



**ROMAN  
ELECTRIC  
CO., INC.**

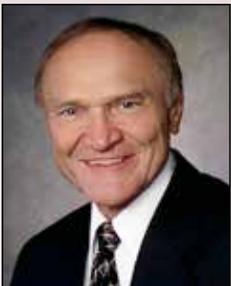
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**“COMMENT”**

*“It was a pleasure for us to help upgrade the historic Immanuel Presbyterian Church. The congregation put an addition on its 139-year-old building in which we installed power and lighting. We also upgraded their service and installed new LED lighting in and outside the church.”*



**Gerv Rose  
CEO**

# CURRENT

Electrical Construction and Communication  
Network News for Business and Industry

## events

### Amazon Builds Huge New Distribution Center In Kenosha With Major Assist From Roman



Amazon.Com Inc. recently completed a huge new distribution center in Kenosha just east of I-94 about 30 miles south of downtown Milwaukee. The Center is composed of two buildings with over 1,700,000 sq. ft. of space and an assessed value of \$170 million.

Clayco, general contractor on the Center, completed the 519,000 sq. ft. sortation building first. Roman Electric was the electrical contractor on the sortation job. Phil Rose, Roman President, managed the project.

Phil said Roman had a crew of up to 30 electricians working seven day, 80 hour weeks, to keep up with the aggressive schedule. Roman suppliers were on board to rapidly get materials to Roman. Then Roman used its prefabrication capabilities to manufacture systems and assemblies in the shop and quickly ship them to the job for installation.

Because there was 6' of frost in the ground when the job started, Clayco poured the building's concrete floor before pouring footings and the outside 25' of floor. That gave Roman the opportunity to start quickly and manage the fast pace.

Roman powered the new building with three 3,000 amp services and lighted it with 600 high bay energy-efficient fluorescent fixtures. The 40 ft. high one story building is completely air conditioned with 24 20-ton AC units on the roof. Site lighting is provided by over 100 metal halide fixtures.

The vast interior of the building has no racks, just mechanized conveyors leading to 105 hydraulic docks around the perimeter of the building. Products are delivered to the other larger warehouse building where they're sorted and stored.

As orders come in, products are picked from the shelves in

*The building was constructed on a very aggressive timetable from June to October. Roman crews worked seven days a week, 80 hours per week.*

*This 519,000 sq. ft. building, filled with conveyors, is used by Amazon to organize and deliver products to its 105 docks for shipping. It is connected to the larger warehouse at the far right.*

the larger building and sent to the sortation building. There they are packaged with other parts of the order and sent to a designated dock where the shipper can pick up orders going to a specific location.

As Roman got closer to completion, Amazon began adding other components. Included were power and feeders for the conveyor equipment, pathways for security and telecom systems and a 500 ft. connector bridge between the two buildings.

“We really felt we were on top of the job,” Phil Rose said. “As we neared the middle and

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## Elegant Church Increases Capability With Two-Level Addition



*The interior of Immanuel Presbyterian Church now has a new system of LED lamps which improved lighting, programming and controls while reducing electrical cost by around 40%.*

Immanuel Presbyterian Church, the oldest congregation in Milwaukee, marked its 177th anniversary this year with a two-story addition. Constructed at the southeast corner of the building, the addition matches the exterior of the original, which was built in 1875. It was added to the National Register of Historic Places in 1974.

General contractor on the job was Berghammer Construction. Roman Electric handled the electrical work.

*The church exterior has a new entrance at the left, accent and site LED lighting, and a new parking lot.*



*The addition to the church, at the right, made of the same limestone, red and gray sandstone and Scottish granite, looks just like the original, built in 1874.*



accessed through the attic and retrofitted with recessed LED can lights.

In the chancel and choir loft area Roman installed LED horizontal strip lights to highlight the ceiling, and vertical LED spots and floods to accent specific features on both sides of the chancel. With banks of dimming controls, all lighting can be adjusted to yield the

*Continued on page 4*



*"If you're like us, you're always looking for new ideas, better methods and new business."*

### CURRENT events

*is one way we can show you building developments, new power systems, information technologies, skilled techniques, useful ideas. We want you to remember Roman Electric when you're ready to build or repair electrical systems, computer networks, and voice/data installations."*

# CURRENT trends

## As Benefits Grow, LED Lighting Use Increases

In new construction we're seeing a lot more use of LED lighting. Plus firms upgrading commercial and industrial lighting are more often choosing LED systems.

When they first came out, LEDs were only available in the traditional forms and fixtures. But designers began creating fixtures and systems specifically for LED lights. Now we're seeing efficient systems and decreasing prices so that in a few years LEDs will be competitive with fluorescent systems.

Twenty years ago we put in high intensity discharge systems. Then 10 years ago we began replacing them with high efficiency fluorescent systems. Now we're starting to replace some of those with LED systems.

Change took time because

of the cost and development of technology. One major change was the development of the prime blue light needed to create the new white LED light. It allowed us to go from LED color lights to efficient natural white light.

Major benefits are that LEDs love the cold while fluorescents hate it. And LEDs have long lasting light. They offer lifetimes in excess of 100,000 hours while metal halides and fluorescents have lives of only up to 20,000 hours.

LEDs also offer much greater control because they give you a point source as opposed to the linear source you get with fluorescents. LEDs have small point sources and you can aim each one. So LEDs give you large arrays of point sources and you can aim each point where you want it to go.

day. Their quality was wonderful. They're a very safety conscious company. No problems at all. Just a pleasure to work with them. Phil Rose was the project manager, Scott Hobus was onsite superintendent, foremen were Rod Peasley and Brian Pollack. We'd definitely use them again."

Andrew Christoff, Clayco project manager, had similar feelings. "Roman was outstanding! I couldn't have asked for a better contractor. They had a humongous task in front of them, they worked with an aggressive owner, and we're an aggressive contractor.

"They took the initiative, loaded up the manpower that was necessary and met some really aggressive timelines. They overcame a lot of challenges that were not their fault and took the initiative to come up with solutions on how to get things fixed. They were great. I would use them again in a heartbeat."



*Wheaton Franciscan Health Care – All Saints in Racine cleans its surgical tools in a specialized facility well lighted with LED lay in panels installed by Roman Electric.*

Now manufacturers are coming out with high intensity LEDs with very bright light sources that can be delivered much more efficiently. In some cases you can get 100 lumens of light per watt from an LED. Because you get more lumens per watt and much better control, you can often replace existing lighting with LED fixtures yielding more lumens at half the electrical cost.

There's also a whole new world of controls and dimmers. LEDs are much easier to dim than metal halides or fluorescents. And there are many controls available to do it. For example, in a classroom we used to install fluorescents with switches so users could turn some off and have two levels of lighting. We could also add oc-

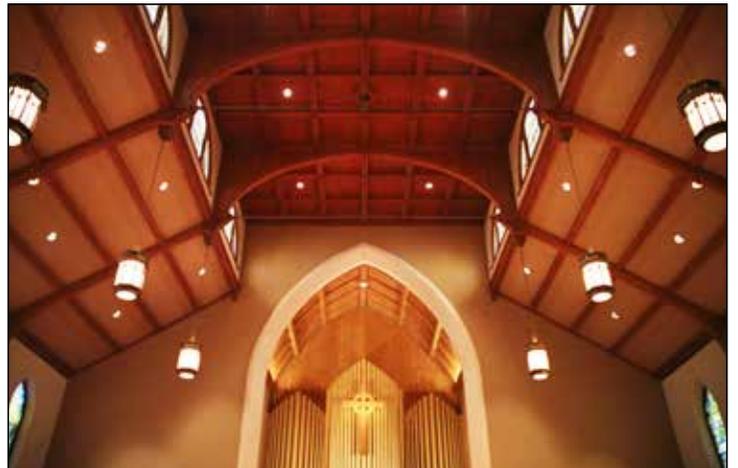
cupancy sensors so lights would turn off when no one was in the room.

With LEDs, we can put in remote dimming relays, wireless dimming controls to increase or decrease light in specific areas, occupancy sensors to turn off light in empty rooms, and daylight sensors to automatically dim light when there's enough natural light. And it's easy to do with LEDs equipped with these new breeds of wireless sensors and basic controls.

Plus you have excellent color control and lighting providing up to 90% of natural daylight. With light systems that will only need to be replaced by the next generation of electricians.

Call us to learn more about increasing light and reducing cost.

*Lighting renovation by Roman Electric at Immanuel Presbyterian Church included LED horizontal strip lights, vertical LED spots and LED floods to accent specific features. With banks of dimming controls, all lighting can be adjusted to yield the light desired for each activity. The improved lighting system reduced wattage consumed by about 40%.*



## Amazon Building Goes Up Quickly

*Continued from page 1*

realized how fast the project was going to go, we geared up and really took a run at it. I think this is a case where we have a customer very pleased with what they ended up with and very happy that we met their deadlines."

John Biggart, Clayco Project Superintendent, said, "It was a very aggressive schedule. Roman really stepped up to the plate on the sortation building and got it done. It wasn't an easy task in the amount of time they had. They were professional throughout. All their field guys and their office. They jumped through some big hoops to get the job done on time and get Amazon into their building.

"We and Roman worked seven days a week, 12 hours per



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## Individual Electricians Featured On Service Truck They Drive

To better serve customers, Roman Electric will soon add 12 more service trucks, expanding its service fleet to 65 trucks.

Roman believes employees

are so important that they put each service truck driver's photo on the truck they drive. So you'll see 65 electricians if you look at all the service trucks.



*Roman electrician Ben Schiller is shown in and on his service truck.*

## Elegant Church Has Beautiful Addition

*Continued from page 2*

light desired for each activity. The improved lighting system reduces wattage consumed by about 40%.

The lower level is lighted with fluorescent U tube lamps and fluorescent lay in tubes in the four classrooms. Outdoor lighting includes accent LED spotlights illuminating the stone columns, walkway bollard lighting and LED pole lamps in the parking lot.

Senior Pastor Rev. Deborah Block said, "The finished job is beautiful. Roman did everything in the new construction from the parking lot lighting to the upgraded sanctuary lighting. We loved Roman!"

"They were here from the beginning of the project 'til the end so we got to know them well. They were great to work with and very responsive to project needs. There would be complications, changes and additions and they always came through."

Pat Konkel was Berghammer job superintendent and Matt Iwanski was Berghammer project manager. Roman foreman was Paul Courtney. He began his electrical apprenticeship with Roman in 1982 and has been with the contractor since then. 