

# Bridge Design Details 7.6 August 2025

## Column Reinforcement

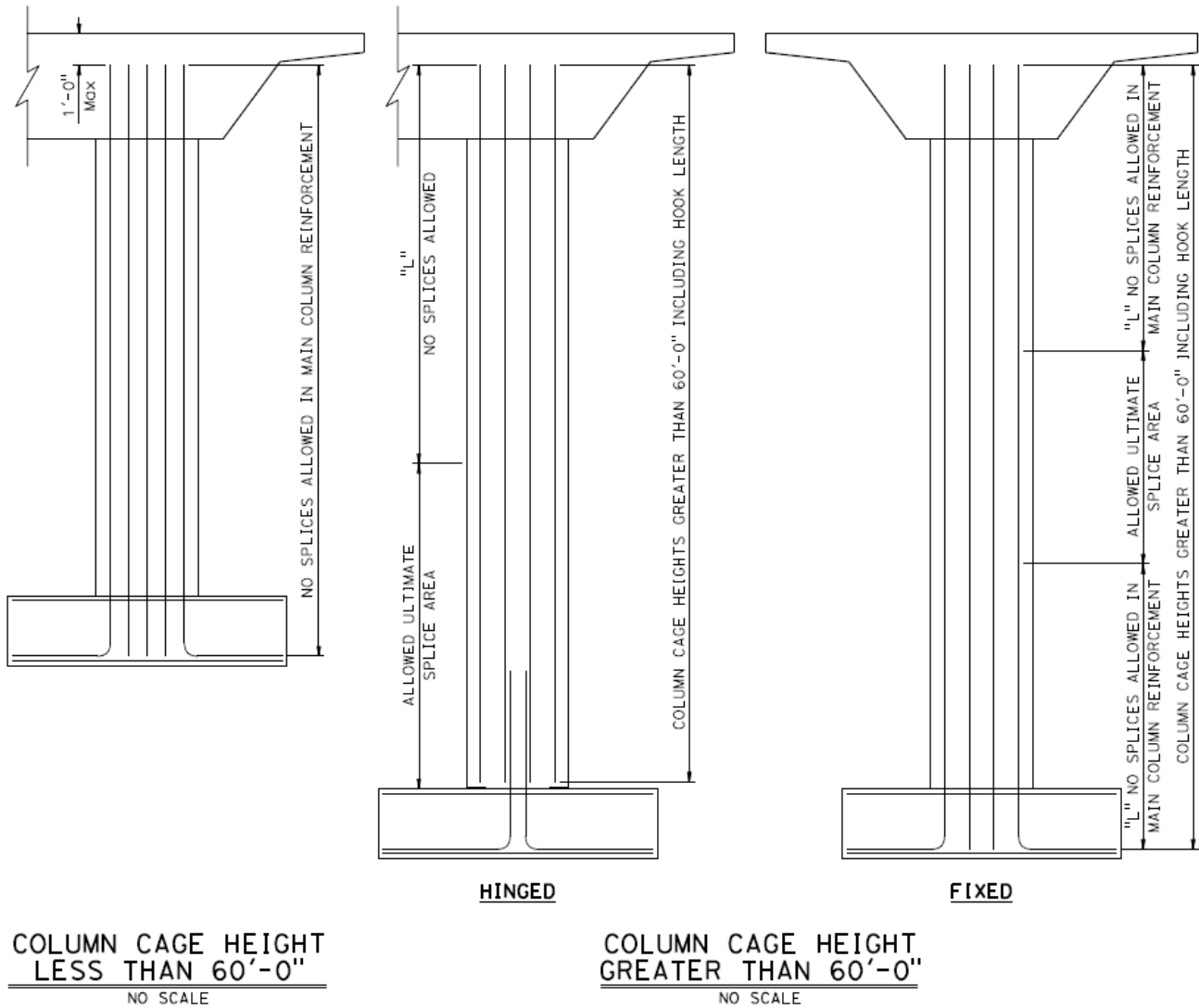


Figure 7.6.1 Column Cage Details



Notes:

1. "L" is to be determined by Engineer.
2. All hoops to have an "ultimate splice". Hoops shall extend full length of column cage.
3. Vertical reinforcement shall be developed fully into bent cap, avoid using hooks at the top of column. Headed reinforcement may be used as an alternative.
4. Total length of unspliced column reinforcement shall not exceed 60 feet.

## Hooks on Column Reinforcement

When necessary, column longitudinal reinforcement may be hooked into a bent cap or footing; sufficient space should be provided so that hooks do not interfere with other reinforcement or prestressing tendons. For basic hook development length ( $L_{dh}$ ), see *AASHTO LRFD Bridge Design Specifications*: 5.10.8.2.4a Basic Hook Development Length. Reinforcement must also satisfy the development requirements and Joint Shear that is detailed in the current *Seismic Design Criteria 2.1*.

If reinforcement is not hooked and the development length ( $L_d$ ) is not available, T-headed bar reinforcement should be used. For T-headed bar details, see *Memo to Designers*: 20-21 Seismic Requirements for Headed Bar Reinforcement.