

R.T. Patterson Company, Inc.

Engineers and Consultants

CLIENT

Sterling Steel Company, LLC
Sterling, IL

PROJECT

New Billet Reheat Furnace

PROJECT SCOPE

Installation of a new Billet Reheat Furnace. Installation of new equipment to receive, transfer, rotate, deliver into and exit from the new furnace and to existing rolling mills. This project will be completed in the 4th Quarter of 2021.

RTP SCOPE OF WORK

RTP accomplished the following:

This new equipment is replacing an aging billet reheat furnace which is the only furnace at the plant. It is being installed without disrupting plant operations except for a planned 21-day outage in 2021. R.T. Patterson Co., Inc. (RTP) presented several options for installing the equipment due very limited available space. A new building between the existing mill building and a high voltage substation was chosen. This location required that electrical equipment and underground utilities had to be reloaded. It also required the removal of one end of the Billet Yard, which is used to store and move billets using an overhead crane on an outside runway. Transition and equipment spanning sections of the Billet Crane Runway required.



RTP SCOPE OF WORK - Continued

RTP provided the cost estimate for this project so the plant could secure funding from their parent company and is assisting in cost tracking. We produced and maintain a total project schedule and provide construction assistance for all discipline. RTP helped Sterling Steel Company, LLC. evaluate and choose the furnace equipment and produced the installation drawings and specifications for the procurement / installation of support equipment and structures. RTP designed the closed loop cooling system for the furnace and evaluated quotes from equipment suppliers and integrators. RTP leads separate and sometimes joint weekly meetings weekly Sterling Steel Company, LLC. Personnel, the furnace manufacturers, equipment vendors, and contractors onsite and via conference calls.

