

Steel Systems Serves the Mid-Atlantic with Custom Design and Quality

by Jon M. Casey

When New Enterprise Stone and Lime (NESL) began the planning process for the creation of a new primary circuit at the Martin Limestone-Burkholder Road facility, they teamed up with Steel Systems of Quarryville, PA for the design and installation of their new plant. Jeff Detweiler, NESL Production and Development Specialist, said that he and several of Martin's management personnel worked closely with Craig V. Gartzke and Rick Welch of Steel Systems, to design the new plant for present and future needs. The relationship between NESL and Steel Systems has gone back many years, and they have come to rely on Steel Systems for custom design and fabrication work as well as equipment installation and start-up.

"We have been serving the aggregate industry since 1987," said Gartzke. "We are proud to say that almost seventy five percent of the work that we do is repeat business. Customers like NESL have come to rely on us for our innovative design capabilities and our desire to engineer systems that meet their specific needs. Several industry suppliers have come to rely on Steel Systems as their exclusive engineering and installation company in the Mid-Atlantic Region, as well."

Gartzke said that Steel Systems successes include the design and installation of multiple circuit aggregate processing plants, large-scale lime hydrating/load-out facilities, and projects like the new primary plant at Martins. "We can custom design and fabricate screen towers, crusher supports, cold feed systems, product bins, loader and truck fed hoppers, just about anything that our industry would need. We serve quarries, sand plants, concrete and asphalt plants and recycling facilities throughout the region. We also work with portable crushing and screening equipment, rail car unloading/loading facilities, and we custom design and fabricate radial stacking conveyors, stationary conveyors and surge tunnels as well."

Gartzke said that in the case of the Burkholder Plant, Steel Systems worked with the quarry design team for nearly five years, looking at ways to make the best use of the customer's existing equipment, coupled with the latest technology. "We worked together to come up with the innovative design of the entire lay-

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and support steel ourselves, and complete the project with the most appropriate equipment items currently available on the market. "Sometimes that may be an item the customer currently owns, and other times it may actually be an equipment item sold by a competitor," he said. "Whichever piece is most appropriate, that's the piece we want to use. Our name goes on the system when it is completed, and the bottom line is that it must do the job."

"We use the latest in CAD and 3D modeling," said Gartzke. "Our engineering department is able to efficiently and accurately produce drawings ranging from a simple conveyor elevation to an entire plant layout, including all flows and details. When it comes to equipment application and plant evaluation, our engineers can assess the customer's needs and make recommendations on how to accomplish the task, much like we did here with NESL."

"We currently maintain at least two fully-equipped field crews," said Welch. "All of our installers are MSHA trained and certified. Our fabrication work is done in our Quarryville facility where we manufacture all of our conveyors, bins, chutes, equipment support structures and other necessary equipment. With our plant centrally located in our marketing area, we are able to place the equipment at the customer's site quickly and safely. In this way, we are able to get the job done on site in a way that saves our customers time and money. We also make it a point to remain current with OSHA and MSHA standards, and all of our systems are designed to comply with them." For more information on Steel Systems products and services, contact them at 717- 786-1264 or online at www.steelssystems.com.

Martin Limestone, Inc. Unveils New Primary Circuit at Their Burkholder Quarry

Current plans call for road stone to be loaded with front-end loaders from stockpiles replenished by radial stacker. "With the radial stacker being capable of stockpiling material in a 270-degree arc, we can accommodate a total stockpile of about 50,000 tons of material on this side of the plant," said Detweiler. The hi-calcium on the other hand, is tunnel fed from its own stockpile, over to a computerized, self-loading bin and scale unit, that will allow truck drivers to acquire their loads without the need for a loader operator or a weigh master. About one fourth of our production is hi-calcium for cement plants."

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Rick Naranjo, Process Engineer, and also in charge of the Quarry Maintenance department, whose crews were responsible for the electrical and control systems at the new plant, said the plant will soon be fully automated. "We have designed this plant to be controlled through an Allen-Bradley PLC, which will monitor the Allen-Bradley IntelliCenter® Motor Control Center (MCC)", he said. "We wanted to reduce the potential for lightning strike damage, so remote communication is done using fiber optics. All plant control is linked via Ethernet to the operator control room so that we can monitor everything that is going on in the plant."

Galen Rutt, Manager of Quarry Operations for Martin Limestone, Inc. said that he is extremely pleased with the outcome of this project. "This plant offers us the flexibility that we need for our production demands," he said. "We have plenty of production capacity for both road stone and for hi-calcium. We will be able to increase production from this location as future need arises. We put a lot of care and planning into this facility, and I know that it will serve us profitably in the coming years."



A Steel Systems Equipment-fabricated radial stacker deposits screened aggregate onto a stockpile that can grow to an estimated 50,000 tons in size because of the stackers 270-degrees of travel.



Rick Naranjo, Superintendent of Quarry Maintenance (L) and Jeff Detweiler (R) pose for a photograph in front of the recently completed Burkholder Quarry primary crusher.