

# R.T. Patterson Company, Inc.

## Engineers and Consultants

### CLIENT

Worthington Steel Co  
Decatur, Alabama

### PROJECT

Cold Mill Facility

### PROJECT SCOPE

The project was the construction of a new 750,000 square foot steel processing center on a Greenfield site in Decatur, Alabama. The facility is serviced by rail and truck delivery of raw material and shipment of finished product, including a new Pickle Line, Four Stand Tandem Cold Mill, Batch Hydrogen Annealing, Temper Mill, Hot Rolled Slitter, Cold Rolled Slitter and packaging as required for each area. The facility has a production capacity of over 900,000 tons of steel per year.

To expedite the completion of the facility, separate contracts for site improvements, the building shell, and the supply of the major process equipment was employed. Worthington then entered into a Target Price Agreement with a Joint Venture comprised of The Industrial Company (TIC) and R.T. Patterson Co., Inc. covering the design engineering, construction and construction management associated with the installation of the major process lines and support equipment.



### RTP SCOPE OF WORK

RTP provided the following engineering services:

- Updates to the plant general arrangement.
- Detailed planning and layouts for the Tandem and Temper Mill areas.
- Piling and foundations for all process and ancillary equipment, including basements, pits, tunnels, trenches, and floor slabs.
- P&I flow schematics for the hydrogen, nitrogen, natural gas, potable water, mill cooling water, compressed air, slushing oil, waste oil, annealing cooling water, seal water and emulsion dump systems.
- Piping design, plans, sections, and details for the utility and process piping distribution systems, including the cooling tower and tank farm areas.
- Design of process sewers.
- Preparation of piping material specifications, design of pipe supports and typical installation details for piping and instrumentation.
- HVAC flow schematic; design of the ventilation systems for the Tandem and Temper Mill motors, motor room and computer rooms.

**Project Value: \$187.5 Million**