

World

OCTOBER 2011

# FENCE NEWS

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**Long-time Commerce City, Colorado commercial fence contractor Metro Fence Company, Inc.** is well versed in the complexities of high security fence and barrier installations, but a project at the FBI regional field office in Denver takes the cake.

From its regional offices, the FBI investigates federal crimes ranging from terrorism to gang activity, which makes it critical that the perimeters of the locations be hardened to the maximum.

Metro Fence Company president Vernon Knorr notes that the Denver project involved installing approximately 2,500 lineal feet of Department of State anti-terrorist crash rated fence, along with numerous crash rated bollards, crash rated entrance/exit hydraulic wedge barrier systems and automated gate systems throughout the project site.

According to Knorr, the project started off with 15% drawings in September of 2007, 30% in May of 2008, 60% in December 2008 and, finally, 100% in March of 2009. Each of these milestones required numerous proposals and re-quotations from many suppliers and conceptual revisions that changed often. Knorr estimates that they proposed and priced upwards of 40 to 50 designs before one was accepted.

"We entered into contract negotiations with Bovis Lend Lease of Nashville, Tenn. in April 2009 and came to final agreement to scope and

## Overcoming complex array of issues critical to success of FBI regional field office security fence installation



The main gate entrance and guard shack at the Denver regional office of the FBI. At right, a gate and gate operator typical of the high security installation.



site preparation and multiple subcontractors that required several cranes to work around the structures on the tight, congested site.

terms in mid-June of 2009," he said. "Contract items totaled approximately \$1.3 million, and the project had a total duration of approximately 240 calendar days. The fence design was provided by architect Skidmore, Owens & Merrill LLP of Chicago."

**On site installation started in late August 2009.** There were numerous delays to the start time due to the

merous release forms, and this was followed by fingerprint submission and a full background check that could take days to complete," he said. "Everyone entering this site, including delivery truck drivers, concrete truck drivers and rental equipment companies, had to go through this process. Once these background checks passed, deliveries had to be scheduled two to three days in advance.

"Once on site, at the entry gates the delivery vehicles were physically inspected before being allowed on site with a badged employee driving," he noted.

The design that was accepted for this anti-terrorist fence has very specific installation parameters due to Department of State criteria. No deviations were allowed if a

maintained. This was from post installation conditions, possibly cable in the ground. The door of the

on requirements conflicts with un- systems, Knorr said. had to be installed to post locations or moved post locations. It is not common that the fence takes priority over all other systems,

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**Look Inside for the Latest News on HySecurity's New StrongArm M30 Operator**

### INSIDE THIS ISSUE OF WORLD FENCE NEWS

Fencer's Field Report • Creating a fence by model, by Tom Luby  
Tackling the topic of back by Jim Lucci  
Through the years with WFN • from around the country

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## Weldon Industries sees long-anticipated western expansion become a reality

Weldon Industries announced that its much-anticipated western location has become a reality with the purchase of a 20,000-square-foot, state-of-the-art facility in Orem, Utah.

“This is one of the most exciting steps our company has taken in its history and will allow us to even better service our customers,” said Stephanie Belair, customer service manager at Weldon Industries.

Company president Mark Weldon added, “The most exciting part of the new facility for me is the flexibility we have to expand the location by another 50 percent in the very near future.”



*Weldon Industries has expanded its western presence with the purchase of the 20,000-square-foot facility in Orem, Utah, shown above. The company said it plans to expand the location in the near future. (Weldon Industries photo)*

“The new facility is practically in my backyard, and I know with this location it will help us make our West Coast customers more profitable and more competitive than before,” commented Heath Jolley, western sales manager.

“The new location makes Weldon Industries one of the only hardware suppliers in the industry that is growing. We thank all of our loyal customers for their role in helping us achieve this growth,” stated Steve Voss, Weldon Industries general manager.”

Weldon Industries is a leading manufacturer and provider of hardware in chain link, wood gate, vinyl/PVC gate and ornamental, with over 2,000 parts in its product line.

Headquartered in Tampa, Fla., the company operates from a 75,000-square-foot, state-of-the-art, eco-friendly warehouse which enables the company to provide customers with same day bundled shipments.

Weldon Industries can be contacted at 813-248-9800 or at [sales@wioem.com](mailto:sales@wioem.com).

### HySecurity StrongArm M30 earns highest crash rating

Sweat poured off David Younce’s forehead in Southern California’s high desert blazing summer sun on Aug. 9. Younce hadn’t slept much the night before, tossing and turning, knowing that today would successfully cap a year-and-a-half’s work, or ...

That day marked the crash test of HySecurity’s new StrongArm M30 barrier arm, which was Younce’s “baby.”

He was the project mechanical engineer and led the project engineering. Through design and phase reviews, customer redirects that slowed and changed the project scope, multiple prototypes and the final Alpha test model, Younce had spent most of his waking hours working alone and with the project team for 18 months to

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**StrongArm M30 barrier arm earns highest crash rating**

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design a better M30 fortified crash barrier arm.

In a few seconds, hundreds of hours of work, Younce's reputation and the reputations of others, and a very large HySecurity investment could be lost in a pile of StrongArm M30 rubble and a runaway 15,000-pound truck that passed through the expected impenetrable barrier. These and more anxieties crossed Younce's mind as he methodically assembled the test operator and watched the lab technicians take their measurements to document the trial. Chief engineer Steve Carlsen stood by.

Then at precisely 10:15 a.m., a GMC 7000 truck loaded to weigh 15,000 pounds was sent on a 30 mph collision course with the closed 12 foot StrongArm M30.

"I tried to watch, to see the details," said Younce. "It was too much. All I could take in was whether or not the truck penetrated. If it had gone wrong, it would have been on me. I was hugely relieved – it stopped. This is a huge step for HySecurity in our first crash product."

Carlsen noted that HySecurity had



The GMC 7000 vehicle weighing 15,000 pounds is staged prior to the actual crash test. (HySecurity photos)



The StrongArm M30 halted the vehicle from 30 mph in less than 1 meter, earning it the highest M30 rating possible: P1, the company reports.

overbuilt the machine to the degree that outside reviewers urged them to test it at M40 (K8). "The test machine sustained so little damage that the posts will be refurbished and used as a

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## New Jersey Eagle Scout's project benefits teen support facility

Kyle Scanlan of Eagle Scout Troop 59 in Toms River, N.J. recently completed his final project, and what a project it was. Along with a number of friends, troop members and donors, Scanlan replaced an aging fence at Ocean's Harbor House, a safe haven for teenagers in crisis.

Scanlan told the Toms River Times that when he heard that the good spirited organization was in need of help, he knew it was the right thing to do.

The volunteers constructed the new 160-lineal-foot vinyl fence using materials donated by Interstate Wood and Vinyl Products. Safeguard Fence Co. delivered the materials, and gen-

eral manager Frank Aitoro III, installation manager Gerard Roussell and foreman Jose Elise assisted with the installation and oversaw the work to be sure it was done right.

Scanlan is a senior at Toms River East High School, and plans to study biomedical engineering in college. He has been in Scouting for 11 years.



These proud volunteers and donors replaced an aging fence at Ocean's Harbor House with a spanking new vinyl fence. Ocean's Harbor House serves as a safe haven for teenagers in crisis, and is located in Toms River, New Jersey.

## StrongArm M30 barrier arm earns highest crash rating

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working trade show operator," he noted.

In fact, StrongArm M30 earned the highest M30 rating possible: P1, indicating that the truck had penetrated less than a meter.

According to Younce, site technicians said that the crash was extremely "soft," and that the arm had slowed the truck so much that very little debris spread far from the point of impact. That was highly unusual, they said.

Brian DeNault, HySecurity president, lauded the work of his engineering team before and after the crash test.

"We're getting used to platinum performance from our engineers," said DeNault. "This puts HySecurity in a great position as we introduce two to three new products a year, each with its own 'wow' factor."

DeNault said his confidence was strong enough that he didn't attend the test.

He added that with the success of the StrongArm M30 testing, they have begun filling a sizeable backlog of orders. The company will introduce a crash wedge and several non-crash products beginning in early 2012.

For more information or to place an order, call 800-321-9947 and ask for sales or go to [www.hysecurity.com](http://www.hysecurity.com).



This photo shows concrete reinforcement being poured into the StrongArm M30 foundation. The crash test capped 18 months of design and development for HySecurity's first crash product.



A backhoe is used to excavate where the extremely heavy duty base of the StrongArm M30 will be installed.

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