

### **ADS BUILDING NEWS**

### Specializing in Building Systems Design and Analysis

- ADS Forensic Engineering Services
- ADS featured in West Virginia Executive Magazine
- WVU Athletic Performance Center Design Renovation
- Morgantown Ice Arena Upgrades
- Beckley Fire Department Station #3
- Black Oak 2 Office Building
- Potomac Valley Hospital
- Cacapon Resort Addition
- Employee News

Visit our Website



Did You Know that ADS offers:
Forensic Engineering
Services?

## Forensic Engineering

Forensic engineering is the investigation of materials, products, structures or components that fail or do not operate or function as intended, causing **personal injury** or damage to property. We provide these investigative and assessment services to building owners, law firms and property & Casualty Insurance Industries.

As Structural and MEP engineers, Allegheny Design Services can offer expert investigation of failed systems. Our sister company— **CF Forensics** —is dedicated to provide our clients with comprehensive, cost-effective and fastidious claims settlement. Contact us today at cfforensics.com!

**Link to CF Forensics** 

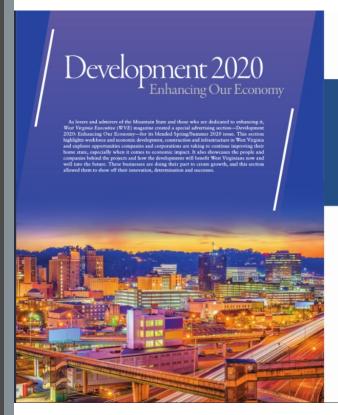


Click Below

### **ADS featured In:**

"West Virginia Executive Magazine Spring/Summer 2020 Issue"

**Development 2020 - Enhancing Our Economy"** 



Allegheny Design Services (304) 599-0771 www.alleghenydesign.com 102 Leeway Street, Morgantown, WV 26505

## Innovative Designs, Practical Solutions



David Simpson, PE, SECD, MRA. establishe Allegheny Design Barvioss (ADS) in 2002 is response to the region's lack of local shockurs engineering design access. Over the past it layers, he has but a small, agile term of rarin West Virginians who provide structural am enchanical, electrical and plumbing (MEP engineering services on a variety of projects including sports and recreastion, health care higher education, industrial, K-V2, government office and commercial buildinos.

More than 80 percent of ADS clients a repeat customers, and some of its notewortl patrons include West Virginia Universi (WVU), Mylan Pharmaceuticals, Mon Gene Hospital and many area architects. The ADS staff is per

"We've designed dozens of buildings in the region, but this was a great project because it was a design-build done in conjunction with March-Westin as the general contractor and The Throaber Goopu as the architect," says Simpson. "We performed the structural and MEP system designs. This project is a prime example of why ADS was established. A local design and construction team was instrumental in delivering the project on schedu and on budget. Our employees are all We Viriginia natives, with engineering graduate from WVU and West Viriginia Tech's Mon gomery campus. Our team gets a sense

The plan for the 106,000-square-foot, fourstory office building, located in the White Oaks Office Park, included high-efficiency packaged DX rooftop equipment, VAV units with the water heat from a modular condensing boiler system, a precision cooling server room air conditioning system and water conserving olumbing fotunes.

The \$35 million project also came wit unique challenges in meeting Leadership is Energy and Environmental Design, or LEEL standards, which measure a building's sus tainability and resource efficiency. Upo completion, the Dominion building was the first privately owned LEED Gold certifie

"I was in charge of the mechanical an plumbing design for this project," say Project Manager David Cotton, PE, LEEI AP, "This project had some unique energy goals to meet the LEEO certification. It has high-efficiently HVAC system, comforontrols, increased ventilation and outsit armonitoring, it also has a high-efficient condensing certification and series and the air conditioning is provided by central rooftop mourted unit with variab compressors, multiple compressor circuit and variable speed fare. On the plumbin object, there are natural gas condensing with the condensing with the condensity and the plumbing fittenes are highlighted to the condensity of the cond

"I was part of anything that had a wire onnecded to it." he says. "In terms of the highing and power, we designed using LED phting and polem, we designed using LED phting and lighting controls like occupancy in some single standards. The some some single standards. The bather ear of the building coupled with the LEDcount and single single standards. The bather some single standards. The single some single single

PECIAL ADVERTISING SECTION





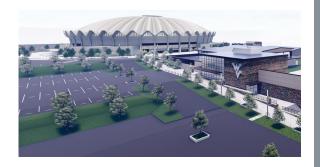
WVU Athletic Performance Center Design Renovation

#### **Architect:**

Omni Associates-Architects, Inc., Fairmont, WV Structural & MEP Engineers:

Allegheny Design Services, Morgantown, WV

ADS Structural & MEP Engineers are so proud to be on this wonderful addition to our community. The project consists of



converting the existing West Virginia University Natatorium into an Athletic Performance Center for Olympic Sports. The renovation areas consist of 25,650 SF renovation area and new spaces on level 2 - Performance Center Option 1, and 6,300 SF new spaces on level 3 – Performance Center. New spaces include 5,200 SF hydrotherapy training area, 2,500 SF cardio mezzanine, 3,800 SF player's lounge, and 9,500 SF strength and conditioning area. The Performance Center will become the home for strength and conditioning, training, rehabilitation and nutrition for all WVU Olympic sport programs. More than 400 student-athletes will benefit from the center and enhance WVU's commitment to compete at a national level.

The existing Natatorium will be converted and renovated to encompass a multi-level performance center in excess of 21,000 gross square feet.

In addition to new weight, training and rehabilitation rooms, the facility also will feature extensive cardio and plyometric areas, hydrotherapy and cryotherapy sections as well as locker rooms to become an all-inclusive home for WVU's Olympic sports. Multiple teams will be able to use the center at one time, alleviating scheduling concerns and providing time management flexibility in the areas of academics and team practices.

The facility will be used by the baseball, volleyball, gymnastics, rowing, golf, track and field, tennis, rifle, wrestling, swimming and diving, men's soccer and women's soccer teams.

## Take a Video Tour Link to WVU Coliseum Complex

"The Coliseum Complex phase of the Master Plan will connect existing and future facilities, renovate underutilized facilities and bring a consistent aesthetic to all the buildings and plazas"

- Coliseum Apron
- Olympic Sports Weight Room
- Olympic Sports Training Room













- Shell Building RenovationsShell Connector
- Interior Coliseum Upgrades

Pictures courtesy of WVU Sports











Coliseum - 50 Years!

### **MORE THAN TEN YEARS IN THE MAKING!**

The 14,000-seat WVU Coliseum was more than 10 years in the making, dating back to the late 1950's.....now it's Celebrating 50 Years!! Coliseum50.com

**Morgantown Ice Arena** Morgantown, WV



Architect:
Mills Group, LLC
Structural Engineers:
Allegheny Design Services, Morgantown, WV

The project includes renovations to the existing facility of approximately 30,000 SF and new approximate 24,000 SF. Renovation of existing ice arena with addition of new arena seating, locker rooms, private party rooms, public entry area with restrooms, concessions, and pro-shop, Level 2 restaurant and balcony, mechanical room, and studio ice arena.

Pictures courtesy of Mills Group, LLC Link to Ice Arena

# Beckley Fire Department - Station # 3 Beckley, WV







### **Project Architect:**

The Thrasher Group, Inc., Bridgeport, WV.

**Structural & MEP Engineers:** 

Allegheny Design Services, LLC, Morgantown, WV

**Contractor:** 

Swope Construction Company, Inc., Bluefield, WV

ADS is proud to be involved with #TeamThrasher on this great project for the city of Beckley. Project Scope:18,600 GSF, 1-Story, Fire Station Building Station #3 is located along the Beckley

Bypass. A New 3-story, 20' x 70' Training Tower. Approximate 8,500 SF PEMB Apparatus Bay and 2nd Floor Mezzanine in the Apparatus Bay. A Generator / Dumpster Enclosure. The new building houses the fire department, the code enforcement office, and a training tower. The main building is equipped with both meeting and training doors, four bay doors, and an emergency path to enter the bypass.

**Project Completion: July 2020** 

**Link to the Video** 

# Black Oaks 2 Office Building Morgantown, WV







Architect:
Mills Group, LLC
Structural Engineers:
Allegheny Design
Services, Morgantown,
WV

Project consists of a 3story, 30,000 SF Office Building. The building will provide 30,000 sq. ft of office and retail space on three levels.A multi-purpose third floor outdoor patio with a pergola offers great views. **ADS Structural Engineers** services included the design of the Helical **Pier Foundation** System.

Pictures courtesy of Mills Group, LLC

**Link to Black Oaks 2** 

Potomac Valley Hospital, Keyser, WV HVAC Replacement



## Potomac Valley Hospital HVAC Replacement

Our MEP Engineers have just started and are busy working on an engineering design for HVAC equipment replacement at the Potomac Valley Hospital, located in Keyser, WV.

**Potomac Valley Hospital** is a 25 bed critical access hospital serving the needs of Mineral County, WV and surrounding communities.

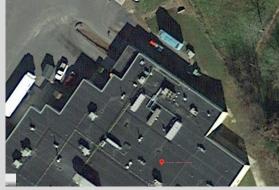
### What is a Critical Access Hospital?

To establish a Critical Access Hospital designation, a hospital must:

- Be located in a state that is identified to have a State Medicare Rural Hospital Flexibility Program
- Be designated by the state as a Critical Access Hospital
- Be located in a rural area or be treated as rural area
- Provide 24-hour emergency care services seven days a week
- Retain no more than 25 inpatient beds (beds may also be used for swing bed services)
- Provide acute inpatient care for a period that does not exceed 96 hours per patient on an annual averaged basis
- Demonstrate compliance with the Critical Access Hospital Conditions of Participation
- Be located more than 35 miles from any hospital or other Critical Access Hospital or be located more than a 15-mile drive from any hospital or Critical Access Hospital in an area with mountainous terrain

For more on our **Healthcare projects** experience click link below.

**MEP Healthcare Projects** 









Now that Summer is in full swing, check out the new addition and accommodations at the Cacapon Resort!

### **Architect:**

Paradigm Architecture, Morgantown, WV

### **Structural Engineers:**

Allegheny Design Services, Morgantown, WV

Coming to Completion, ADS & Paradigm are very excited to see the vision become a reality. Located in the eastern panhandle of West Virginia, Cacapon Resort State Park is available for both family vacations and business retreats, offering access to golf, lake, and camping activities. The facility functions as the main lodging and meeting center of the resort and offers a mix of hotel rooms and suites, and a conference center. The new addition provides an additional 79 guest rooms, swimming pools, new dining facilities and commercial kitchen, and a spa and fitness area. Additional renovations to the resort includes golf course upgrades, as well as water and wastewater treatment upgrades.

Pictures courtesy of Paradigm Architecture



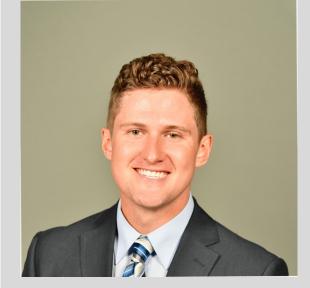












# **Brady Hillegas Structural Intern**

ADS would like to Welcome our newest family member as well as introduce him to all of you.

Brady attended West Virginia University and will be receiving his B.S. in Civil Engineering in August of 2020.

While at WVU, he was actively involved with Chi Epsilon, The Civil Engineering Honor Society, and was the President his senior year.

He has experience in construction, both labor and project management. Brady grew up in Bridgeport, WV before coming up to Morgantown for college.

In his free time, Brady enjoys hiking, mountain biking, skiing, and watching WVU Sports.





