

# THE STAINLESS REBAR STANDARD



Kevin Cornell, Editor      December 2010

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## ***Relocation and replacement of Caminada Bay Bridge with stainless steel deck***

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Katrina's legacy is long and deep. Damaged during the storm, relocation and replacement of Louisiana's Caminada Bay Bridge became a significant state project. To extend the service life of the bridge on LA Highway 1, high performance concrete and large quantities of stainless steel reinforcement were specified to give the bridge strength and durability.

The new 3945-foot long bridge is located approximately 60 feet north of the structure to be removed. Keeping the old bridge open while building the new one allows a continued free flow of traffic onto Grand Isle. The new bridge has two 12-foot lanes, 8-foot shoulders on both sides, and a 6-foot sidewalk.

The lower section of the bridge is designed for hurricane storm surge forces. It has a vertical clearance of approximately 45 feet and a 120-foot horizontal clearance between piers allowing bigger boats to pass underneath.

The contractors for the bridge construction are F. Miller and Sons Inc. and Johnson Brothers who are assembling the stainless rebar reinforcement on site.



Photo: F. Miller and Sons Inc.

CMC Rebar, Pearl River, LA has ordered 1,689,000 pounds of Type 2304 stainless steel rebar for this project.



Photo: F. Miller and Sons Inc.

Photo: Johnson Brothers



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## ***Surrey BC Opts for Stainless in Tynehead Overpass***

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Rendering of Tynehead Overpass  
Source: <http://www.surrey.ca/city-government/6836.aspx>

The City of Surrey, British Columbia in Canada is building a recreational Green Network to facilitate the movement of pedestrians and cyclists in the city center. In addition to being a bicycle way, the Green Network incorporates natural habitat enhancement, sustainable stormwater management, placemaking through public art and historical markers, wayfinding, and street furniture.

It is apparent that the City has incorporated the notion of sustainable development into its planning and infrastructure construction. The Tynehead pedestrian overpass that connects the Tynehead Regional Park south of Highway 1 and the Surrey Bend Regional Park north of the highway is a sustainable project that incorporates stainless steel reinforcement with concrete elements.

The \$5.5 million overpass is 120 meters in length, with elements reinforced with XM-28 stainless steel. XM-28 is a Mn substituted austenitic grade (also known as Nitronic 32). The alloy is a non-magnetic stainless steel which is superior in strength and corrosion resistance. Heritage Steel was contracted for reinforcing steel fabrication services including supply and fabrication. Designed by Associated Engineering Limited, the bridge is part of the largest ever bicycle expansion program underway by the City. It is funded in part by the Build Canada program which requires construction to be complete by March 2011.

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## ***SSR is now using aSa for most business functions***

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Salit Specialty Rebar is pleased to report that we are replacing our older computer-based inventory, and financials system with aSa (Applied Systems Associates). We have been implementing the new system in stages, and hope to be completely up and running on the new system the beginning of November.

Not only will our inventory be bar-coded for easy physical counts, but we will now be able to track each piece of material from shearing to loading on the truck. Heat number traceability will be a cinch, and optimized shearing runs will cut down on our scrap.

Salit Specialty Rebar has always taken pride in providing first class service for our customers, and aSa will enable us to continue to do so, by streamlining and improving efficiency in many aspects of our business.

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## ***Salit Specialty Rebar welcomes Michael Cornell***

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Michael Cornell is the latest addition to the Salit Specialty Rebar Family. Having graduated from Elmira College in 2007, and then working for Barker Steel, as well as Valbruna Stainless, Michael brings his knowledge of the aSa system to SSR. In addition to inside sales, Michael is assisting in the planning and implementation of an expansion with a Stema Pedax Twinmaster III.



## ***SSR Expands Capabilities with Stema Pedax Twinmaster III***

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Salit Specialty Rebar has recently purchased a Stema Pedax Twinmaster III. This machine is an automatic twin-strand stirrup-bending device that is going to allow SSR to manufacture stirrups and bend bars at a faster rate, along with straightening rebar from coil.

Stema Pedax's headquarters is located in Kvistgaard, Denmark, while its main production plant in Bitburg, Germany. Stema Pedax has been making rebar manufacturing machines since 1926. The company introduced the first automatic stirrup bending machines in 1984, featuring high performance and easy operation.

The machine is scheduled to arrive in Niagara Falls, NY in the beginning of March 2011. The machine will allow SSR to manufacture at a faster rate to better-serve customers.

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## ***Sakonnet River Bridge Substantially Completed***

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Salit supplied 1,557,910 lbs. of 2205 Duplex rebar for the Sakonnet River Bridge  
Photo: Barker Steel

Stainless steel supplied by Salit Specialty Rebar was specified for the new Sakonnet River Bridge that spans the Sakonnet River in eastern Rhode Island.

Groundbreaking for the 2,265-foot-long, 96-foot-wide four-lane bridge took place in April 2009. The bridge is expected to open in 2012. Rhode Island-based Commonwealth Engineering and Consultants is the lead designer. Cardi Corp. won the bid to build. Barker Steel LLC (a Harris Rebar Company) received the steel shipment from SSR.

By November 2010, the contract for installing the stainless steel reinforcement was substantially completed. Salit was chosen to supply 1,557,910 lbs. of 2205 Duplex rebar cut to length and pre-bent, based on the location of its facility in Niagara Falls, NY in close proximity to the job site, and the ability of Salit Specialty Rebar to meet volume demands and fabrication requirements.

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## Upcoming Events 2011-2012

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### **World of Concrete**

Las Vegas, Nevada  
January 18 to 21 2011

### **The Precast Show (NPCA/ACPA)**

Charlotte, North Carolina  
January 27 to 29

### **Bridge Safety and Longevity Conference & Expo**

Ottawa, Ontario  
April 14 and 15

### **Concrete Reinforcing Steel Institute Annual Conference**

April 30 to May 3  
TBA

### **2011 International Bridge Conference**

Pittsburgh Pennsylvania  
June 5 to 8

### **2011 PCI Annual Convention/Exhibition & National Bridge Conference**

Salt Lake City, Utah  
October 22 to October 25

### **WE'LL BE THERE! – BOOTH N3115 WORLD OF CONCRETE Las Vegas, NV**

WOC is the industry's only annual international event dedicated to the commercial concrete and masonry construction industries showcasing leading industry suppliers featuring innovative products, technologies, tools and equipment and unlimited networking opportunities to give you new ways to sustain and grow your business in a changing economy...January 18 - 21

