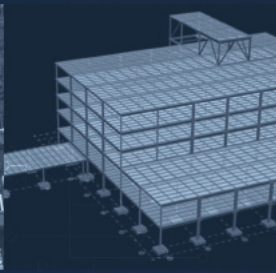


MIDWESTERN AMBULATORY CARE CENTER



Building Owner

A Highly Respected University Hospital System

Location

North Central U.S.

This 5-story, 340,000 sq ft medical building was the first field-bolted SidePlate® project to be constructed in the upper Midwest.

CHALLENGES

- Tall first story heights
- Very poor soil conditions
- Extremely aggressive design and construction schedule

SOLUTIONS

- Stiffer SidePlate moment frames saved 6% in total steel tonnage
- SidePlate's design assistance helped EOR meet the design schedule
- Bolted SidePlate concept saved over 2 weeks of field construction time versus a conventional welded moment frame design

Architect

Studio Five Architects and CannonDesign

Structural Engineer

CannonDesign

General Contractor

McGough

Fabricator

LeJeune Steel Company

Erector

Danny's Construction

FIELD-BOLTED SIDEPLATE[®] MOMENT CONNECTION

For well over 20 years, SidePlate technologies have optimized steel building designs, delivering cost savings and performance. SidePlate connections are designed, they're not a product, and they're built by any steel fabricator. SidePlate connections reduce drift, so our lateral frames use less structural steel (and often fewer joints) than other moment frames and our field-bolted connection eliminates all field-welding. Less steel tonnage, less field labor, and structural optimization at no charge to the design team. How can SidePlate benefit you?

R=3 Beam Assembly



- fillet welds in shop
- short-slotted holes
- no beam section loss

R=3 Column Assembly



- fillet welds in shop (some stitch)
- short-slotted holes
- no column section loss

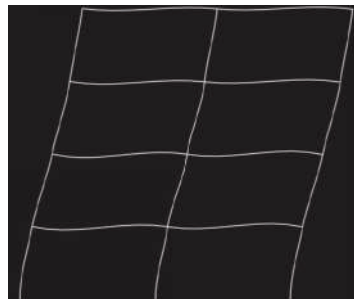
R=3 Completed Connection



- beam is simply lowered into place
- easier to align holes from top
- no shear tab required

Other moment connections

Drift = 2.35"



SidePlate[®] moment connections

Drift = 1.65"

