevent corrosion to the structure. Designed with open, easily accessible spaces and surfaces, we have eliminated problem areas encountered in the day-to-day maintenance of a building that will be so publicly used.

FUTURE GROWTH

The building is laid out with particular attention paid to future expansion for an outdoor aquatics park to the north east of the site. The area along Pine Chapel road is large enough to accommodate a 30,000 sq ft facility which could include water slides, lazy river, wading pool and a splash pad.

ADDITIONAL PROJECT INFORMATION

Please find a selection of renderings and plans on the following pages. A more in-depth narrative, as well as additional renderings and plans can be found in Tab 2 of Volume 2 of our proposal, as this information is considered confidential or proprietary information and is therefore protected from disclosure under FOIA.

Hampton Aquatics
View from North
12/20/18

These drawings and this design remain the property of GuernseyTingle and their consultants and may not be altered, reproduced, or built without written permission of the Architect.

Artist's Rendering - Subject to Change

WTI WATER TECHNOLOGY, INC.

CLANCY & THEYS CONSTRUCTION COMPANY

GuernseyTingle ARCHITECTURE | INTERIORS | PLANNING

Hampton Aquatics
Competition Pool with Diving Configuration
12/20/18

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Artist's Rendering - Subject to Change

WTI WATER TECHNOLOGY, INC.

CLANCY & THEYS CONSTRUCTION COMPANY

GuernseyTingle ARCHITECTURE | INTERIORS | PLANNING

Hampton Aquatics
Small Building // Site Plan
12/20/18

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Artist's Rendering - Subject to Change

Kimley»Horn

WTI WATER TECHNOLOGY INC.

CLANCY & THEYS CONSTRUCTION COMPANY

GuernseyTingle ARCHITECTURE | INTERIORS | PLANNING

Hampton Aquatics
Large Building // Site Plan
12/20/18

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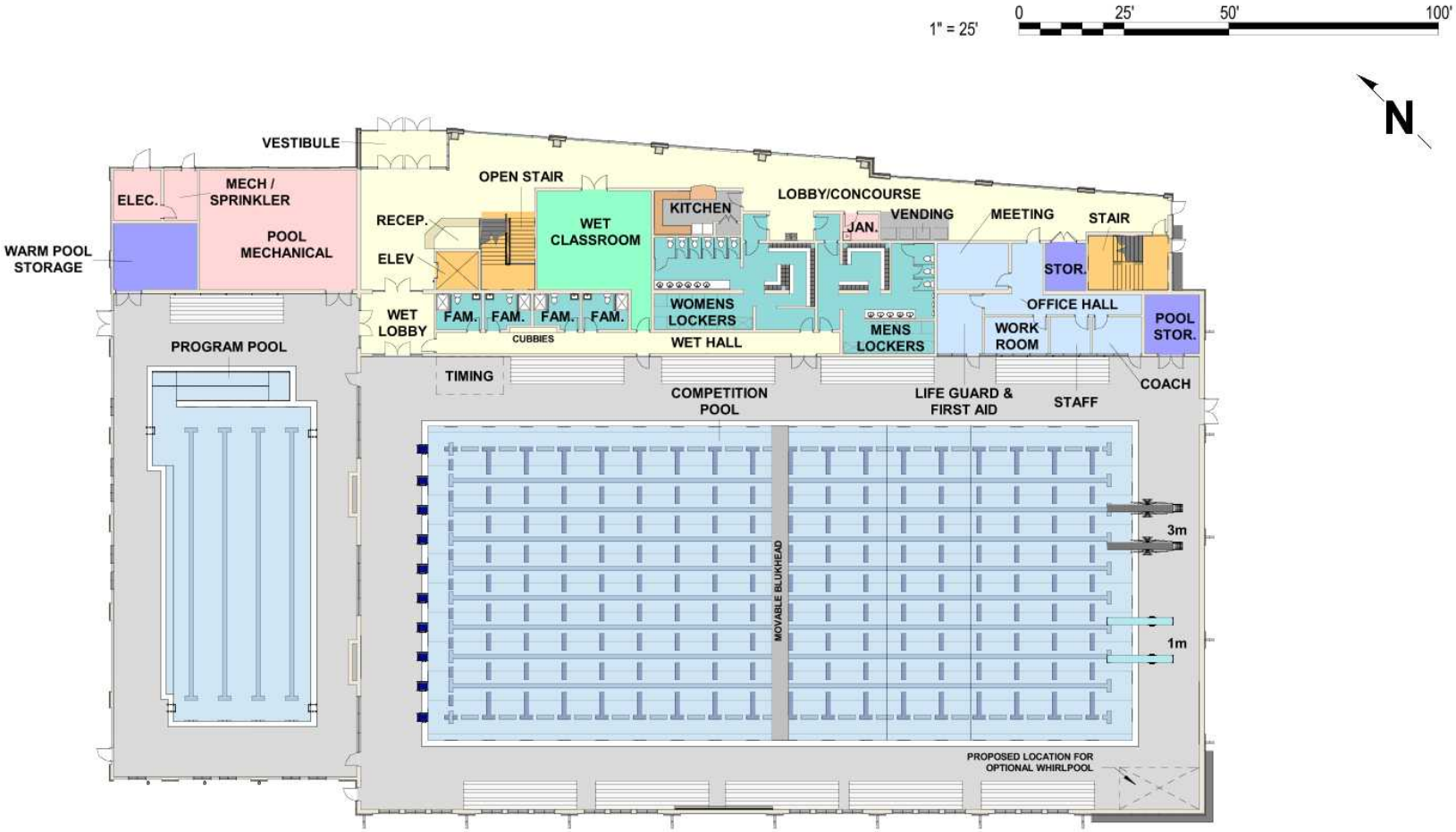
Artist's Rendering - Subject to Change

Kimley»Horn | WTI WATER TECHNOLOGY, INC. | CLANCY & THEYS CONSTRUCTION COMPANY | GuernseyTingle ARCHITECTURE | INTERIORS | PLANNING



Hampton Aquatics
Small Building // First Floor Plan
12/20/18

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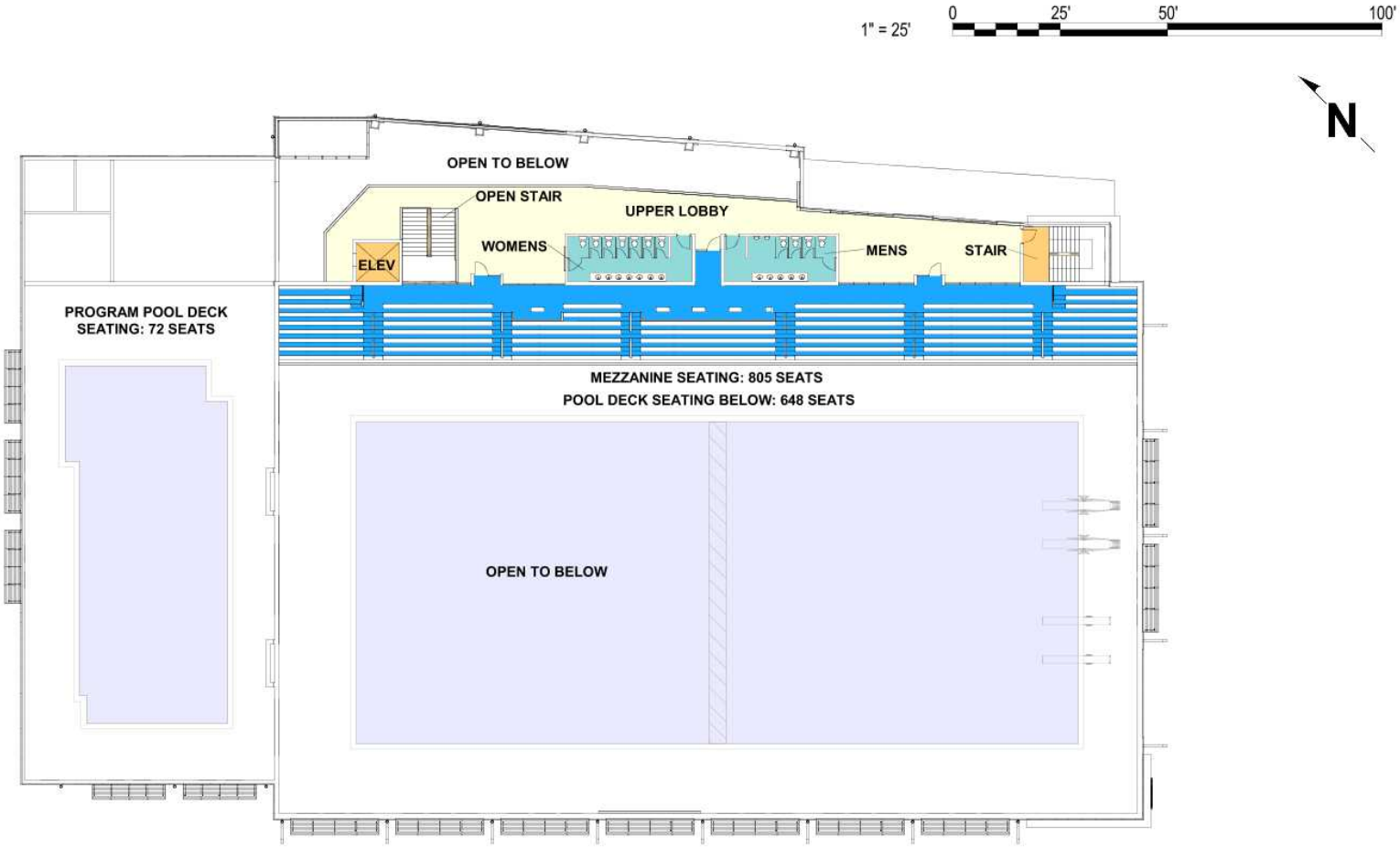
Artist's Rendering - Subject to Change

WTI WATER TECHNOLOGY, INC

CLANCY & THEYS CONSTRUCTION COMPANY

GuernseyTingle ARCHITECTURE | INTERIORS | PLANNING



Hampton Aquatics
Small Building // Mezzanine Floor Plan
12/20/18

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Artist's Rendering - Subject to Change

WTI WATER TECHNOLOGY, INC.

CLANCY & THEYS CONSTRUCTION COMPANY

GuernseyTingle ARCHITECTURE | INTERIORS | PLANNING

Hampton Aquatics
Large Building // First Floor Plan
12/20/18

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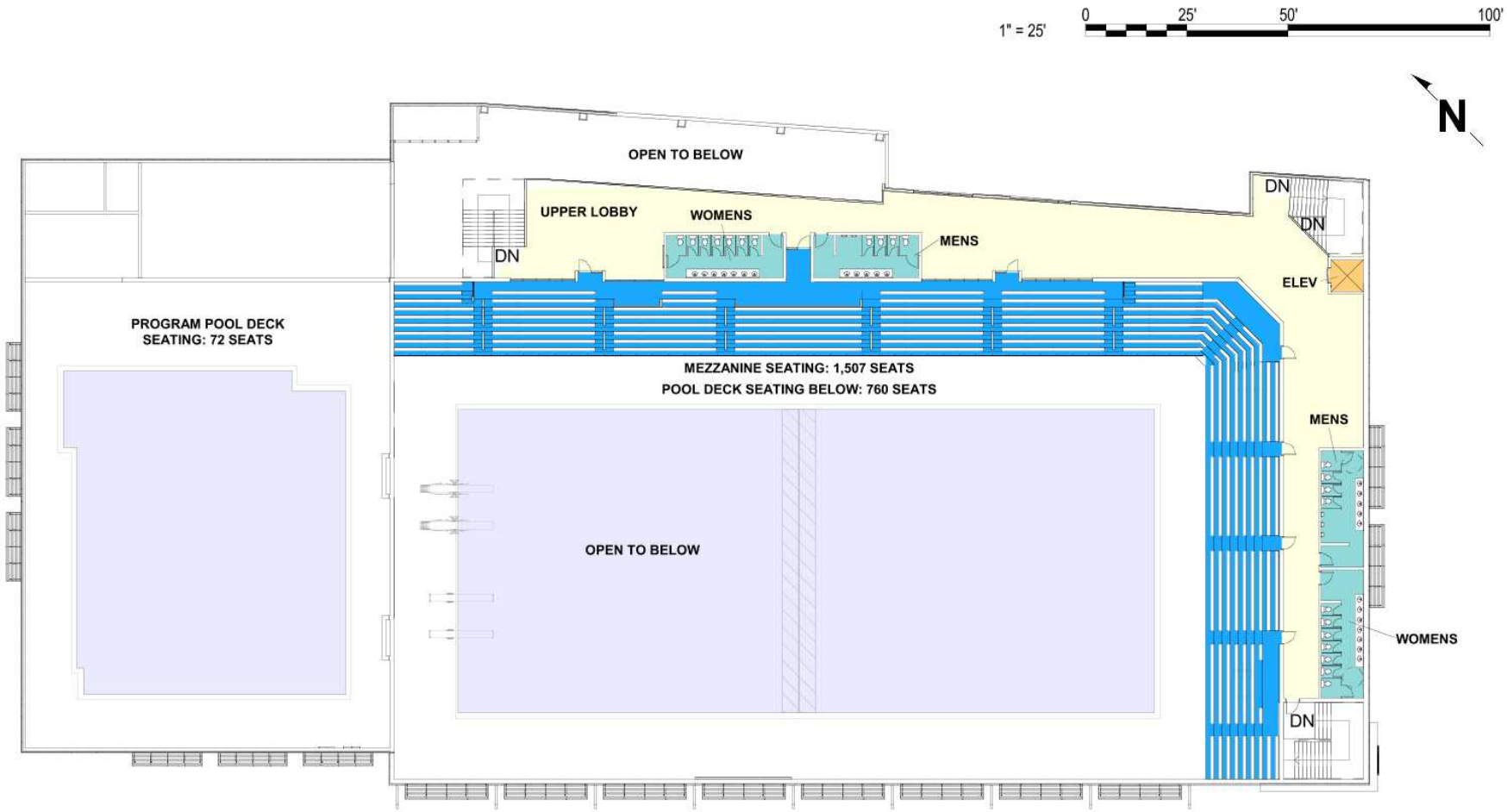
Artist's Rendering - Subject to Change

WTI WATER TECHNOLOGY, INC.

CLANCY & THEYS CONSTRUCTION COMPANY

GuernseyTingle ARCHITECTURE | INTERIORS | PLANNING



Hampton Aquatics
Large Building // Mezzanine Floor Plan
12/20/18

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Artist's Rendering - Subject to Change

WTI WATER TECHNOLOGY, INC.

CLANCY & THEYS CONSTRUCTION COMPANY

GuernseyTingle ARCHITECTURE | INTERIORS | PLANNING

Hampton Aquatics
Outdoor Water Park // Splash Tower + Water Basketball
12/20/18

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Artist's Rendering - Subject to Change

WTI WATER TECHNOLOGY, INC.

CLANCY & THEYS CONSTRUCTION COMPANY

GuernseyTingle ARCHITECTURE | INTERIORS | PLANNING

B Identify and fully describe any work to be performed by the City or any other public entity.

The City of Hampton will provide the following:

- Geotechnical report, to confirm soil suitability and that special foundations are not required
- Current property survey
- Security surveillance cameras systems for ten (10) locations (Design-Builder to supply conduit);
- Site plan and building permit review fees
- Storm water quality and quantity accommodation in Coliseum Lake
- Storm water permitting fees
- Permanent electrical service fees and any private utility fees
- Confirmation that turn lanes and offsite improvements are not required
- Work beyond the limits of our contract
    - Please refer to drawings and estimate in Volume 2
- Design-Builder to provide sitework, but additional parking beyond what is shown will be performed by the City of Hampton
- Emergency Broadcast System

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.

We will work with the various government entities to identify all necessary permits for the completion of this project including:

- Foundation/Building
- Land disturbance
- E&S Control
- Department of Environmental Quality
- Site
- Plumbing
- Electrical
- Elevator
- Sprinkler
- Right of Way (limited to driveway entries)
- Stormwater

Please refer to our schedule located in Tab 2 of Volume 2, as this is considered confidential or proprietary information and is therefore protected from disclosure under FOIA.

D Identify any anticipated adverse social, economic and environmental impacts of the project. Specify the strategies or actions to mitigate known impacts of the project.

We anticipate that the recreational, cultural and economic development benefits of the proposed Aquatics Center will be received by the City of Hampton, its residents and its businesses, as a very positive benefit. According to a briefing to Hampton City Council by City Staff on December 13, 2017, the facility would have an operating deficit. However, the same briefing anticipated an annual economic impact of 4 to 12 times the operating deficit (without an economic multiplier). The operating deficit could further be reduced through numerous revenue-generating models, including advertising, food concessionaires, food trucks, public-private partnerships, etc.

E Identify the projected positive social, economic and environmental impacts of the project.

The proposed Aquatics Center provides numerous positive social, economic and environmental impacts on the City of Hampton.

- The project will repurpose an existing, blighted site, which will be a benefit to the community, and further incentivize private investment in the Coliseum Central District.
- The site selected has not provided any public or fiscally positive impact for the City since the Best Products facility closed in the late 1970's.
- The facility is designed for significant use by City residents, including swimming, drowning prevention programs, water aerobics, physical therapy, recreation, physical fitness, meetings parties, and numerous other programmed and unstructured activities.
- Learn to swim and water safety opportunities can be provided at the facility, which can decrease drownings.
- Visitors and users of the facility will provide additional revenue to hotels, restaurants, retail, and other businesses in the Coliseum Central district and the City.
- The Aquatics Center could provide'-advertising opportunities for local businesses.
- The City could promote recreation tourism packages with other Hampton City attractions, as well as other tourism venues on the Peninsula and Southside Hampton Roads.
- The facility will be quite visible and recognizable to the 150,000 vehicles passing by daily on I-64 and is easily accessible to I-64, Mercury Boulevard and Power Plant Parkway.

Seniors take a water aerobics class at the Virtua Fitness Center in Washington Township, NJ. Photo courtesy of Water Technology, Inc.

RESPONSE CONTINUED ON NEXT PAGE

Children enjoy the outdoor water park at Dolphin's Cove located in Sun Prairie, Wisconsin on a hot summer's day. Photo courtesy of Water Technology, Inc.

- Accommodations and restaurants are within walking distance of the proposed site.
- The site is located near the Hampton Roads Convention Center and Hampton Coliseum, allowing joint use by groups, as well as joint use parking for larger swimming events.
- The facility is designed to accommodate recreational swimming and competitive swimming, as well as fitness and instructional programs, simultaneously.
- The larger facility option incorporates an outdoor water park, splashpad and other water recreational amenities.

COMMUNITY IMPACT: THE CORE – HOBBS, NEW MEXICO

The CORE, located in Hobbs New Mexico, is a multi-generational facility that incorporates recreational activities and amenities for community members of all ages. The project was an unprecedented collaboration between the county, local school district, New Mexico Junior College, the University of the Southwest, and the City of Hobbs. The facility has generated jobs for the community, serves as a local and regional draw for tourism, and has allowed the regional parks and recreation to become more active. It has been so well received, that people will drive 2-4 hours to partake in all the facility has to offer. In their first year of operation, the project team received World Waterpark's Leading Edge Award, a national award that recognizes individuals or parks for creativity in the development of new themes, facilities, programs, services or operational concepts in the water attractions industry.

Our Design-Build team member, Water Technology, Inc. completed the aquatics designs for this facility.

F Identify the proposed schedule for the work on the project, including sufficient time for the City's review and the estimated time for completion.

Please find our schedule located in Tab 2 of Volume 2, as this is considered confidential or proprietary information and is therefore protected from disclosure under FOIA.

G Propose allocation of risk and liability for work completed beyond the agreement's completion date, and assurances for timely completion of the project.

Clancy & Theys Construction Company is firmly committed to being good stewards of our clients' resources, and we will provide the required payment and performance bonds for this project, to minimize risk to the City and cover any potential default. Our pre-construction team has worked tirelessly to create an aggressive schedule that will meet the City's the needs.

"It is the nature of construction to experience problems while any project is underway, whether it comes in form of design, constructability, materials, labor, logistics or weather. Clancy & Theys is one of the few General Contractors and Construction Managers that we have worked with whom consistently anticipated potential problems and worked as a team with their suppliers and subcontractors to plan around or resolve the problem, before it had any effect of safety, quality, production or schedule."

DAVID M. SOMERO | PRESIDENT S&S CONCRETE FLOORS, INC.

H State assumptions related to ownership, legal liability, law enforcement and operation of the project and the existence of any restrictions for the City's use of the project.

During pre-construction, we will meet with various City departments to review all aspects of the project. Ultimately, the City will retain ownership, legal liability, law enforcement and operation of the facility, with no restrictions for its use.

I Provide information relative to phased or partial openings of the project prior to completion of the entire work proposed.

Together with the City, we will coordinate FF&E, and provide commissioning and training. The facility will not open to public until the project is 100% complete.

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

For the project to be successfully, our team has made and will rely on the following assumptions:

- Peak occupancy parking beyond what is shown in our drawings will be provided by the City
- The City will ensure storm water quantity/quality off-site
- Timely receipt of all items to be provided by the City as noted in response to question B
- The City to provide site property survey
- Existing sanitary line along the north end of the site as capacity of 150/GPM flow and the sanitary line, as it currently installed, is acceptable to the City
- Funding for this project to be provided/approved by City's Capital Improvement plan and budget

RESPONSE CONTINUED ON NEXT PAGE

Additionally, the documents we have submitted are schematic in nature. We look forward to working with City of Hampton to incorporate any revision/modifications/additional work prior to the completion of the design development drawings.

K

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

BUILDING/DESIGN STANDARDS

Virginia Construction Code 2012
ICC A117.1 - Accessibility
Virginia Mechanical Code – 2012
Virginia Plumbing Code – 2012
Virginia Fuel and Gas Code – 2012
Virginia Building and Fire Regulations – 2012
Virginia Energy Conservation Code – 2012 & ASHRAE 90.1 – 2010
ASHRAE 62.1 – 2010, Ventilation for Acceptable Indoor Air Quality
ASHRAE 55 – 2010 Thermal Comfort
ASHRAE 15 – 2010 Mechanical Refrigeration Code
NFPA 13 – Automatic Sprinkler System
NFPA 70 – National Electric Code
Illumination Engineering Society (IES) – Handbook Guidelines
Coliseum Central Design Standards
Hampton Zoning Ordinance
City of Hampton Resiliency Guidelines
Virginia Stormwater Management Program
Virginia Erosion and Sediment Control Handbook
City of Hampton Zoning Ordinance
City of Hampton Design and Construction Standards
Coliseum Central Design Standards
Living with Water Hampton: A Holistic Approach to Addressing Sea Level Rise and Resiliency
Newport News Waterworks Distribution Standards
Virginia Department of Health (Environmental Health – Pool and Spa Safety)

POOL STANDARDS

USA Swimming
USA Diving
USA Water Polo
USA Syncro
NCAA Swimming, Diving, Water Polo, Syncro
National Federation of State High School Associations – Swimming, Diving, Water Polo

L Define applicable quality standards to be adhered to for achieving the desired project outcome(s).

Through our narrative and schematic design, we have addressed quality standards for the entire project. All aspects of the project will be reviewed with the City and the Department of Recreation to ensure the Owner's criteria have been met. Applicable requirements from the Coliseum Central and Resilient Design Standards have been incorporated into the design.

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

For this project to be successful:

- All existing public and private utilities servicing the site must be sufficient
    - Storm water quality and quantity measures have been previously addressed by the City offsite, and none are required onsite.
- The drawings submitted to City are accepted and approved in a timely fashion
- Review is not to exceed 60 days for site plan and concurrently 30 days for building plan
- The City of Hampton must be able to secure and provide complete funding for the project

SECTION 3: PROJECT FINANCING

Photo: Triangle Aquatic Center

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

Please find this information in Tab 3 of Volume 2, as this is considered confidential or proprietary information and is therefore protected from disclosure under FOIA.

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.**

Please find this information in Tab 3 of Volume 2, as this is considered confidential or proprietary information and is therefore protected from disclosure under FOIA.

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, a 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.**

Please find this information in Tab 3 of Volume 2, as this is considered confidential or proprietary information and is therefore protected from disclosure under FOIA.

D **Identify the proposed risk factors and methods for dealing with these factors. Describe methods and remedies associated with any financial default.**

Please find this information in Tab 3 of Volume 2, as this is considered confidential or proprietary information and is therefore protected from disclosure under FOIA.

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 and the timing of any anticipated commitment. Such disclosure should include any direct or indirect guarantees or pledges of the City's revenue stream.**

Please find this information in Tab 3 of Volume 2, as this is considered confidential or proprietary information and is therefore protected from disclosure under FOIA.

F **Identify the proposed risk factors and methods for dealing with these factors. Describe methods and remedies associated with any financial default.**

Please find this information in Tab 3 of Volume 2, as this is considered confidential or proprietary information and is therefore protected from disclosure under FOIA.

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

Please find this information in Tab 3 of Volume 2, as this is considered confidential or proprietary information and is therefore protected from disclosure under FOIA.

H **Any debt issuance should be expected to receive an investment grade rating from a nationally recognized statistical rating agency. If the natural rating is non-investment grade, the City may require the use of credit enhancements.**

Please find this information in Tab 3 of Volume 2, as this is considered confidential or proprietary information and is therefore protected from disclosure under FOIA.

I **Outline the financial penalties, if any, that would result should the City wish to terminate a project early or restructure the cash flows for some reason of its own choosing.**

Please find this information in Tab 3 of Volume 2, as this is considered confidential or proprietary information and is therefore protected from disclosure under FOIA.

J **Provide a breakout of the fees to any underwriting firms(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.**

Please find this information in Tab 3 of Volume 2, as this is considered confidential or proprietary information and is therefore protected from disclosure under FOIA.

K **Provide a letter of interest or commitment from the financial institution which proposer has identified as a financial partner in the project.**

Please find this information in Tab 3 of Volume 2, as this is considered confidential or proprietary information and is therefore protected from disclosure under FOIA.

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SECTION 4: PROJECT BENEFIT AND COMPATIBILITY

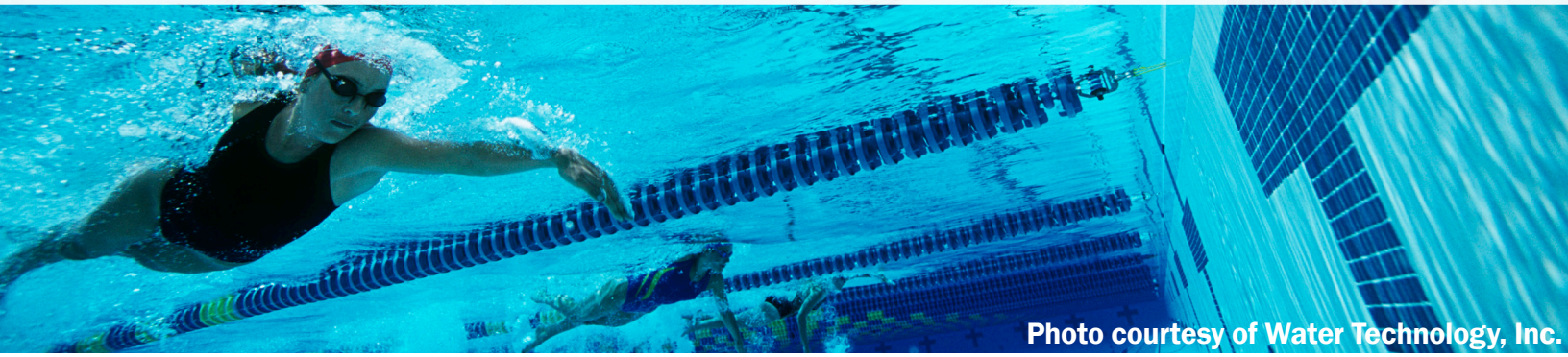


Photo courtesy of Water Technology, Inc.

A

Identify who will benefit from the project, how they will benefit and how the project will benefit the City, region, or state.

• City residents will benefit from the numerous aquatics programs that can be accommodate in the facility, including swimming, drowning prevention programs, water aerobics, physical therapy, recreation, physical fitness, meetings/ parties, and numerous other programmed and unstructured activities.

• Hampton City Schools will benefit from the use of the facility for swim team practice and swim meets.

According to the USA Swimming Foundation, 64% of African-American, 45% of Hispanic/Latino, 40% of Caucasian children, and 79% of children in households with incomes less than $50,000 have little to no swimming ability; however, the foundation also reports that **swimming lessons can reduce the likelihood of childhood drowning by 88%.**

Who will benefit from the Hampton Aquatics Center?

- ✓ The entire community, from youth to families to seniors
- ✓ Local business
- ✓ Local/regional aquatic programs, including high school, club and college teams
- ✓ The Coliseum Central District
- ✓ The City of Hampton

• Local swim clubs, adult swim leagues, local colleges and universities, local private schools, college conferences and other organized programs will benefit from the swimming and diving meet venue that will be one of the best in the region.

• The combined mezzanine and pool deck seating capacity of over 1,500 will accommodate significant regional swimming and diving events.

RESPONSE CONTINUED ON NEXT PAGE

• Hospitality businesses throughout the City of Hampton will benefit from out-of-town overnight visits by swimmers, coaches, families and spectators.
• Retail business in the City will see economic benefit from all events scheduled in the aquatics center.
• The City of Hampton will benefit from renewed investment in the Coliseum Central district by private business, such as additional hotel rooms, restaurants, retail and service businesses.

SUCCESS STORY: TUPELO AQUATICS CENTER – TUPELO, MISSISSIPPI

The Tupelo Aquatics Center in Tupelo, Mississippi is an aquatics center very similar to the proposed Hampton Aquatics Center. This high-quality facility has been well received by the community and has seen great success in multiple facets.

- Increased the number of swim lessons participants from 500 to 2,000 in a year
- Increased participation in the free lesson program offered in conjunction with the school district by more than 600 children each year
- Five local high schools started swim teams utilizing the aquatic center
- Increased the number of classes taken by participants from 3,000 to 12,000
- In one year helped more than 4,000 children learn to swim
- Hosted invitational, state championships and Southern Zone Championships
- Added $3.25 million to the city's economy

B Identify any anticipated public support or opposition, as well as any anticipated government support or opposition, for the project.

The Aquatics Center has been identified as a priority for the City of Hampton, filling a void in the recreational opportunities in the City and a void in competitive swimming/diving facilities in the mid-Atlantic region.

Business owners will be supportive of the additional sports tourism venue to help increase business and customer traffic. City residents will be supportive of the recreational, therapeutic and water safety programs offered in the facility. Support for the facility can also be anticipated from local club, high school, and college swim teams. Our team has already heard from numerous coaches in the area who are in favor of this facility.

Additionally, the public at large will be supportive of the many community outreach opportunities the facility can provide. From learn to swim programs to charity events to summer camps, the facility will provide ample outreach opportunities for the community.

"We need something like this in the area. It will be beneficial to the community, it will bring people and revenue to the area, and it will allow local swimmers another opportunity to train and compete in a suitable facility. And, if the facility can be used to run learn to swim programs, water safety, aerobics, etc., then it can be beneficial to every community member from every socioeconomic and racial background."

MATT CRISPINO | HEAD SWIMMING COACH – THE COLLEGE OF WILLIAM & MARY

RESPONSE CONTINUED ON NEXT PAGE

Some could perceive competitive swimming facilities as serving a small portion of the population – those that are involved with swim teams and diving teams. This facility is designed to serve the entire population of the City and allows simultaneous use of the 50M pool for practice/events while the recreational/program pool can be used by residents.

We also understand that some community members are opposed to the aquatics center due to financial concerns of an operating deficit that could lead to tax increases; however, a briefing to Hampton City Council by City Staff on December 13, 2017 anticipated an annual economic impact of 4 to 12 times the operating deficit (without an economic multiplier).

COMMUNITY OUTREACH OPPORTUNITIES = COMMUNITY SUPPORT

Similar facilities such as the Greensboro Aquatics Center, and Christiansburg Aquatics Center host a variety of events that have been well received by their communities. The Greensboro Aquatics Center, for example, hosts an annual Swim Day that teaches kids with autism basic swimming skills, while raising awareness about the disorder. The Christiansburg Aquatics Center, with help of the Virginia Tech Swimming and Diving Team, holds annual swim clinics that are free to members of the community.

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

Our team includes The Miles Agency as a member dedicated solely to public involvement and engagement in the implementation of the aquatics center. This process, which will be scheduled as soon as approved by Hampton City Council, allows citizens, businesses and City staff to work collaboratively to review the proposed design and potential aquatics programs desired by the community.

Keeping the community and all stakeholders up-do-date on the project's status will be key to gaining and keeping their approval. Led by the Miles Agency, our team can work with the City to develop a communication strategy. The process will include at least two workshops to engage stakeholders, students, parents, active swimmers and other members of the community. The results of the public engagement process will be provided to the City for news releases, social media, website and other outreach opportunities.

We will also work closely with community groups including the Coliseum Central Business Improvement District, the Virginia Peninsula Chamber of Commerce and the Hampton Roads Sports Commission and utilize their expertise in regards to community, business and governmental outreach.

Throughout construction, our team can host town hall style meetings and hold tours, both in-person and virtual. This will allow us to better understand the concerns of the community (and thus, be able to mitigate them), while providing them with opportunities to be involved in the construction process.

RESPONSE CONTINUED ON NEXT PAGE

Tours, both in-person and virtual, can also provide a one-of-a-kind learning experience for local high schools and colleges. This will involve them in the process, while providing them with opportunities to learn about future careers in architecture, construction, and engineering.

FROM OPPOSITION TO SUPPORT: DOLLAR TREE DISTRIBUTION CENTER

In 2011, Clancy & Theys Construction Company was set to build Dollar Tree's next Distribution Center in Windsor, Connecticut. Despite the many benefits of the distribution center, the community was apprehensive, especially about the construction process. To alleviate their concerns and engage them in the process, Clancy & Theys hosted numerous community meeting and sent out letters informing them of upcoming construction activities. The community was also provided with direct contact information of our staff, which allowed them to voice their concerns at any time and helped us to better stewards of their community. One such phone call was a compliant that the construction activity was causing their cars to be dirtier. Our team immediately took this concern seriously and provided the neighborhood with vouchers to a local carwash. By keeping the community constantly informed and providing them with opportunities for their concerns to be heard, we changed their opposition of the project to support.

D Describe the anticipated significant benefits to the community and the City, region or state, including anticipated benefits to the economic condition of the public entity and whether the project is critical to attracting or maintaining competitive industries and businesses to the City.

The City's 2040 Community Plan involves a strategic plan to revitalize Coliseum Central. One of the goals of this plan is to provide recreational and entertainment opportunities—a goal which the Hampton Aquatics Center will achieve.

Beyond the recreational and entertainment opportunities, the project can attract and maintain competitive industries and businesses to the City through numerous sports tourism opportunities.

Sports Tourism is one of the fastest-growing tourism sectors in the United States. The benefits to a City are numerous, including:

- Family travel and extended night stays at other local tourism venues before, during and after the sporting events.
- The facilities constructed for sports tourism (such as an aquatics center) provide additional benefit to City children, schools and recreational groups when not used as sports tourism venues.
- The facilities draw visitors to the region that might not otherwise be enticed by traditional tourism attractions.
- Sports tourism is a "clean industry", with minimal environmental and compatibility conflicts.
- Signature sporting facilities add to a City's quality of life, which can attract business investment and new residents to the City.

As a sports tourism destination, the Hampton Aquatics Center would attract a variety of aquatic sports. Photo courtesy of Water Technology, Inc.

RESPONSE CONTINUED ON NEXT PAGE

This aquatics facility will become the new gem in Hampton's crown, a bold rejuvenating venue that complements the nearby gems of their own time: The Hampton Coliseum and the Hampton Roads Convention Center.

ECONOMIC IMPACT OF THE TRIANGLE AQUATICS CENTER IN RALEIGH, NORTH CAROLINA

Each year, the Triangle Aquatics Center, which was built by Clancy & Theys, hosts nearly 50 different local and regional swim meets that bring in hundreds, and sometimes thousands, of visitors. Over the last 5 years, the facility has generated an average of $7,000,000 in direct visitor spending subject to hotel and meals taxes.

E

Describe compatibility with the City's comprehensive plan, infrastructure development plans, the capital improvements budget or other government spending plan.

This project is compatible with the City's Comprehensive Plan, the Coliseum Central Business Improvement District plans, the 2015 Coliseum Central Master Plan, the Coliseum Central Draft Design Standards, and the City's Zoning Ordinance.

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.

Like the City of Hampton, our team understands the importance of utilizing Small, Women and Minority-Owned business (SWaM). Our team for this project already includes several SWaM-certified business based locally in Hampton Roads, including:

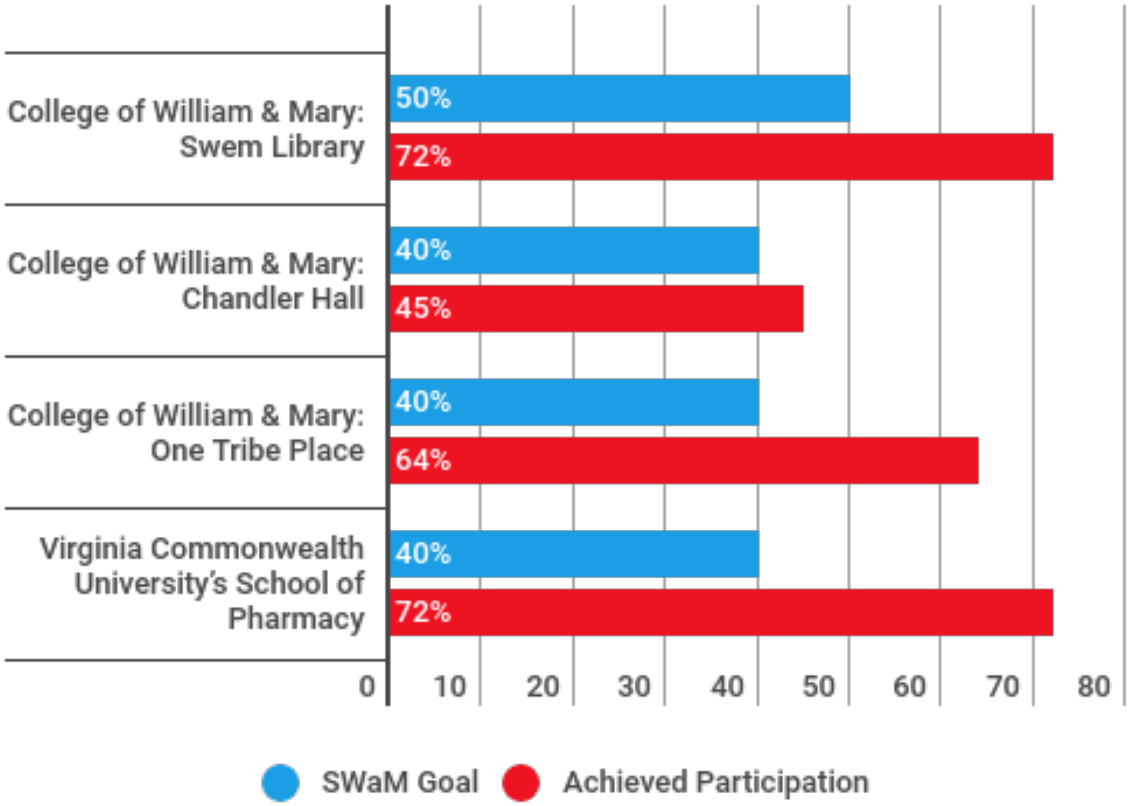
- GuernseyTingle: Small #664163
- b2E: Small Business #673225
- Speight Marshall & Francis: Small Business #651486
- TAM Consultants: Micro/Small Business #663056
- Miles Agency: Small/Women Owned/Minority Owned #776

DESIGN-BUILD SUBCONTRACTOR PARTICIPATION

Clancy & Theys is firmly committed to encouraging and promoting participation by SWaM businesses. Our firm has a history of not only meeting, but exceeding targeted SWaM participation goals on projects, including those for the College of William & Mary and Virginia Commonwealth University.

RESPONSE CONTINUED ON NEXT PAGE

PREVIOUS SWAM PARTICIPATION RESULTS



After the successful delivery of the Sandler Center for the Performing Arts for the City of Virginia Beach we were awarded the City's Diversity Champion Service Award. While there were no formal SWaM participation requirements for this project, our team made every effort to maximize SWaM participation where possible.

Our team will employ the same techniques from these successes to engage and utilize SWaM businesses for the Hampton Roads Aquatic Center including:

- Identifying local and statewide SWaM certified businesses
- Verifying SWaM status
- Vreating pre-qualification solicitations
- Notifying second-tier vendors
- Distributing pre-qualification documents
- Developing efficient bid packaging plans
- Developing general conditions opportunities
- Distributing pre-qualification notices
- Scheduling multiple pre-bid meetings
- Providing bid resources and bonding and insurance support
- Quick pay incentives

SOLICITING AND CHOOSING QUALIFIED SUBCONTRACTORS

With every project, Clancy & Theys strives to competitively solicit and prequalify subcontractors and trades, whether SWaM-certified or not, that share our focus of quality, safety and schedule; while being cost competitive.

RESPONSE CONTINUED ON NEXT PAGE

Step 1: Advertise the Project

To maximize participation from a diverse group of quality subcontractors and suppliers, we advertise the project in the plan rooms and the local media. We also maintain and utilize a database of prequalified subcontractors and suppliers whose performance has been exemplary, helping to deliver a high quality of work at the right cost.

Step 2: Interview and Prequalify Subcontractors

After advertising the project, we interview prospective subcontractors (if we are not already familiar with them) to determine their suitability for this project. We thoroughly examine their safety history, experience, and financial history. At this time, we also review scope letters to ensure the subcontractors are able to meet the demands of the project.

Our Advantage: Having served Hampton Roads for the last 29 years, we know the market and the subcontractors.

Step 3: Develop Bid Packages and Bid Tabs

Next, bid packages are developed and sent out to the prequalified subcontractors. It is our standard policy to receive at least three bids for each trade. Our pre-construction team also develops a bid tab, which is a form where we compare the various trades on an "apples to apples" basis. This allows us to demonstrate to the owner the most qualified subcontractor(s) for the project and ensures all work items are covered. We also keep a running budget that compares the buyout cost versus the budgeted value for that package.

Step 4: Select Subcontractors

Before a final selection is made, our project team extensively reviews the scope, schedule and pricing with each prospective subcontractors' principal. After a thorough review we, select the subcontractors who are the best fit for the job.

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