



Bridge Design Details 8.13 January 2023

Barrier Railing Modification for Deck Overlays

When overlays are placed on bridges as part of the original construction, the standard plan heights of Concrete Barriers are adjusted as follows:

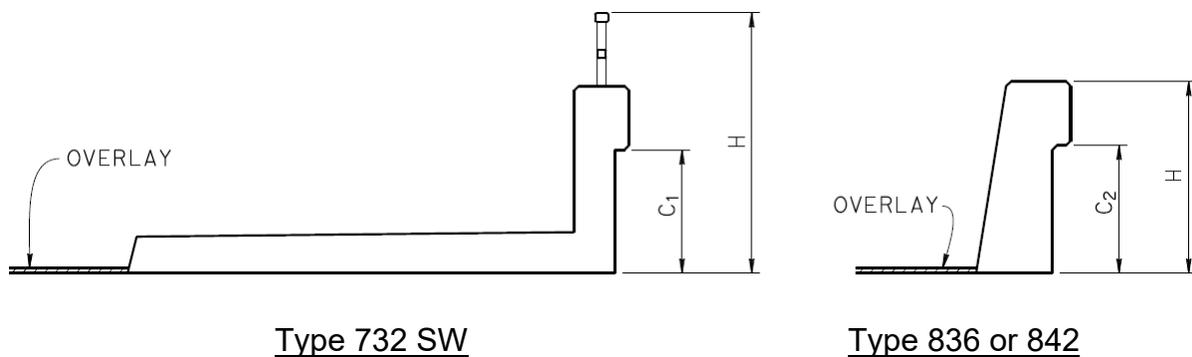


Figure 8.13.1 Bridge Railing Modification

Notes:

1. For Type 732SW, 75SW, 76SW, 85SW and other sidewalk barriers increase overall “H” by increasing vertical height “C₁”. Minimum sidewalk thickness in standard details is measured from top of roadway surface (top of overlay).
2. For Types 836 and 842, increase overall “H” by increasing vertical height “C₂”.
3. Show “C₁” or “C₂” on bridge plans when overlay surfacing is required on structure.
4. For standard curb barriers (e.g., ST-75, ST-76, ST-20S, ST-70, Type 85, Type 86H) curb height varies based on cross slope and overlay thickness.
5. Do not adjust barrier height for future overlay thickness.

Overall Thickness	Total Adjustment
Up to 1½”	Standard H + 1½”
1½” to 3”	Standard H + 3” *

*Height adjustment greater than 3” will require a revised design for barrier reinforcement.

Table 8.13.1 Railing Modification.