

Wright-Patterson AFB Medical Center Renovation



US Army Corps
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Joint Venture

HKS/WS



The Medical Center Complex at Wright-Patterson Air Force Base is undergoing a major renovation.

Water Outage goes off without a hitch

The whole hospital water outage was conducted on June 20, 2014 after normal business hours. A joint effort between USACE, the Walsh Butt Joint Venture, facility personnel and the medical center maintenance contractor (Emcor) resulted in a successful completion of the outage.

The main push for the outage was driven by the need to install new 3" and 4" ball valves in the mechanical space adjacent to and accessed through the Central Sterile department. These two valves had held up completion of scheduled work in the General Surgery department. Emcor took advantage of this outage to perform their own maintenance work by replacing valves in areas outside the scope of the hospital project. Nash Mechanical replaced the 2 defective wing valves serving the South Wing, along with installing the Food Service valves and tie-in installations. The outage was scheduled for 12 hours but the work was completed in about 8 hours. During the outage temporary sanitary facilities which included, sinks, hand wash stations and portable toilets were provided in multiple locations.

"The joint effort between the team members resulted in a highly successful outage that benefited the project and the medical center facility as a whole," said Jeremy Cobb, USACE Resident Engineer.

General surgery outages have all been completed to date and construction activities are moving along towards the finishing stage.

"The building-wide water outage to support the construction in the General Surgery Clinic was an unmitigated success," said Andy Shirey, Facility Manager.

"The entire team, along with the Medical Group clinical staff, worked together to ensure everything was prepared for this building wide outage. The MDG maintenance contractor worked hand and hand with the JV to ensure water was shut-off, and also worked several other plumbing issues during this time, both working to complete as many repairs/connections as possible during this outage. Everyone's hard work not only completed the work on time, but went a long way to making this a "non-event" to the patients, and clinical staff."

Partnering Mission

We, the Med Center Renovation Team, are committed to work together safely and effectively to renovate the WPMC to meet the current and future "train, treat and teach" requirements of the 88th Medical Group and its patients. We will use industry best practices and stealth construction to meet the project objectives on schedule, within budget and with minimal disruption to the center's mission of delivering world-class patient care.

Mark your calendars!

SAG Meeting
Thursday
Sept. 4
8:30 a.m.

(Gov't only: Sept. 3
1:00 p.m)

By the Numbers

By Matt White, Walsh Butt Joint Venture

It is often easy to track a project “by the numbers” when using metrics that are industry standard or commonplace in the management of a project. Numbers such as dollars, or changes, or RFIs, or square foot, or even number of days says a lot about a project. When you look at the Medical Center renovation project you can evaluate the size, type, or complexity with those numbers. The largest military construction project currently in the Louisville District, the JV has made more than 1,000 formal requests for information to clear up the way forward for the team; 280,000 square feet and more than 1,000 calendar days to complete are examples of measuring a project.

There are a lot of other numbers on a project that are interesting to know but may or may not be of any value. For instance, there is enough new wiring on this project to stretch from Dayton to Columbus four times (over 1.5 million LF). There is over 450,000 lf of metallic conduit on this project...that is 85 miles of conduit.

Did you know that there is enough new carpet in this project to fully carpet 50 typical homes? If you stacked all of the 12”X12” Vinyl Composite Tiles (VCT) on top of each other, the stack would be 361 feet tall.

There are over 2300 new light fixtures in this project, 80 new exit signs, and over 800 new doors and over 1400 total doors that have been touched on this project which equates to over 4200 hinges with over 34,000 screw holding those hinges on.

Did you know that there are over 300 new plumbing fixtures? Showers, sinks, toilets...connected by existing or the 24,000 lf of new sanitary piping. There is enough domestic water pipe, which if on average of 1” diameter pipe, that the new water distribution system that the project has added or renovated, could hold at any one time, over 1,000 gallons of water.



Brian Boulton (left) from the Defense Health Activity walked the construction site with (left to right) Kevin Jefferson, Gary Stevens, Jeremy Cobb and Paul Hanreeder.



The swing space trailers have now moved out, making room for future additional parking on site.

How about the little grey “sticky” mats that you see in front of all the renovation areas? There have been over 100,000 individual mats placed and ripped off through the course of the project. Each one of them is 2’X3’ and if all placed side by side, would be the same square feet as 14 football fields...that is one big fly trap.

A new Chevy truck weighs 4,600 pounds. Subtract the tires, glass, interior, plastic, and other non-metallic items and you end up with around 3,700 pounds of steel and aluminum.

The amount of new ductwork incorporated into this project is the equivalent of 70 new Chevy trucks.

Finally, there are the man hours that have been spent to perform this work. Currently over 430,000 man hours that will most likely exceed 500,000 for the project. That is the equivalent of 240 workers having a job for one full year or what we’ve seen on this project, around 80 workers working full time for 3 years.

Kitchen Update

The food service/kitchen construction activities are currently in progress and include the installation of the grease exhaust duct, which serves the kitchen exhaust hoods, electrical, plumbing, drywall, and terrazzo flooring work.

The flooring contractor has been working diligently to repair weak areas in the concrete floor surface to accommodate the Terrazzo finish flooring. Installation of hard ceilings in the lockers and restrooms is beginning the last week of July. A new heat-traced and insulated grease waste line, which drains to the new grease interceptor outside the rear dock, has been installed. Inspections have been completed and infilling the trench with concrete will begin July 28.

PDT Member Spotlight

Tim Lowing, Night Superintendent/SSHO, Joint Venture

What is your primary role on the job?

Safety, management and quality control of four crews of subcontractors and the JV night crew. My time is divided between safety and management of the crews. As SSHO I am responsible for safety inspections, looking for violations and corrective actions. I am also responsible for the coordination of subcontractors and supervision of the JV night crew. The night crews work in the clinics that are open during the day, so we come in set up the ICRA do the necessary renovations, cleanup and have the clinic ready for patients the next day.

What successes have you seen on the project recently?

We have just completed the renovation of the Med Center Chapel area.

What hobbies do you enjoy when you aren't on the jobsite?

I enjoy traveling with my family to historical sites such as Colonial Williamsburg, Gettysburg and Mount Vernon.

Safety Update

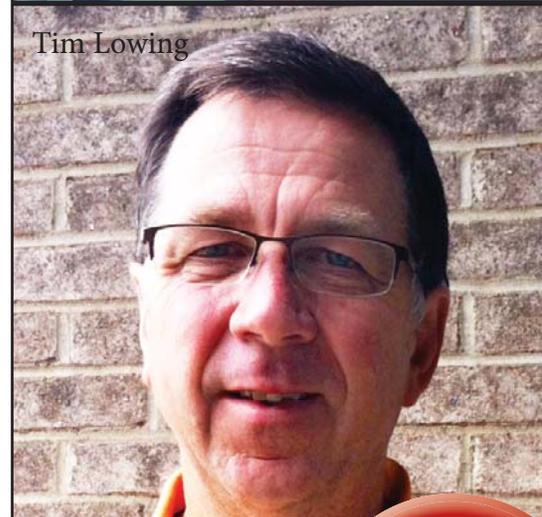
- The JV has accelerated their efforts in doing documented job site safety inspections.
- JV has challenged all levels of supervision to be more diligent in their responsibility to complete job site safety inspections.
- By the JV reinforcing positive behavior and correcting unsafe acts or conditions they have improved the safety culture and helped to create a safer work place for the workers and every patient, staff or visitor to the Medical Center.



Food Service Area



Food Service Area



Tim Lowing

Workplace
safety is our #1
priority!

**Safety
Spot**

Think smart before
you start