Title: NEW STANDARD SHEET 606-18, “TRANSITION BETWEEN BOX BEAM MEDIAN BARRIER AND SINGLE OR DOUBLE BOX BEAM GUIDE RAIL”

SUPERSEDED BY EB 20-014
EFFECTIVE MAY 1, 2020

ADMINISTRATIVE INFORMATION:

- Effective Date: This Engineering Bulletin (EB) is effective beginning with projects submitted for letting on or after May 1, 2020.
- Superseded Issuances: No issuances are superseded.
- Disposition of Issued Materials: The sheet issued by this EB will be incorporated into the Standard Sheets Book that will be effective on May 1, 2020.

PURPOSE: To issue a new standard sheet.

TECHNICAL INFORMATION:

- The details provided for the transition between a median box beam and two roadside box beam guide rails should be considered an acceptable mean of making that transition for traffic moving either direction on either side of the barrier system.
- The detail provided for the transition plug between median box beam and a single 6x6 box beam may be considered an acceptable mean of making the transition for traffic moving either direction on either side of the barrier. Note that there is a transition detail shown on 606-25 that is easier to fabricate. However, that transition is not to be used where traffic is moving in a direction that would expose it to the potential to snag on the step in the transition splice plates.
- The use of either of these transitions within a run will require adjusting the post spacing. The “plug” adds an extra 2-3/4” to 3” to the length between posts. The “sleeve” adds 36” to the distance between posts. As this would increase the normal post spacing at the splice to 9’, a post is included under the “sleeve” transition to reduce the post spacing to 4’-6” for the adjoining spaces.
- Any height differences between the roadside box beam and the median box beam should be accommodated by transitioning the posts heights for one rail length on either side of the transition piece.
- For estimating and payment purposes, the transitions should be considered part of the length of the median box beam run.

IMPLEMENTATION:

- New Standard Sheet 606-18 will be incorporated into the Standard Sheet book that will be effective on May 1, 2020.


BACKGROUND: Periodically, designers have needed transitions between box beam median barrier and either single or double box beam guide rail, but no standard details for such transitions were available. These standard details have been developed and provided to reduce design effort.
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