



CONNECTIONS

Western Ohio Chapter • National Electrical Contractors Association



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April, 2024

ESI... *Children's Behavioral Health*

Construction is underway on the Dayton Children's Hospital \$110 million behavioral and mental health building in Dayton. The newly designed facility on the hospital's Valley Street campus will double the available space to for behavioral health patients by 2025. From 24 to 48 beds and bring behavioral health inpatient, outpatient and crisis service together under one roof ensuring smoother continuity of care.

Children's associate chief medical officer for behavioral health. One patient stood out to Blankenship, who

asked the child why they felt like life was not worth living. "They talked about some bullying at school, some over



Dayton Children's Behavioral Health facility

"The number one reason any child is actually admitted to Dayton Children's is thoughts of wanting to kill themselves," said Dr. Kelly Blankenship, Dayton

described how the child was admitted to Dayton Children's after overdosing on medication in a suicide attempt. During her interview with the patient, Blankenship

social media. They talked about some difficulties at home and, during the interview, started crying. And when I asked them

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Maxwell Lightning Protection

The Greater Dayton School is a new private school that serves a cross-section of under-resourced students in Montgomery County. Too many families in our community live near the poverty line while wanting something better for their kids. Single moms. Working poor. Parents who struggle to adequately advocate for their children, or provide them with the full breadth of resources necessary to set them up for adult success. The Greater

Dayton School at Deeds Point focuses on providing a comprehensive educational program tailored to the unique needs of each student. This may include specialized instruction, therapeutic services, and support for daily living skills.

Lt. Governor John Husted met with the Conner Group about five years ago to discuss the concept of this school. Larry Connor said he was convinced the idea was worth the effort because of

what it would do for the students. AJ Stitch, the Founding Principal stated that the way they teach is very, very, different.

The school will enroll grades PreK-8. Wraparound services include academic interventions, extended-day and extended-year programming, low student-to-teacher ratios (20:2), nutrition and fitness, counseling, and healthcare. The building is just part of the investment. The

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NECA/IBEW

The National Electrical Contractors Association (NECA) is a trade association that represents electrical contractors in the United States. It provides education, training, advocacy, and networking opportunities for its members, who are typically involved in the construction, installation, and maintenance of electrical systems.

NECA members range from small family-owned businesses to large corporations, and they operate in various sectors, including commercial, industrial, and institutional. The association works to promote the interests of electrical contractors, advance industry standards, and ensure the safety and quality of electrical work.

NECA also plays a role in shaping legislation and regulations related to the electrical industry, advocating for policies that support the interests of its members and the broader electrical construction industry. Additionally, it offers educational programs and resources to help electrical contractors stay current with technological advancements, safety practices, and business management techniques.

The labor force for NECA Contractors is supplied by the International Brotherhood of Electrical Workers, Local 82. Their superior training and safety record sets them apart in the electrical industry. Together NECA and IBEW have built and maintain the most important construction projects in the Miami Valley.

Maxwell cont'd

school has recruited teachers from across the country, started an 8am to 5pm model, bought its own buses to get kids to school on time and structured classes to allow teachers time



Greater Dayton School.

to focus on individual students.

Construction began in January 2022 by Daimler Commercial Real Estate Developer and Builder and included Moody Engineering, Curt Moody Architect, EDGE, Karda Nemeth and the Connor Group.

Lightning protection, both grounding and roof work for the building, was installed by Maxwell Lightning Protection, working with Claypool Electric. Jason Land was the Project Manager for the project.

Wapakoneta Wastewater Treatment Facility

The Ohio Water Development Authority (OWDA) has disbursed loans in the amount of \$82,731,290 for Wapakoneta's water reclamation facility's fifth phase of expansion. Water

reclamation is a process by which material traveling in the sewage lines are treated and then flushed into the river. The water leaving the system and entering the river, under normal circumstances, is

basically cleaner as a whole than the water already in the river. The facility in Wapakoneta processes 3.2 million gallons of wastewater per day.

Then why the need for another expansion?



Project Foreman Michael Coss.

As the city continues to grow, in both population and industry, so does its need for more water reclamation. The existing system, which has two combined overflows, sometimes becomes inundated with storm water

during heavy rains and storms. When this happens, there is nowhere for the water still undergoing

damage of the strike. The rods are generally spaced every 20 feet around a structure and 10 inches above the highest



treatment to go except to be prematurely released into the river.

The new expansion will mean there will be a permanent 6-million-gallon capacity per day, with the ability to receive and treat 12 million gallons per day, additional storage. During storm events, when the volume is too great, water will be pumped into those tanks to store until it can be processed.

Maxwell Lightning Protection was called in to render their services. According to Project Foreman, Michael Coss, "This particular job required a ground loop around the building, bonding to the electric, water, gasoline, steel and

communications to make everything common. That way when we installed the lightning protection everything would have the same potential. The best example is to think of a cage over the top of the building (like a Faraday cage) with lightning rods to take the

point. This was challenging and involved using lifts and scaffolding, and in most cases, a really good pair of boots."

For over fifty years, Maxwell Lightning Protection Company has been actively engaged as a U.L. listed and approved lightning protection contractor. In addition to lightning protection, they are specialists in cathodic protection, both sacrificial and impressed current; sophisticated high explosive area grounding systems, both underground and building interiors. Their services also include estimating, design and engineering. Maxwell works in the commercial market, as well as performing residential services.



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Your comments, suggestions and questions are welcome! Contact the Western Ohio Chapter - NECA.

website: www.wocneca.com
phone: 937-299-0384

Chapel Electric...Greene County Correctional Center

Last fall ground was broken on a \$76 million facility that will house a new Greene County Gene Fisher Correctional Center. The Center takes its name from the former county sheriff, Gene Fisher, who died in 2022 and spent much of his career petitioning for a new, improved jail. This new facility will replace the current county jail in Xenia which was built in 1969. The new Greene County jail building will be attached to the existing Adult

Detention Center, which was built in 2000. Currently, the detention center is used for minimum-security offenders.

In addition to the 482 total beds (100 more than currently available), the new facility at the detention center

will include new administration and coroner offices. Also, the new center will have space for mental health programs and other medical services, such as the county's Green Leaf



Greene County Correctional Center.

program that offers substance abuse counseling.

The new jail was designed by Wachtel & McAnally, a Newark, Ohio-based architectural and planning firm who have built

jails in 33 counties throughout the state.

The electrical subcontractor for the project is Chapel Electric. Their scope of work includes:

- Provide and install a complete power distribution system including two new primary services, two new standby generators, a new UPS system, switchgear, transformers, and panels and feeders/branch circuitry.
- Provide and install all new interior and exterior lighting and

controls.

- Provide all wiring and raceways for the security electronic contractor including wiring for door controls, intercoms, telephone control, lighting control and water control.

- Provide and install a new fire alarm system for both the jail and the sheriff's office.

Since 1946, Chapel Electric, an EMCOR Company, has provided state-of-the-art electrical and technology systems or construction; modernization and renovation; and 24/7/365 service and preventative maintenance. Chapel brings technical knowledge, experience, and resourcefulness to the delivery of their services. Chapel participates in all major market segments, including healthcare, education, commercial, sports, mission critical, industrial processes, and retail. Driven by a commitment to continuous improvement, Chapel embraces Virtual Design Construction, Green Building Construction and Lean construction methods to improve efficiency and enhance client value.

ESI cont'd

why they were crying, they said were crying because they were still alive. They wanted to be dead, and they couldn't believe that suicide attempt didn't work," Blankenship said.

In the past year, Dayton Children's saw more than 7,000 kids in a mental health crisis. In January of 2023 DCH saw 500 more patients treated for a mental health crisis than in the same month one year prior.

On average, it takes five weeks for a child to get in to see a therapist.

In March 2023, Dayton Children's had 211 children who had to be boarded on medical floors because there was no behavioral health bed available nearby. This is the highest number of children the

hospital has had to board in one month – 31% higher than March of 2022.

One in twelve kids who do end up in Dayton Children's behavioral health unit will return within 30 days.

The construction is being performed by Danis Construction with Champlin as the architect of record.

ESI Electrical Contractors are the electrical subcontractors for the project. Their scope of work includes emergency backup from the existing facility, normal power service from an extension of the existing medium voltage loop, all branch power and lighting, data, security, paging, nurse call and CCTV.

Due to the nature of the project, it involves many

unique installation methods related to behavioral health facilities and the high risk anti-ligature protection systems required. Access controls and CCTV are quite extensive in the facility with over 275 card readers and over 200 cameras. According to Precon Manager/Estimator Ben DeHart, "We were able to save over a million dollars by redesigning the emergency power feeder and by utilizing ESI owned transformers for temporary power in lieu of renting them and charging them to DCH."

The statistics are staggering concerning mental health issues with young people. The new facility will provide the much needed help for recovery to those in need.

However, the bigger challenge of social media influence and the toll it is taking on our youth is something our society as a whole must address.

Since 1966, ESI, Inc. has been providing industry-leading electrical construction services across Ohio and the surrounding region. Their expertise in design-assist, estimating and preconstruction helps them exceed their customers' expectations by safely completing projects on time and within budget. With locations in Cincinnati, Cleveland, Columbus and Dayton, ESI is a proud partner in growing and developing communities across the region.



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Studebaker EquipmentShare

Construction has begun on the newest addition to an 85-acre industrial park on Trotwood’s east side. Columbia, MO construction services company recently purchased nearly 12 acres of vacant land to build a 12,500 square foot service and sales facility, bringing 25 jobs to the area. This is the third EquipmentShare location in Ohio.

EquipmentShare offers a wide range of equipment, such as general rental equipment, aerial lifts, heavy dirt equipment and power solutions.

EquipmentShare’s rental fleet features next-generation equipment from brands like Genie, Takeuchi and Doosan. Their fleet includes track loaders, forklifts, telehandlers, generators and



everything in between, but it’s their T3 technology that provides value beyond the rental with GPS tracking and security keypads.

Studebaker Electric is the electrical subcontractor for this project. According to Kole Smith, Owner/Project Manager, “Our scope of work includes complete service power, parking lot lights, EV chargers, receptacles and all lighting.”

Studebaker Electric has spent more than 60 years providing electrical services to the businesses and individuals of Ohio and the surrounding vicinity. In 1953, Carroll Studebaker founded Studebaker Electric as a service provider for high end residential and small commercial businesses. In 2021 the Studebakers sold their Company to Bill Kohl and Kole Smith.

Large or small, telephone wiring to high voltage, Studebaker Electric has you covered. They possess the necessary experience, tools, and equipment to accomplish



quality results in all areas of the electrical field. Our managers and estimators are available to take your calls twenty-four hours a day.

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