

Reinforcement

Civil Engineering

Making steel and concrete act together.

Bars only work where they are, and only if concrete surrounds them.

Placing

Cover set by exposure and fire, not by eye

Spacers hold bars off the formwork

Bars go where the tension is

Links resist shear and hold bars in place

Never heat or re-bend a bar to fit

Continuity

Anchorage length develops the bar force

Lap length transfers force between bars

Stagger laps rather than stacking them

Bend radii limited by bar size and grade

Congestion stops concrete, so plan pours

Educational reference. Cover, lap and anchorage lengths are code values. Detailing is work for a qualified engineer.