



**METAL FABRICATION.**



A National Leader in  
**Custom Industrial Metal Fabrication**



### METAL FABRICATION®

A Submerged Scraper Conveyor (SSC) is one of the primary means of removing bottom ash, a critical process that ensures the continued operation of a utility power plant. Ci Metal Fabrication took on the task of fabricating this complicated piece of machinery for one customer and delivered a quality product that exceeded all expectations.

The expert fabricators at Ci Metal knew that this project would be difficult from the start. The 127-foot SSC had to be skewed in order to fit beneath the existing power plant, making its composition much more complex. The length of the SSC created challenges in engineering and designing for the customer—an OEM supplier for the utilities industry—and in fabrication for Ci Metal.

Making the project more complicated was the fact that the highly-modified SSC also had to mate with a transition chute that was squared up with the bottom of the boiler. There were no detail drawings to outline how this should be done, so Ci Metal had to create a solution that would work for the end user. Their solution was designing and fabricating samples of the structural steel supports and plate where the SSC and chute would meet. The samples were provided to the customer during a prefabrication meeting to determine the best option.

After this long customization process, the samples were approved, and the SSC and transition chute were shipped on time. The power plant personnel were amazed by the ease of installation. The transition chute was attached to the furnace bottom, and the skewed sections of the SSC were fitted flawlessly beneath it. The customer was able to complete the installation within the allotted outage span due to the expertly customized components provided to them by Ci Metal Fabrication.

