

# R.T. Patterson Company, Inc.

## Engineers and Consultants

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### CLIENT

Stevens Painton/ Mannesmann Demag  
Cleveland, Ohio

### PROJECT

LTV Steel – Cleveland Works  
Slab Caster Facility

### PROJECT SCOPE

The project was to install a twin strand continuous slab casting machine, LMF and associated support facilities. Included in the scope:

- Demolition
- Site preparation
- Renovation of existing mill building
- New caster building
- Twin strand continuous caster
- Ladle Metallurgy facility
- Ladle transfer car
- Two-ladle turret
- Shroud manipulator
- Tundish with cars
- Torch cut-off machines
- Run-out tables
- Weight scales
- Identification system
- Tundish strands and ladle reheat furnace

### PROJECT SCOPE (Cont.)

- Alloy storage and delivery system
- Instrumentation and computerization
- Programmable logic control
- Segment maintenance facility

### RTP SCOPE OF WORK

RTP provided the facility engineering for installation of the project including:

- Field investigations
- General arrangement and layout drawings
- Piling and foundation design and installation drawings for the buildings, line equipment and support facilities
- Structural steel design drawings for buildings, accesses and support facilities
- Architectural design and installation drawings for buildings, support rooms, pulpits, etc.
- Piping design and installation drawings
- Electrical design and installation drawings
- Instrumentation design and installation drawings
- Project management
- Installation specifications
- Project scheduling
- Construction assistance



**Project Value: \$200 Million**