



# Bridge Design Details 4.1 October 2019

## Deck Contours

A DECK CONTOURS sheet shall be included in the contract plans for all new structures. As a rule, deck contours should not be included for bridge decks that are to match an existing structure profile or cross-slope, such as a widening or deck replacement.

## Plan

1. Place the deck contours at the top of the sheet and orient it in the same direction as the PLAN view shown on the GENERAL PLAN sheet.
2. Show North arrow.
3. The preferred scale is 1" = 20'. Small structures may be shown at maximum 1" = 10'. Do not fill up the sheet with smaller scales.
4. If the bridge is long, and continuation is needed, identify with match line(s). Match lines are often used on a single sheet for longer bridges. Using match lines does not necessarily mean there will be additional sheets.
5. Extend contours 10 feet beyond the edge of deck and 10 feet beyond the Beginning/End of Bridge (BB/EB), end of wingwall, or approach slab, whichever is farthest.
6. Dimension distances from alignment to both edges of deck.
7. Verify that the deck contours are drawn correctly. Spot check them in several places along the alignment, including at BB/EB, the end of approach slabs, drain inlets, the low point/high point of the structure, and a few other random locations.
8. For structures that are to receive a deck overlay such as HMA or Polyester Concrete Overlay, the contours shall be drawn at the top of the concrete deck. A note shall be included to indicate the location of the contours.

Example: **Contours are shown at top of concrete deck. Grades have been lowered 1" below the Profile Grade for polyester concrete overlay.**

9. Note contour interval and that camber is not included.
10. Label alignment, stations, edges of deck, and centerlines of abutments and bents. Do not include curve or other alignment data.
11. Show wingwall and retaining wall layout lines.



12. If the super elevation changes within the bridge, approach slab, or retaining wall limits, a SUPERELEVATION DIAGRAM shall be included.
13. The GENERAL NOTES and QUANTITIES may be placed on this sheet when space is not available on the GENERAL PLAN sheet.